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1 Parâmetros de Simulação

1.1 CpMdPd

Tabela 1: CpMdPd

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	0.5
volumeMinPenalty	2
volumeWeight	0.3
energyMinPerc	0.1
energyMinPenalty	2
energyWeight	0.7
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

Tabela 2: CpMdPi

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	0.5
volumeMinPenalty	2
volumeWeight	1
energyMinPerc	0.1
energyMinPenalty	2
energyWeight	1
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

Tabela 3: CpMiPd

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	0.3
volumeMinPenalty	2
volumeWeight	0.3
energyMinPerc	0.3
energyMinPenalty	2
energyWeight	0.7
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

Tabela 4: CpMiPi

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	0.3
volumeMinPenalty	2
volumeWeight	1
energyMinPerc	0.3
energyMinPenalty	2
energyWeight	1
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

Tabela 5: SpPd

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	999.9
volumeMinPenalty	1
volumeWeight	0.3
energyMinPerc	999.9
energyMinPenalty	1
energyWeight	0.7
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

Tabela 6: SpPi

Parâmetro	Valor
subsystemsFile	subsystems_Projeto.txt
stationsFile	Hidreletricas_Projeto_ProdFixed.txt
gplanFile	hidroSaida_10.txt
simMethod	R
maxSearchIterations	2500
maxMcIterations	256
initialMaxPercentage	0.275
decrementPercentage	0.75
minPercentage	0.1
minFitnessDecrement	0.0001
volumeMinPerc	999.9
volumeMinPenalty	1
volumeWeight	1
energyMinPerc	999.9
energyMinPenalty	1
energyWeight	1
calcTransmission	1
ompMaxThreads	system=32,params=32
useCriticalPeriods	1
qtyRndStations	0
searchedStationsIds	115,111,112,113,114,97,98,95,93,90,86,91,92,74,76,71,72,73,77,78,82
searchedSubsystemsIds	2

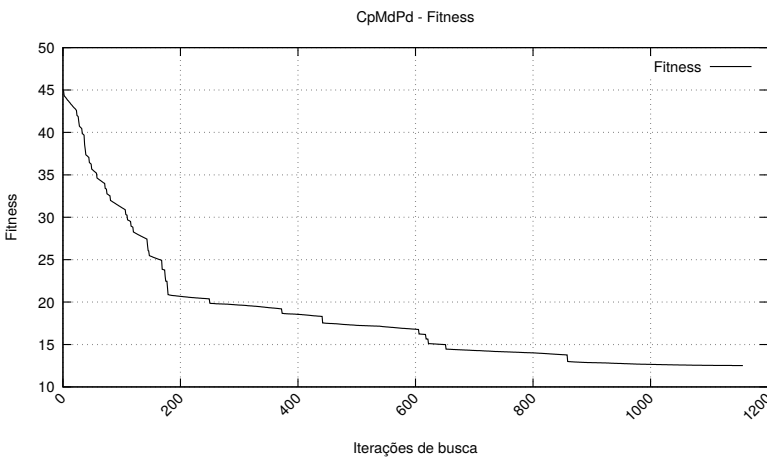
2 Status de Simulação

Tabela 7: GPlan Table

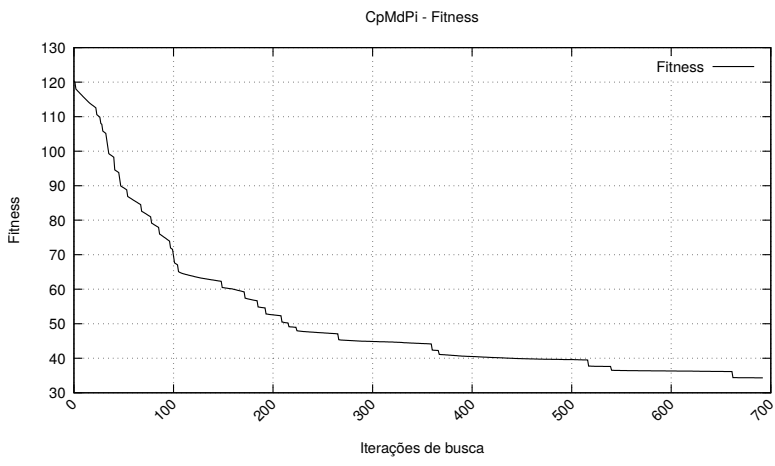
Nome	Iterações	Tempo
CpMdPd	1157	0m32.815s
CpMdPi	692	0m18.845s
CpMiPd	1743	0m49.054s
CpMiPi	1306	0m35.198s
SpPd	916	0m25.199s
SpPi	1216	0m33.788s

3 Sistema

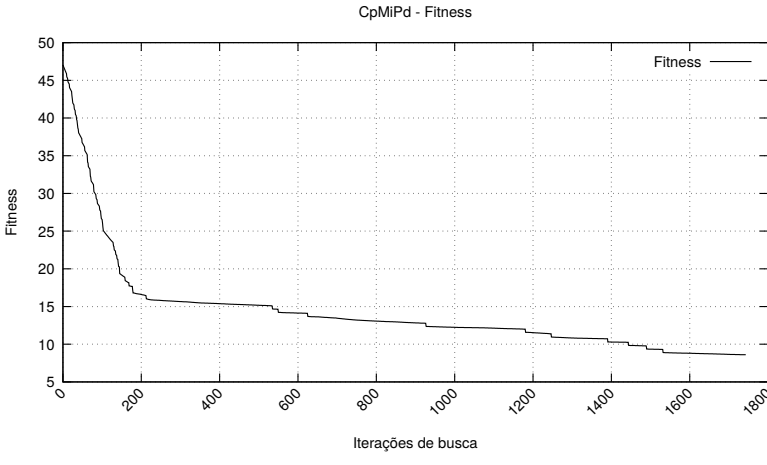
3.1 Fitness



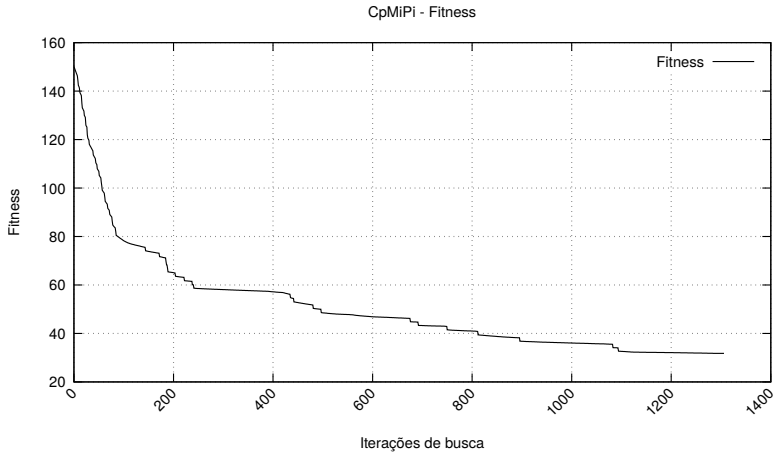
(a) CpMdPd



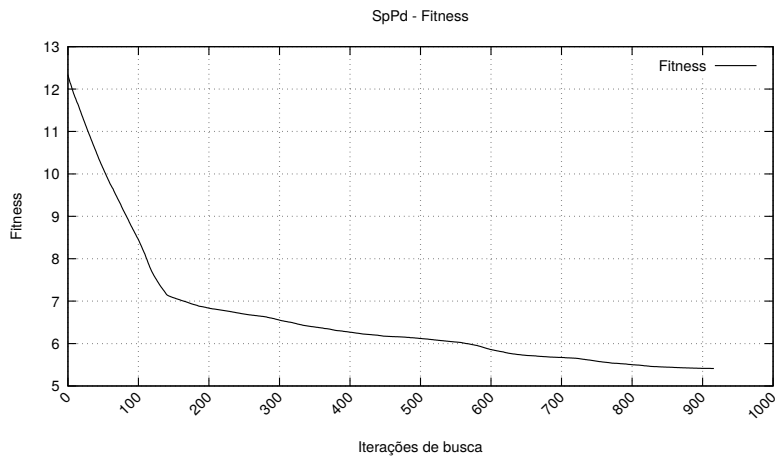
(b) CpMdPi



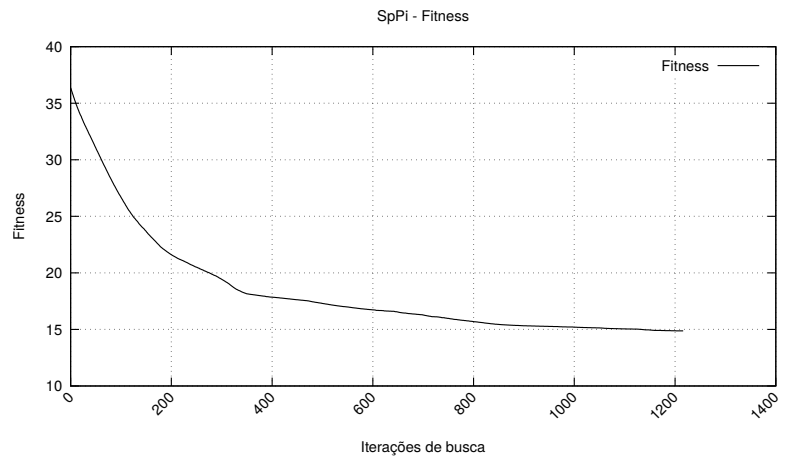
(a) CpMiPd



(b) CpMiPi



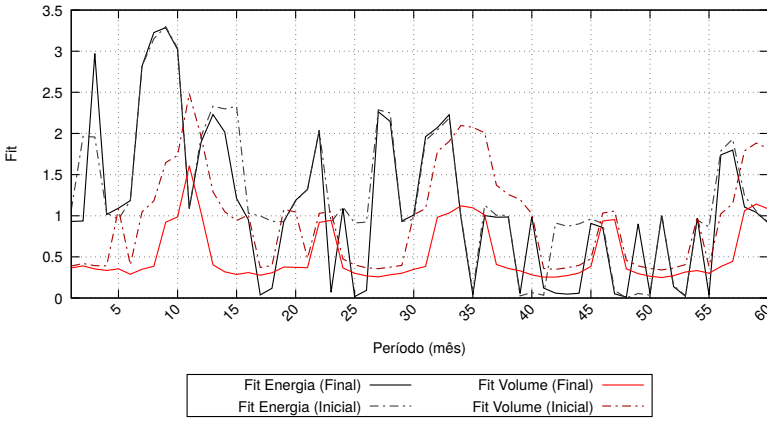
(a) SpPd



(b) SpPi

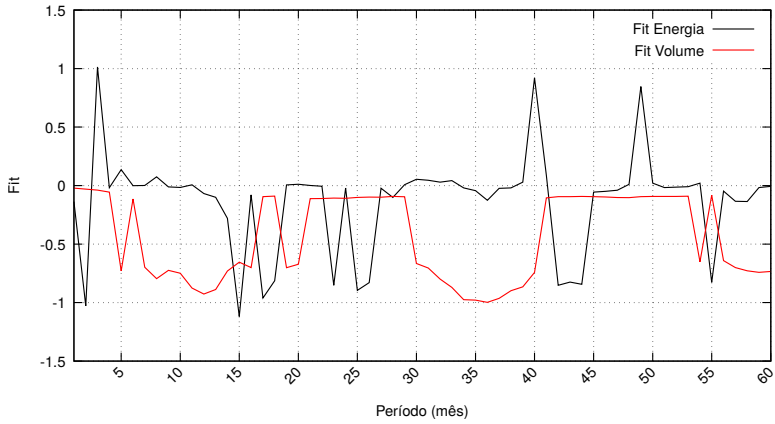
3.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



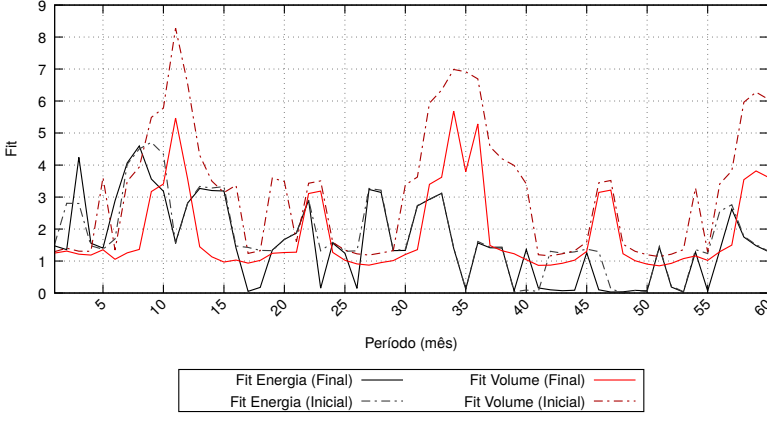
(a) CpMdPd

CpMdPd - Fit - Diferença



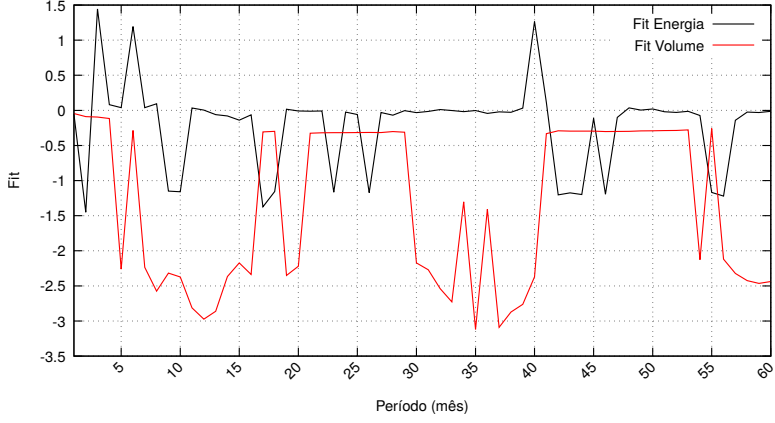
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



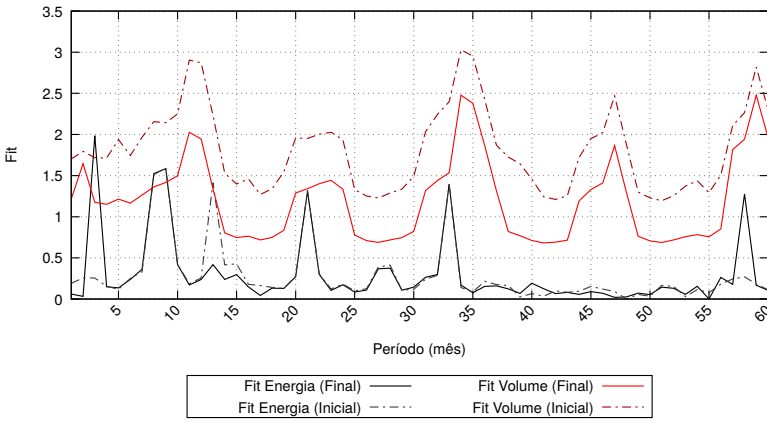
(a) CpMdPi

CpMdPi - Fit - Diferença



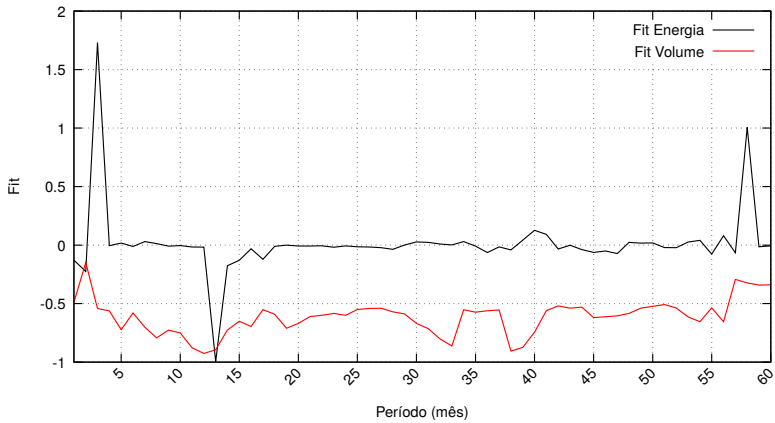
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



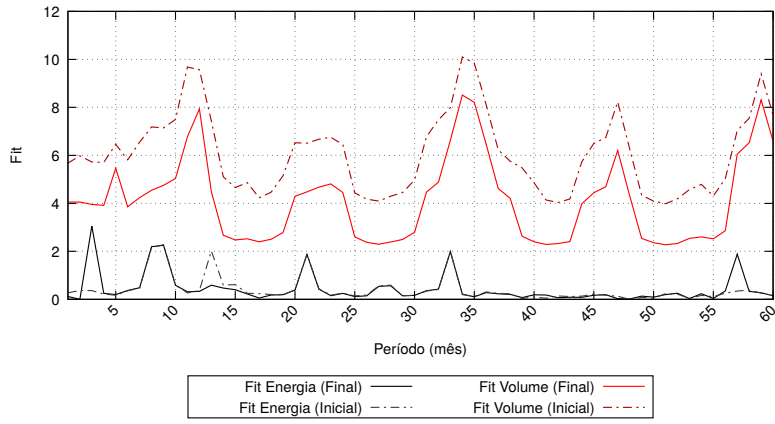
(a) CpMiPd

CpMiPd - Fit - Diferença



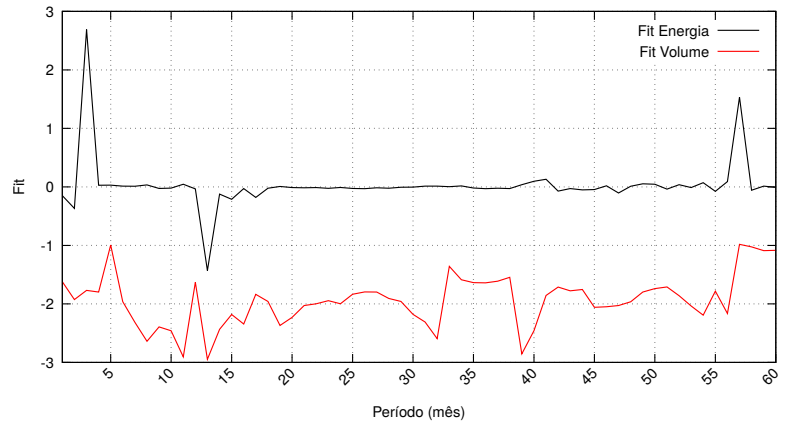
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



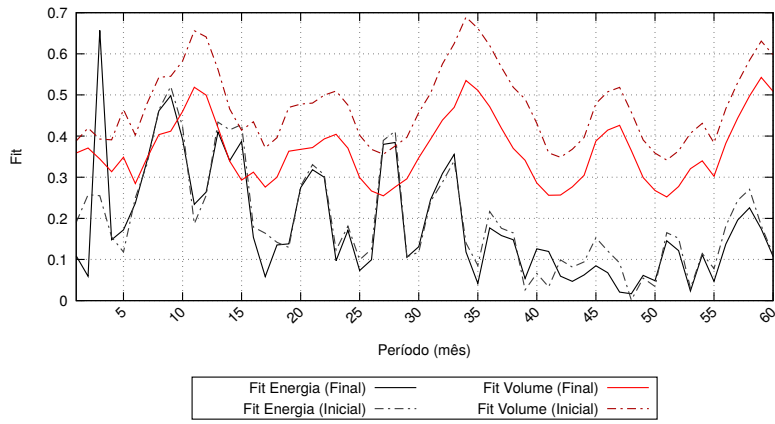
(a) CpMiPi

CpMiPi - Fit - Diferença



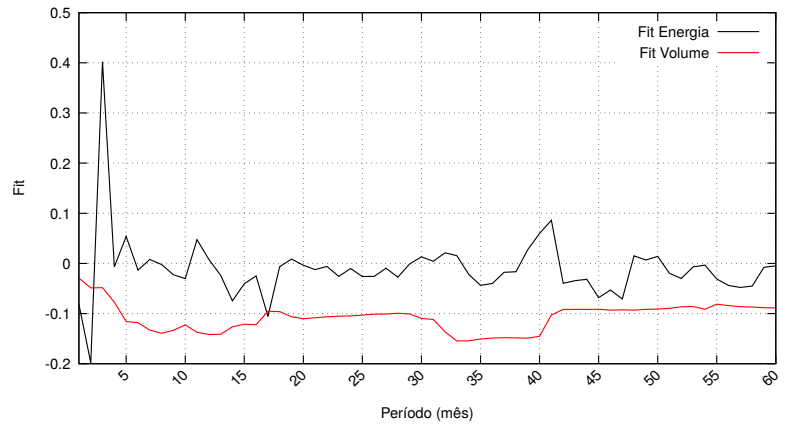
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



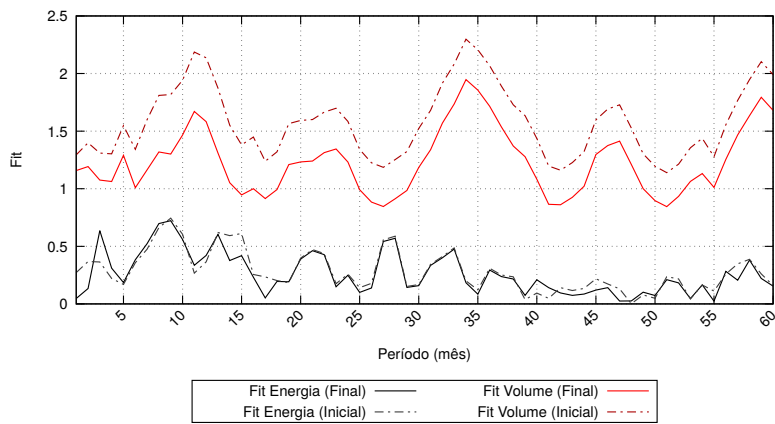
(a) SpPd

SpPd - Fit - Diferença



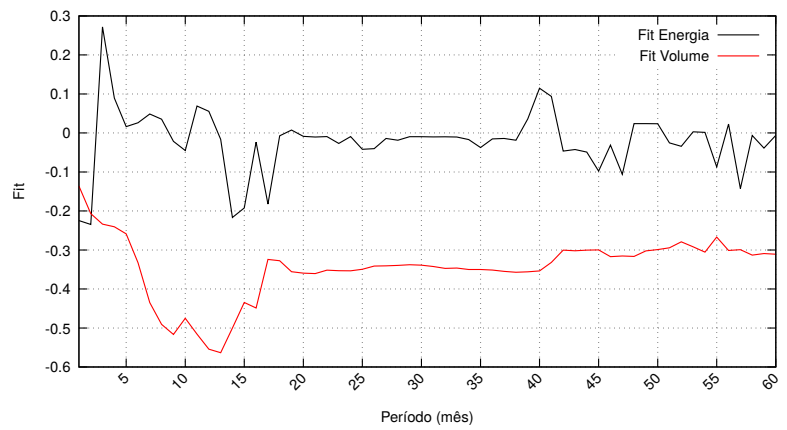
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



(a) SpPi

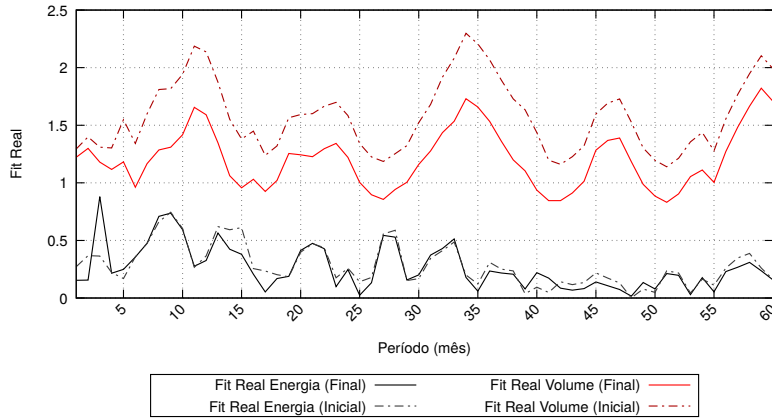
SpPi - Fit - Diferença



(b) SpPi

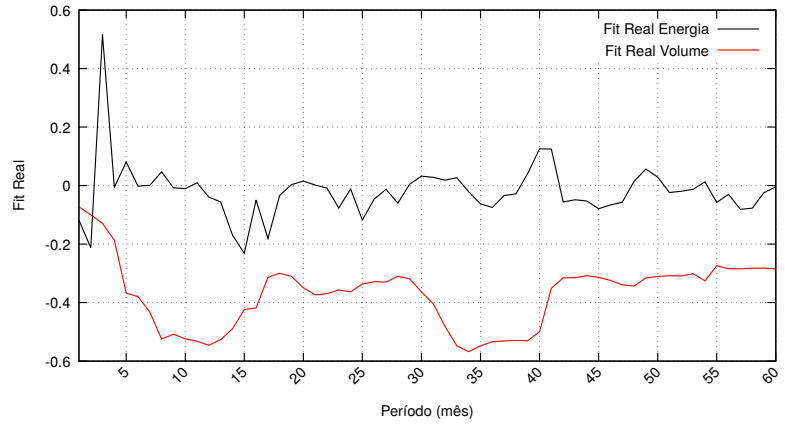
3.3 Energia/Volume RealFit

CpMdPd - Real Fit - Plano Inicial x Plano Final



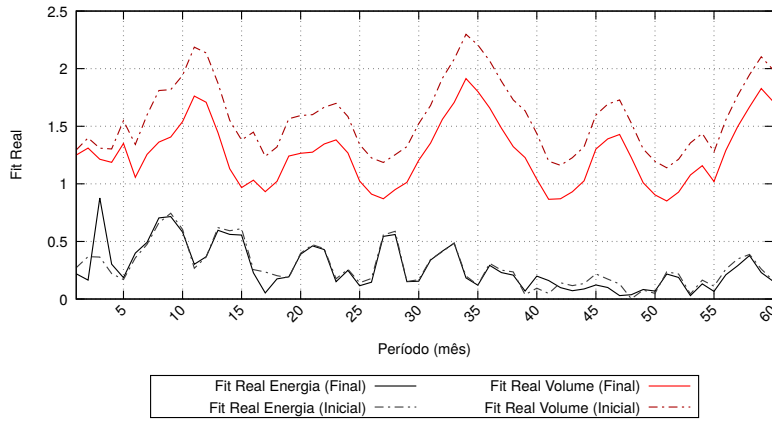
(a) CpMdPd

CpMdPd - Real Fit - Diferença



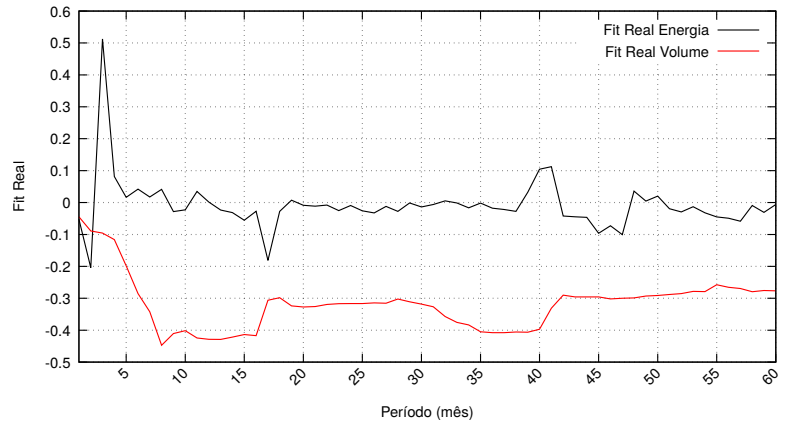
(b) CpMdPd

CpMdPi - Real Fit - Plano Inicial x Plano Final



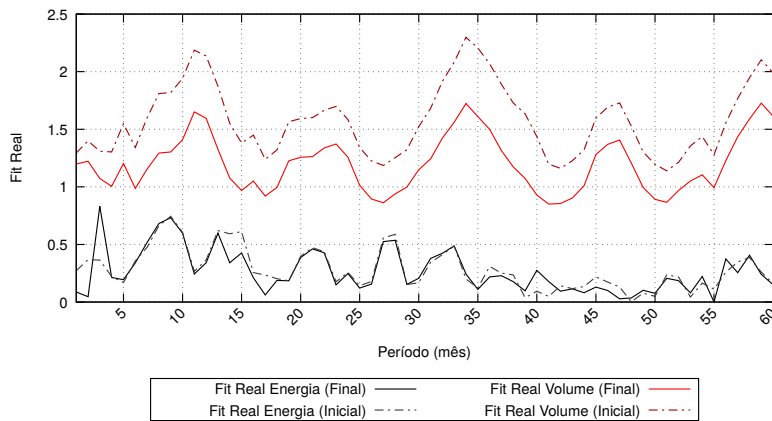
(a) CpMdPi

CpMdPi - Real Fit - Diferença



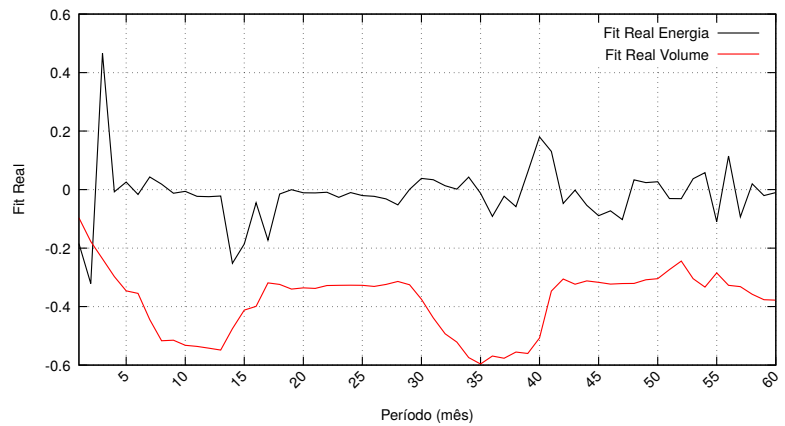
(b) CpMdPi

CpMiPd - Real Fit - Plano Inicial x Plano Final



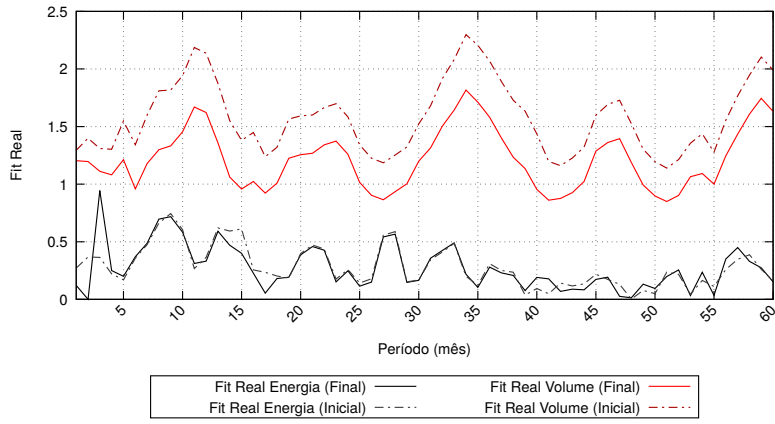
(a) CpMiPd

CpMiPd - Real Fit - Diferença



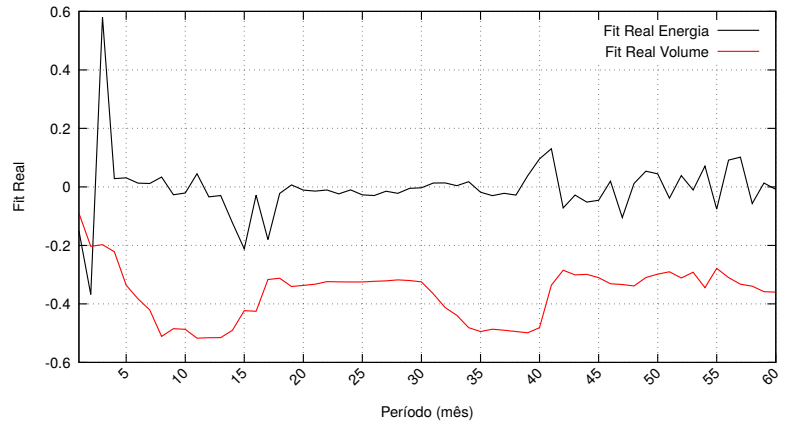
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



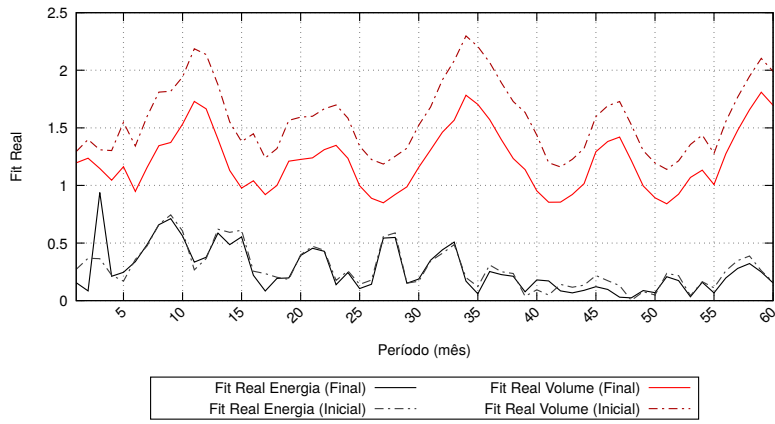
(a) CpMiPi

CpMiPi - Real Fit - Diferença



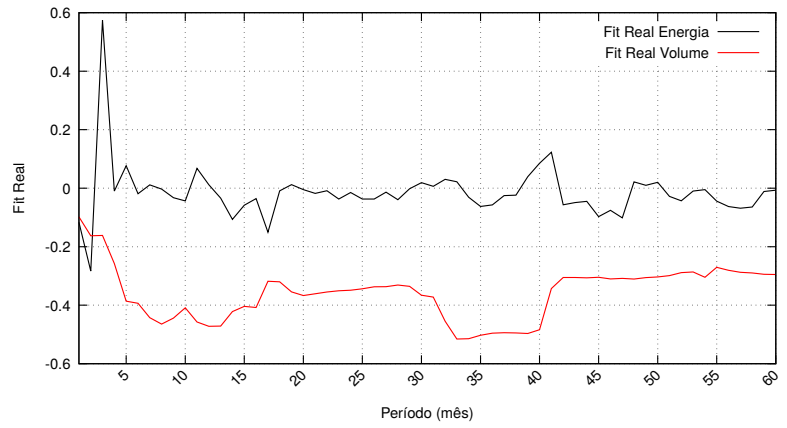
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



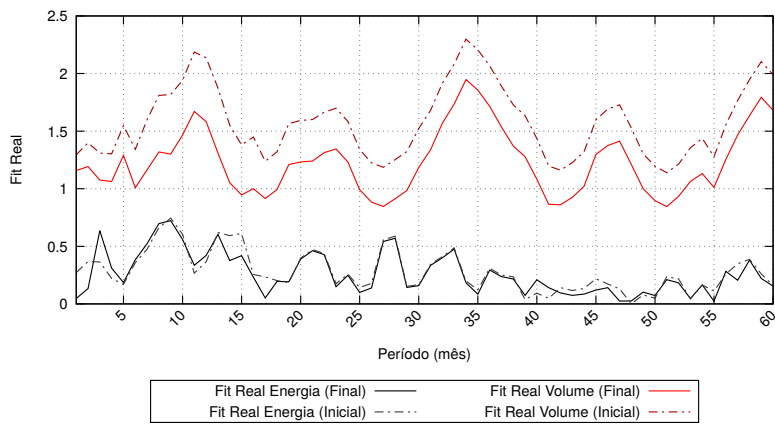
(a) SpPd

SpPd - Real Fit - Diferença



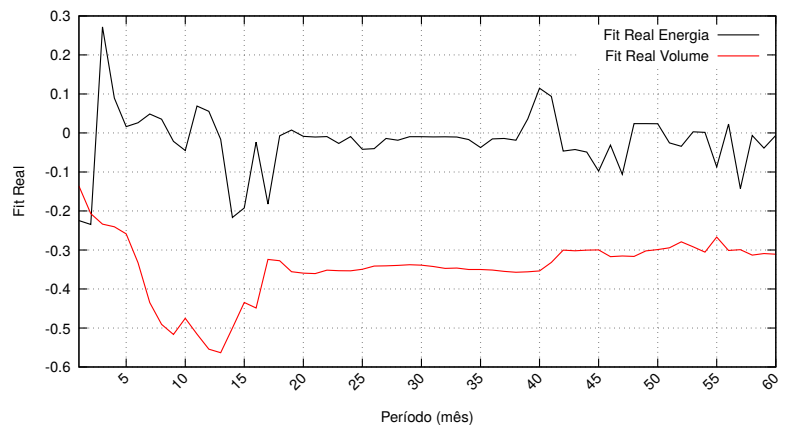
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

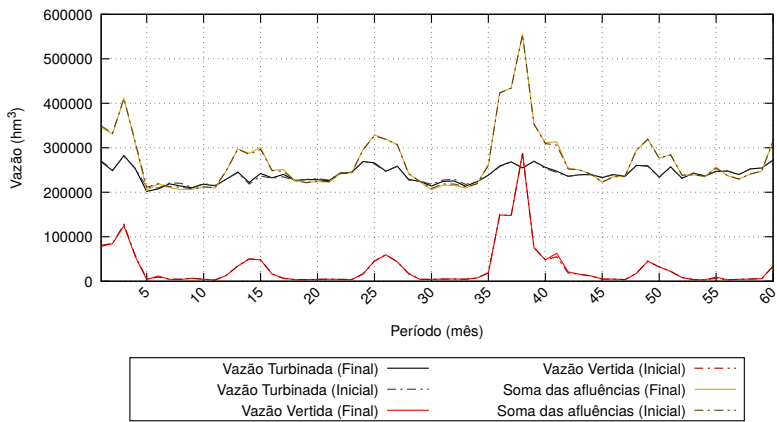
SpPi - Real Fit - Diferença



(b) SpPi

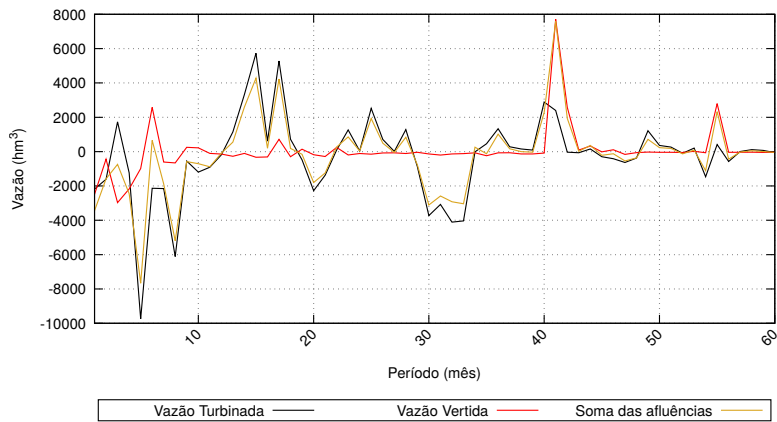
3.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



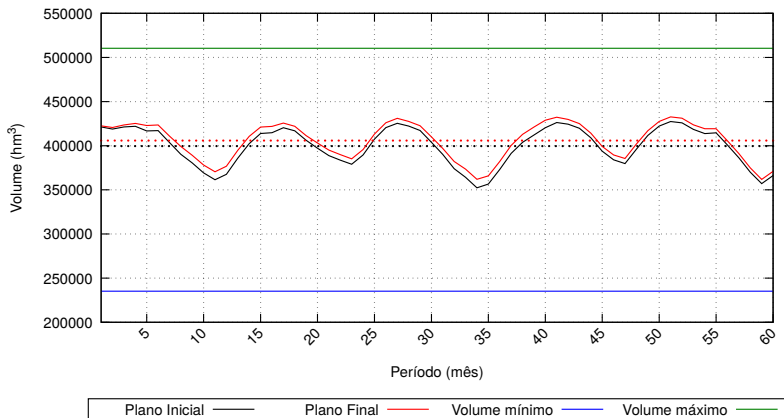
(a) CpMdPd

CpMdPd - Vazão - Diferença



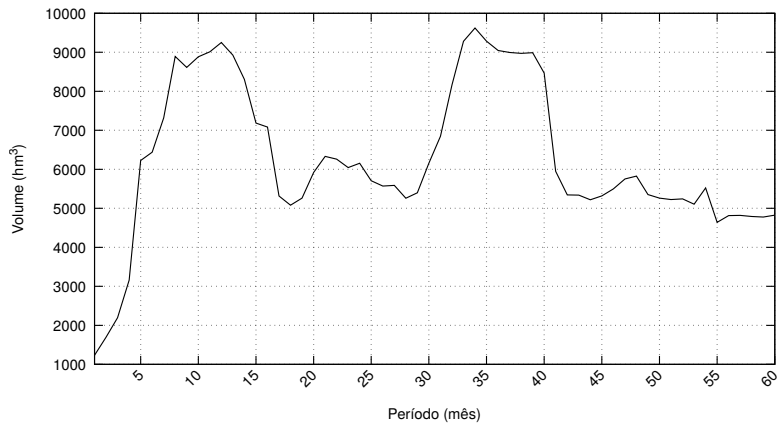
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



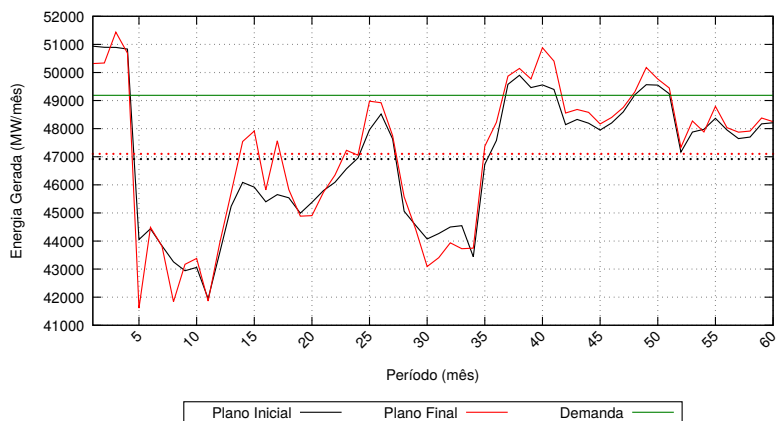
(a) CpMdPd

CpMdPd - Volume - Diferença



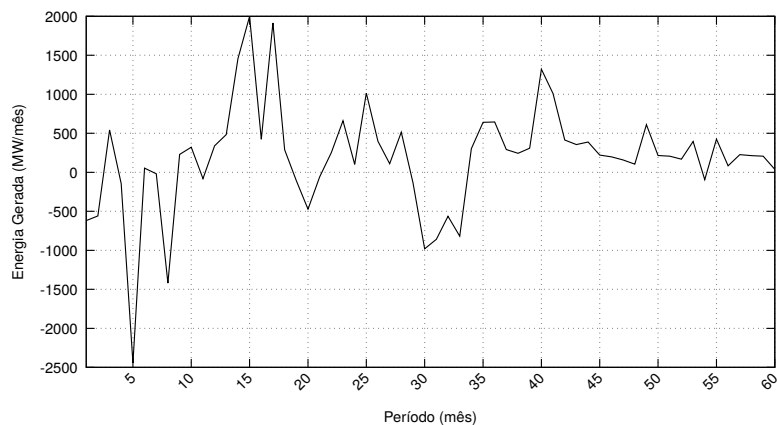
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

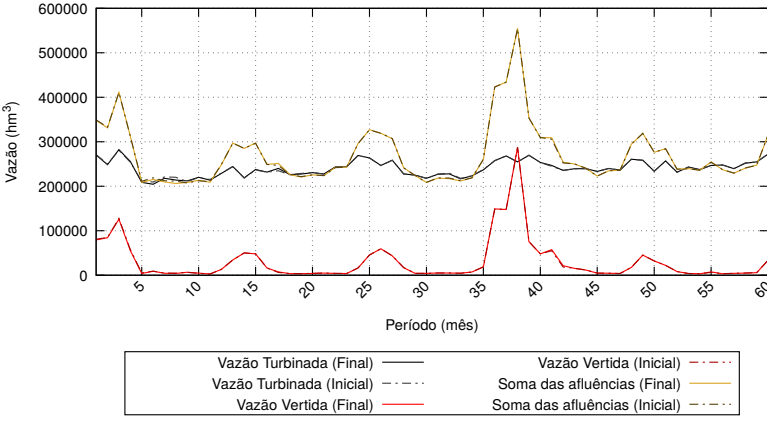
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

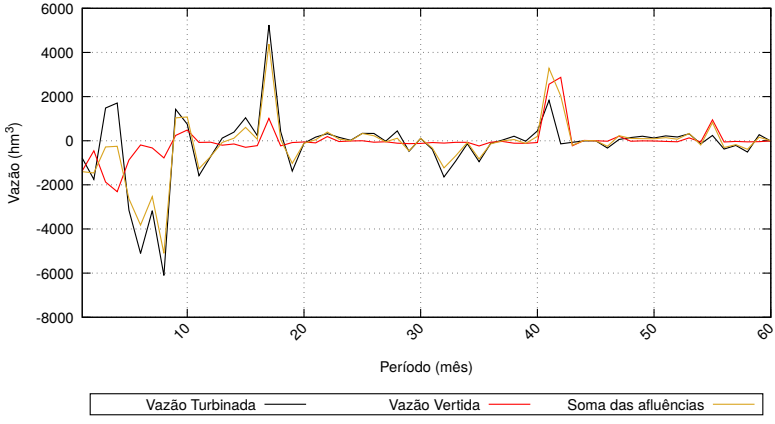
3.5 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



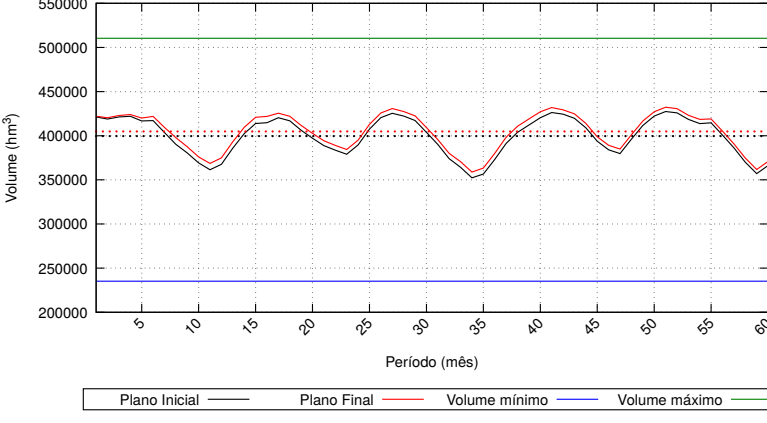
(a) CpMdPi

CpMdPi - Vazão - Diferença



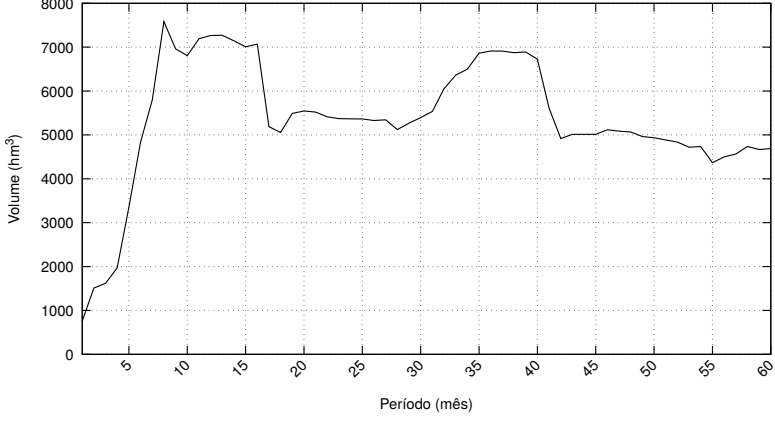
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



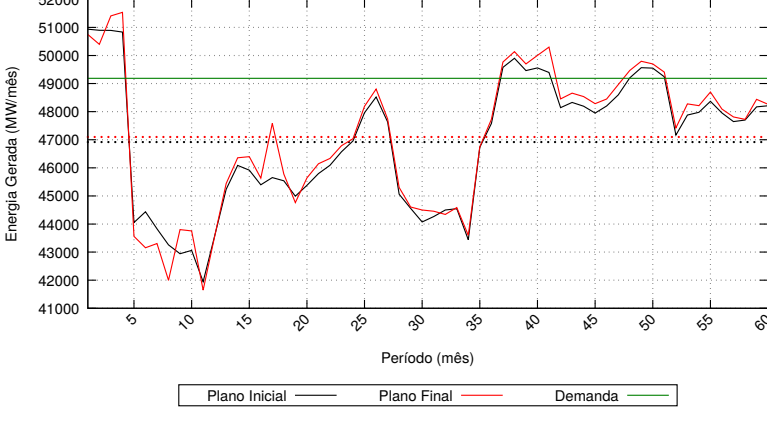
(a) CpMdPi

CpMdPi - Volume - Diferença



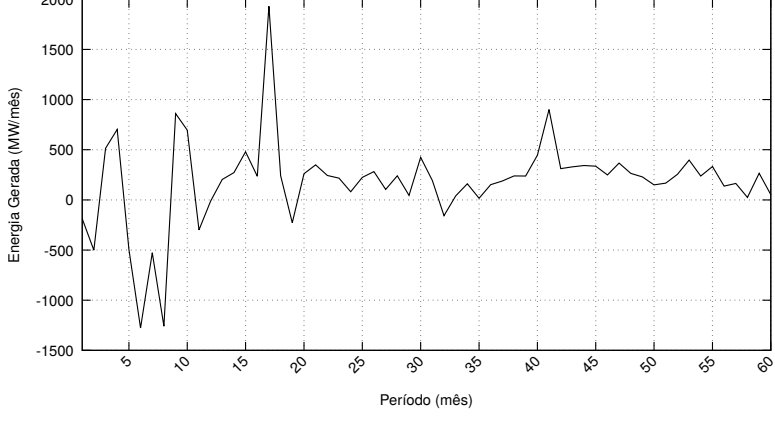
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

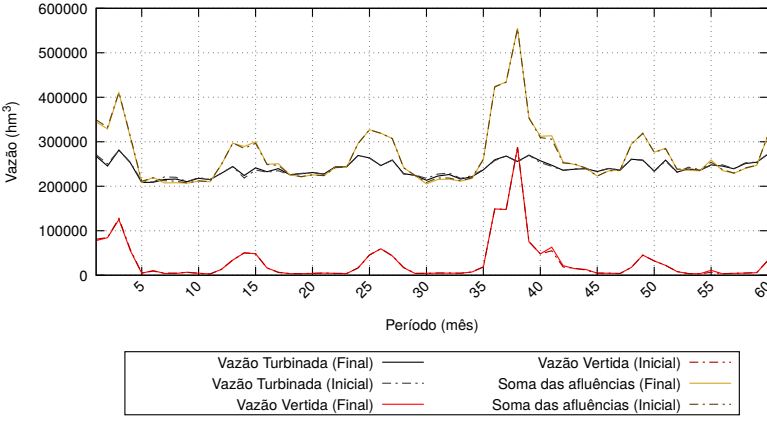
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

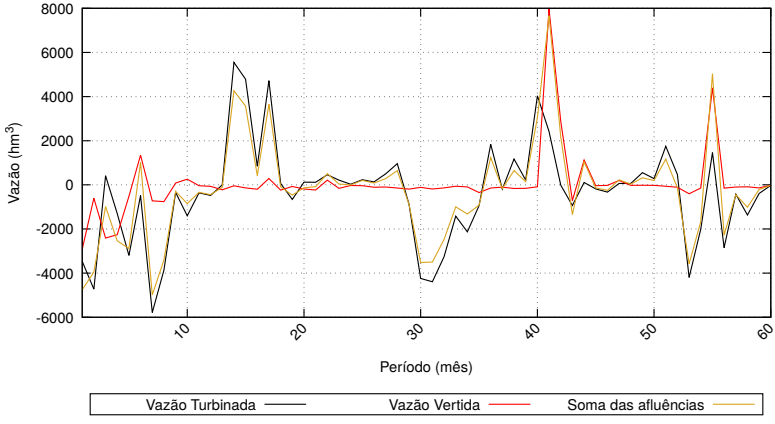
3.6 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



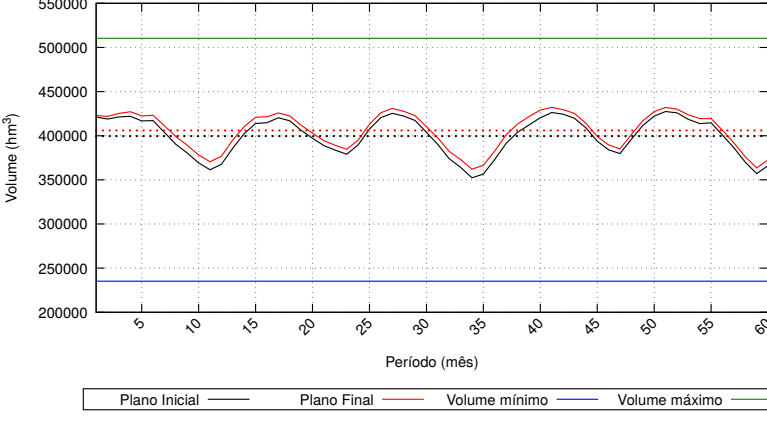
(a) CpMiPd

CpMiPd - Vazão - Diferença



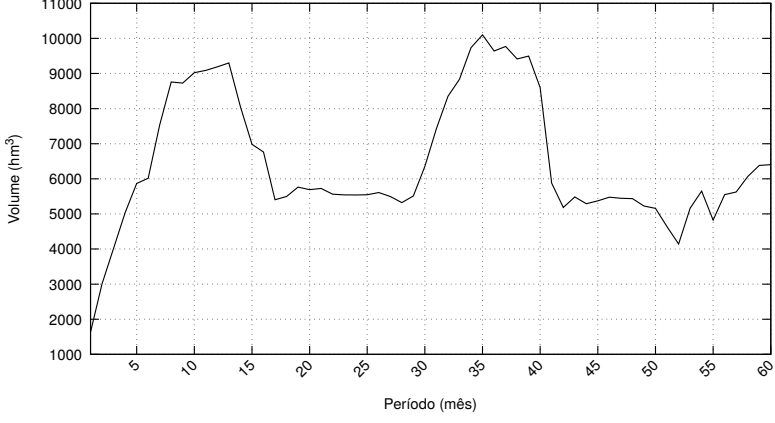
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



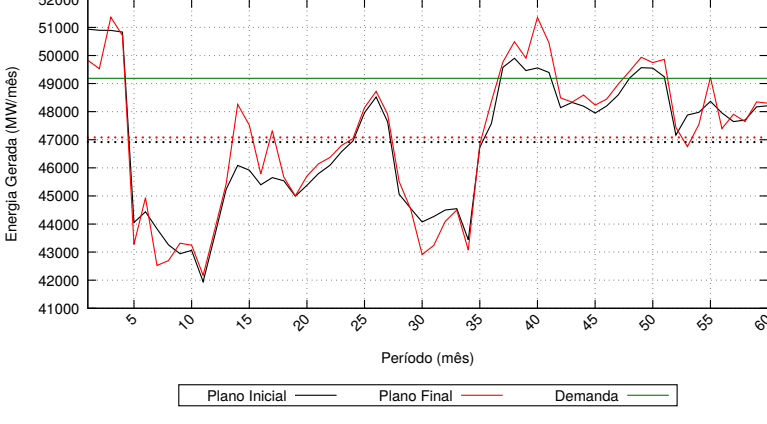
(a) CpMiPd

CpMiPd - Volume - Diferença



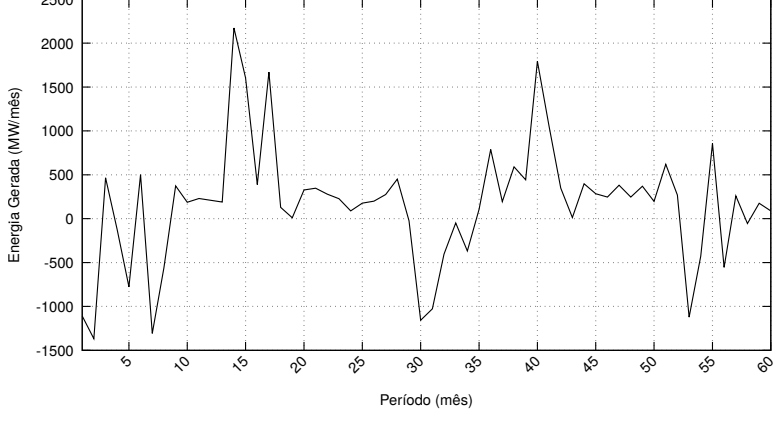
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

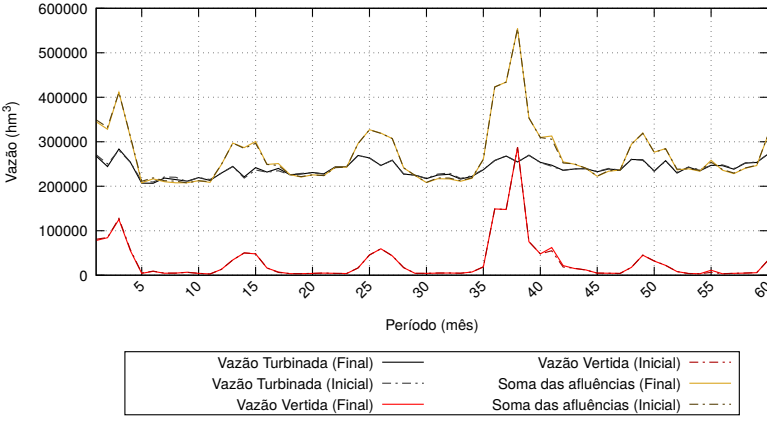
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

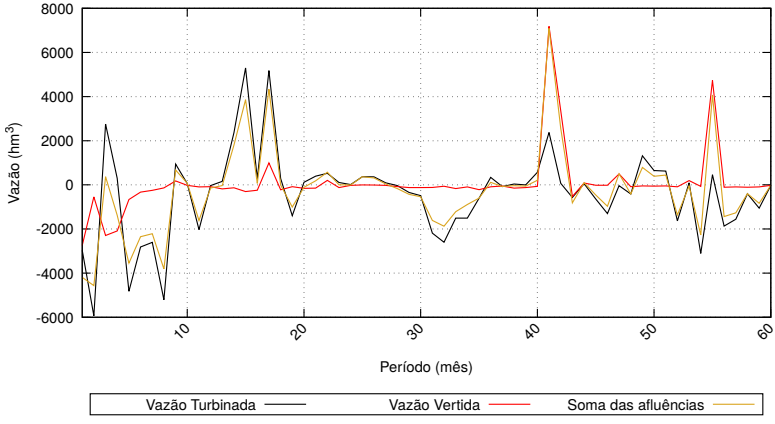
3.7 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



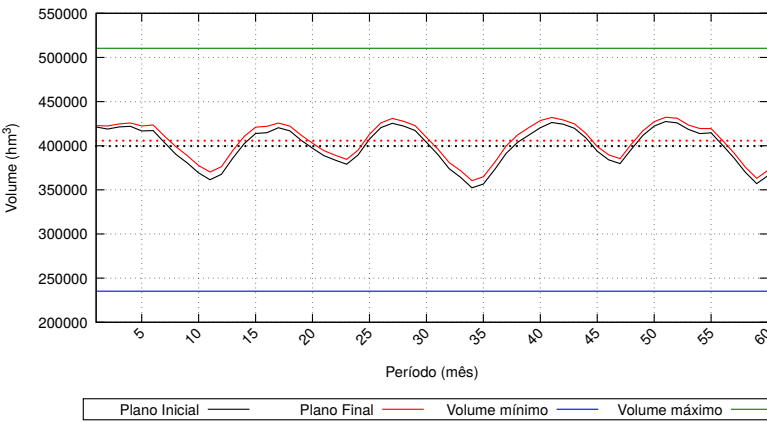
(a) CpMiPi

CpMiPi - Vazão - Diferença



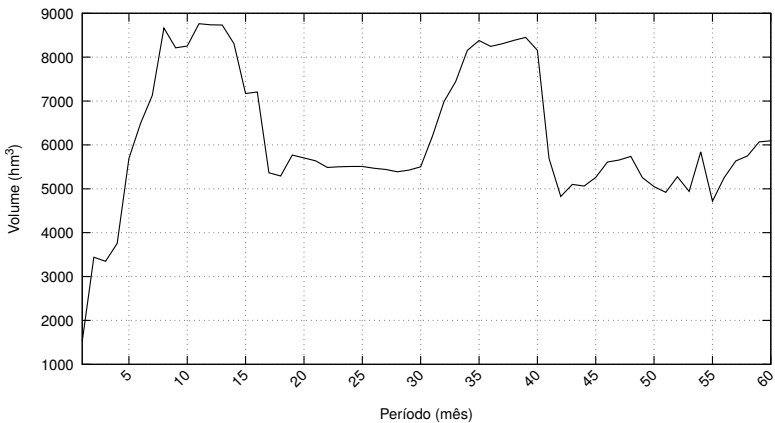
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



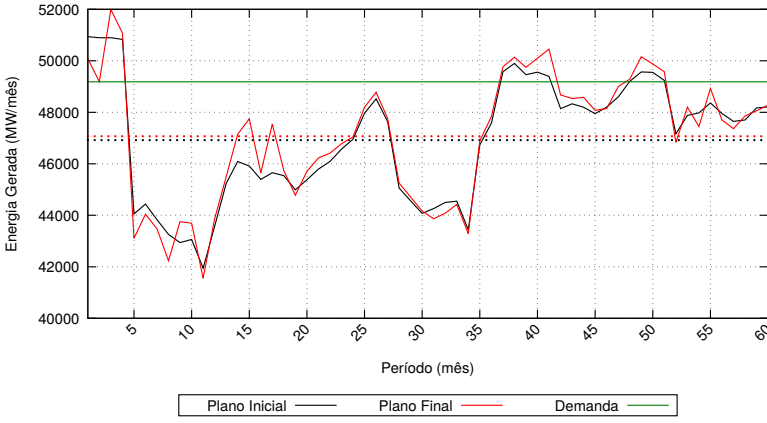
(a) CpMiPi

CpMiPi - Volume - Diferença



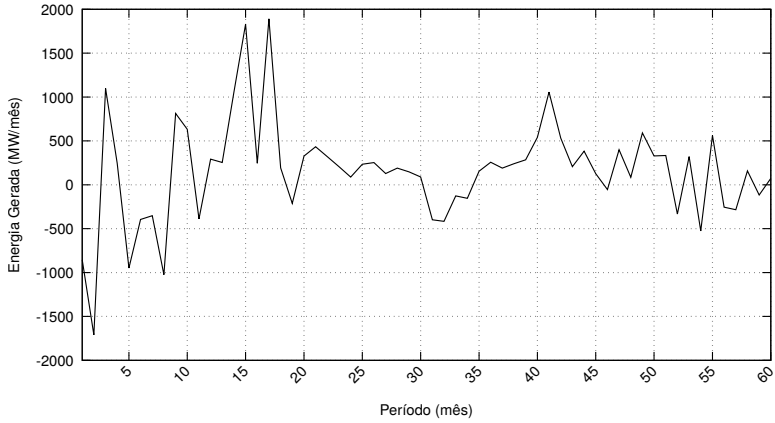
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

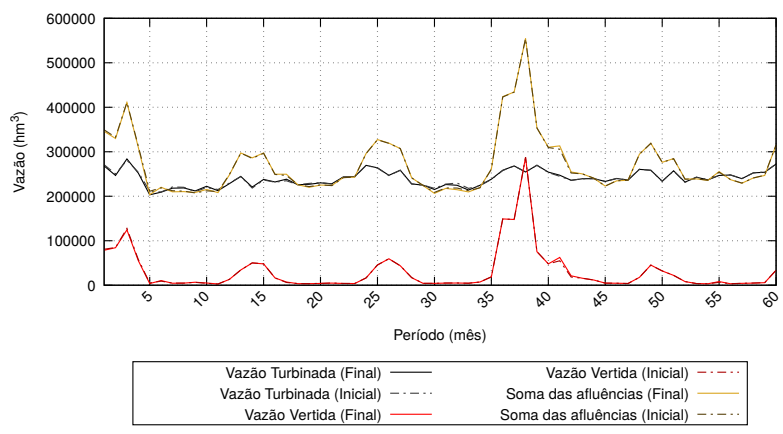
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

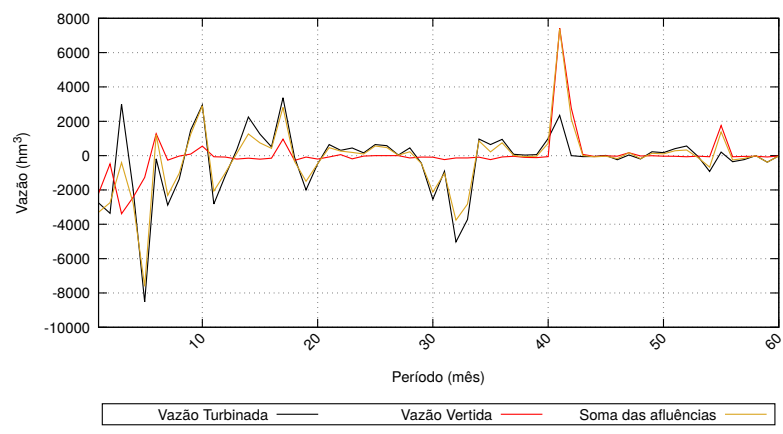
3.8 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



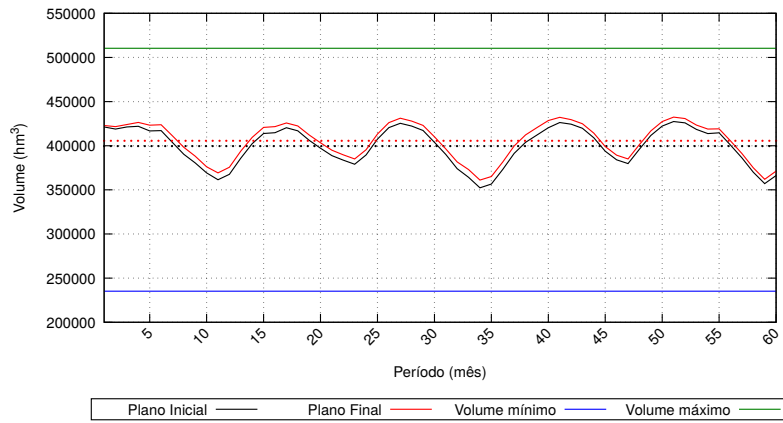
(a) SpPd

SpPd - Vazão - Diferença



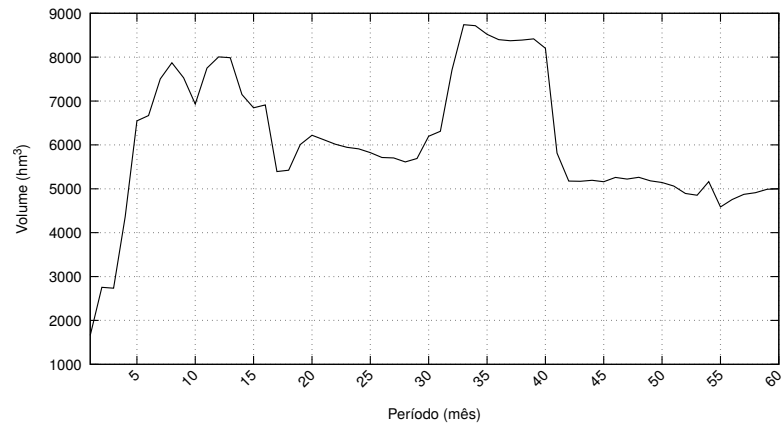
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



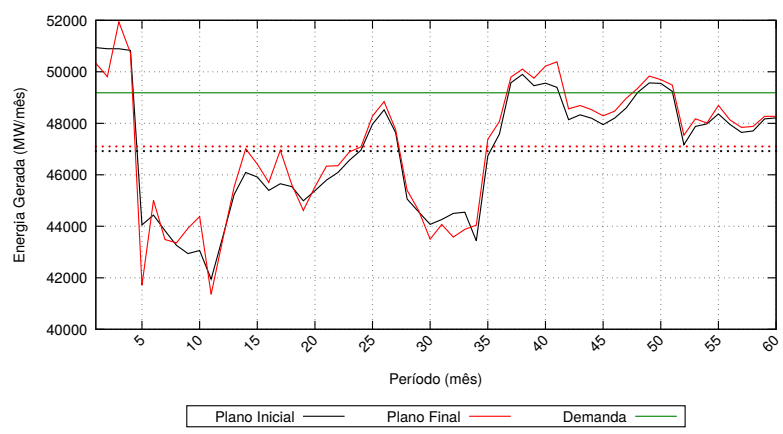
(a) SpPd

SpPd - Volume - Diferença



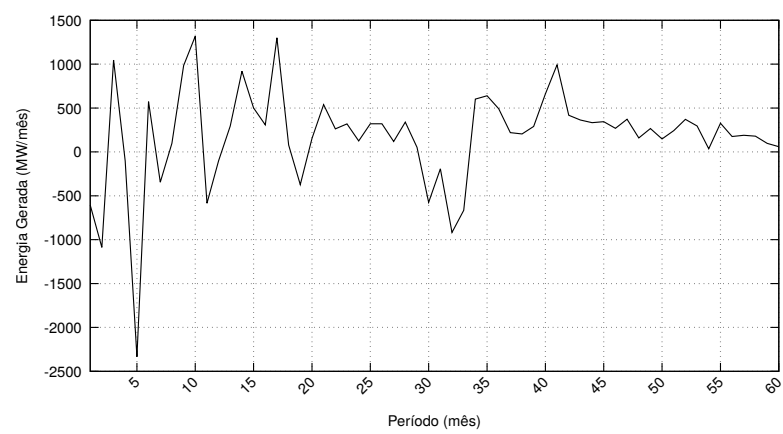
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



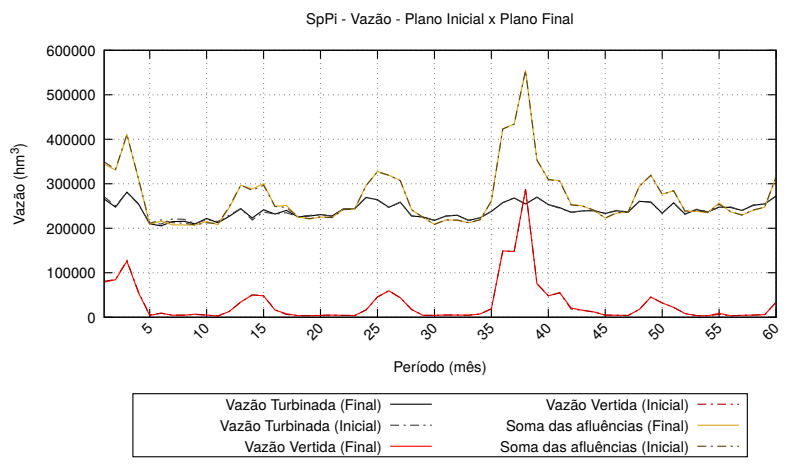
(a) SpPd

SpPd - Energia Gerada - Diferença

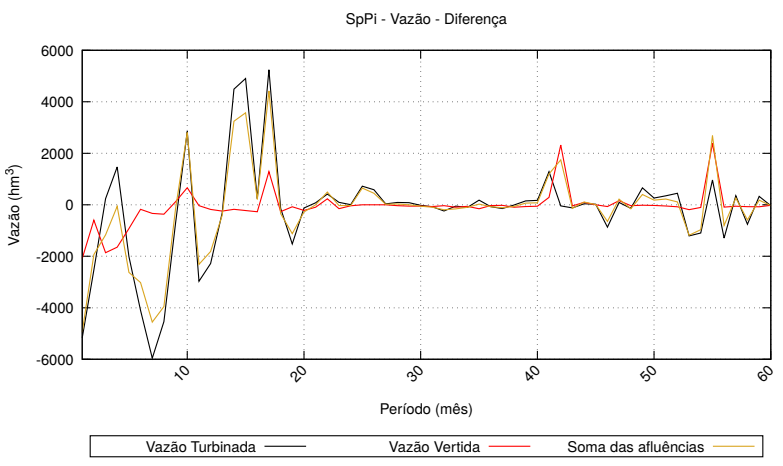


(b) SpPd

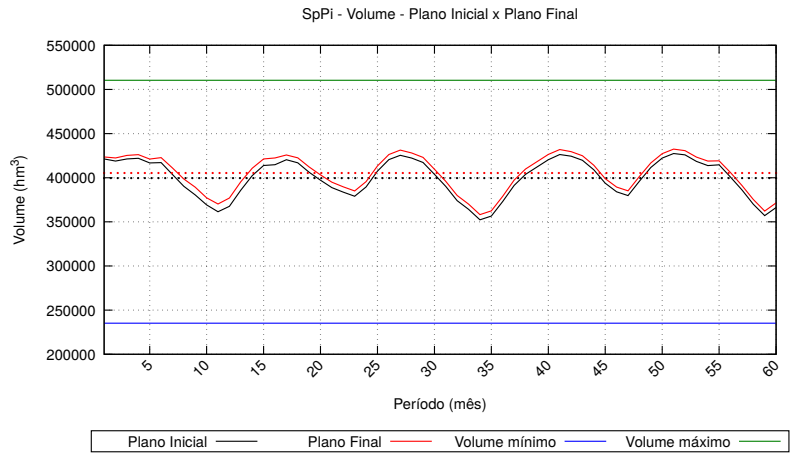
3.9 Resultados - SpPi



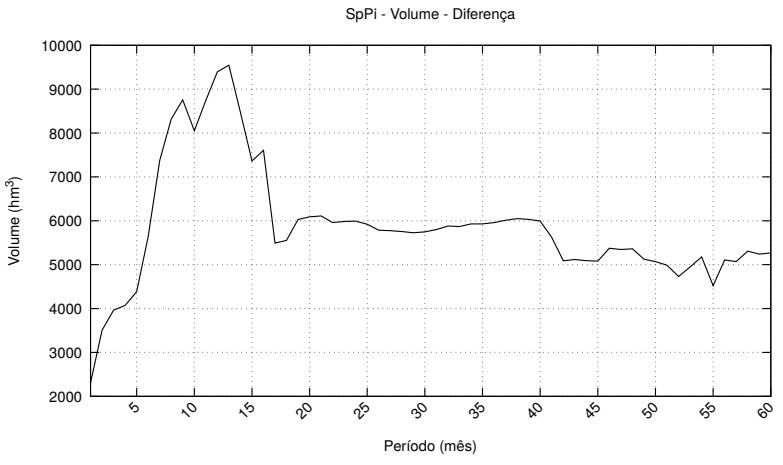
(a) SpPi



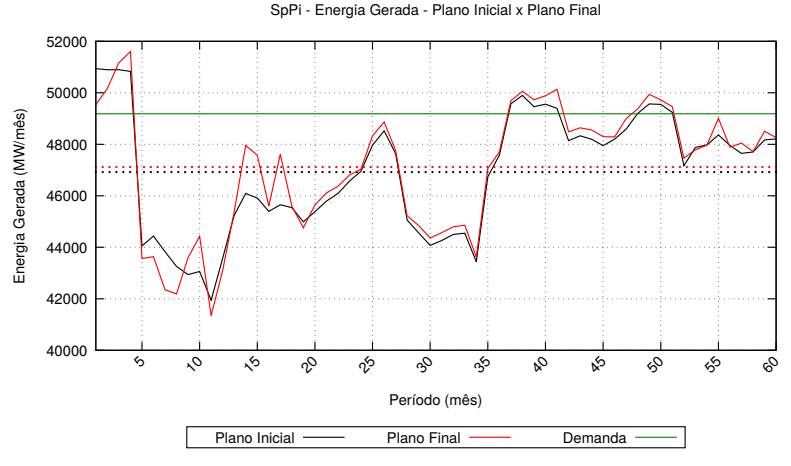
(b) SpPi



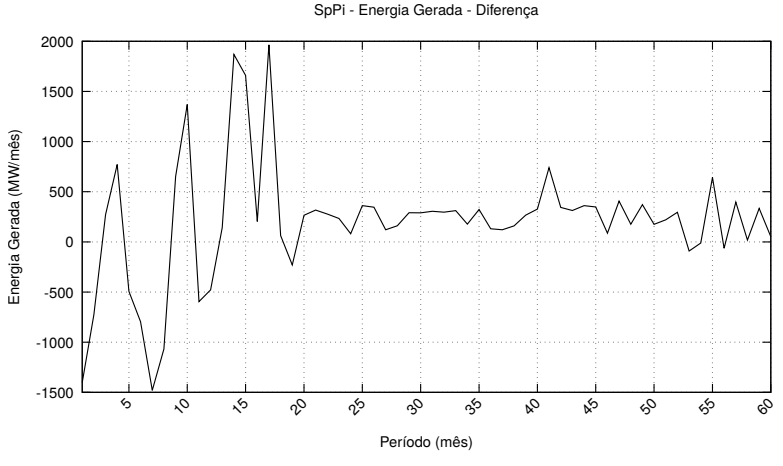
(a) SpPi



(b) SpPi



(a) SpPi

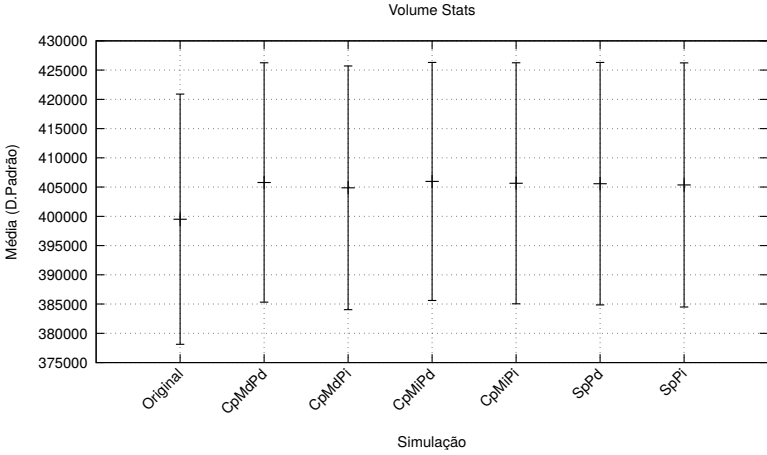


(b) SpPi

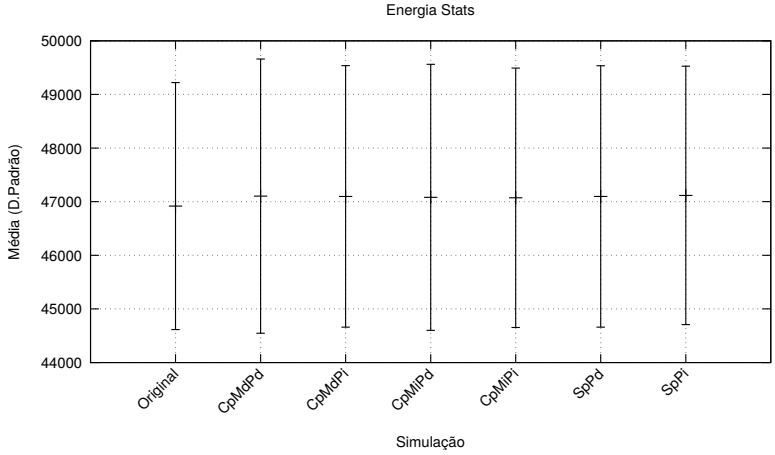
3.10 GPlan Stats

Tabela 8: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	399507.82311	21387.87190	46917.86493	2303.33052
CpMdPd	405787.25662	20458.03119	47103.40089	2557.15200
CpMdPi	404874.65590	20832.20475	47098.60536	2438.80066
CpMiPd	405963.56066	20352.29908	47081.35921	2481.59065
CpMiPi	405656.06885	20600.98553	47072.30258	2418.96455
SpPd	405582.26207	20728.64295	47098.72895	2437.78312
SpPi	405366.92195	20876.05637	47117.47191	2409.58885



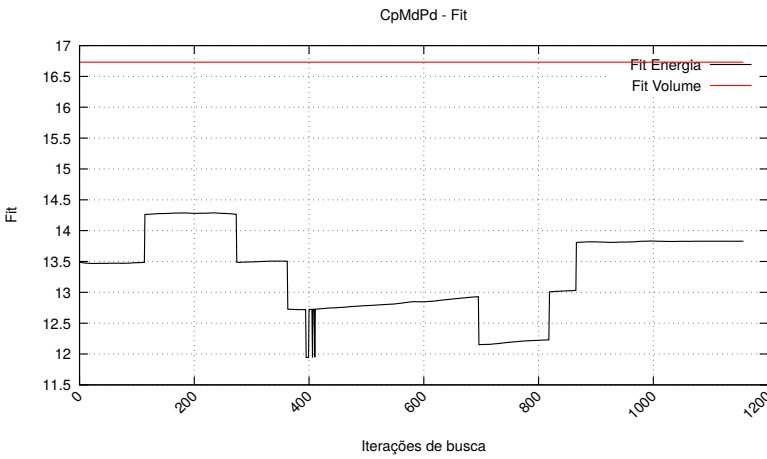
(a) Volume



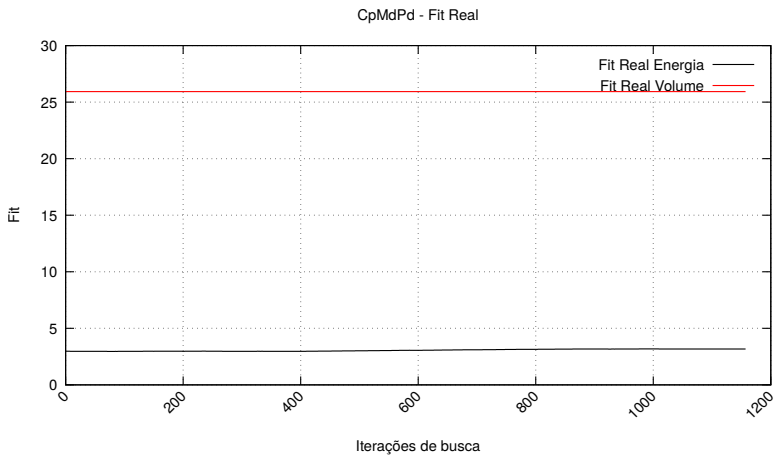
(b) Energia

4 SubSistema 1

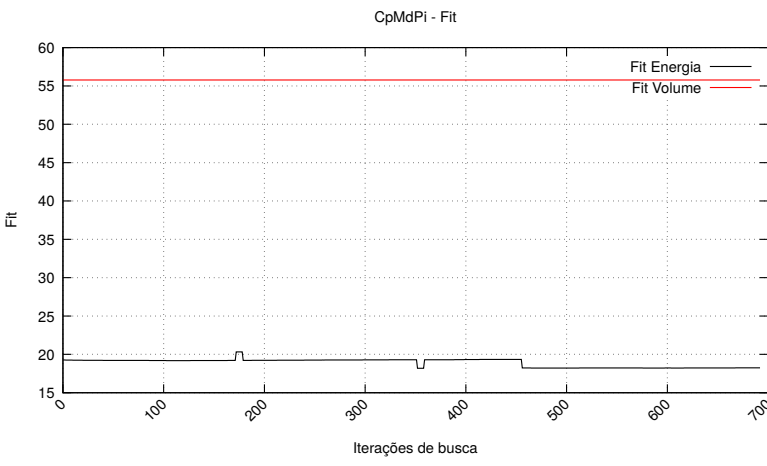
4.1 Fit/RealFit



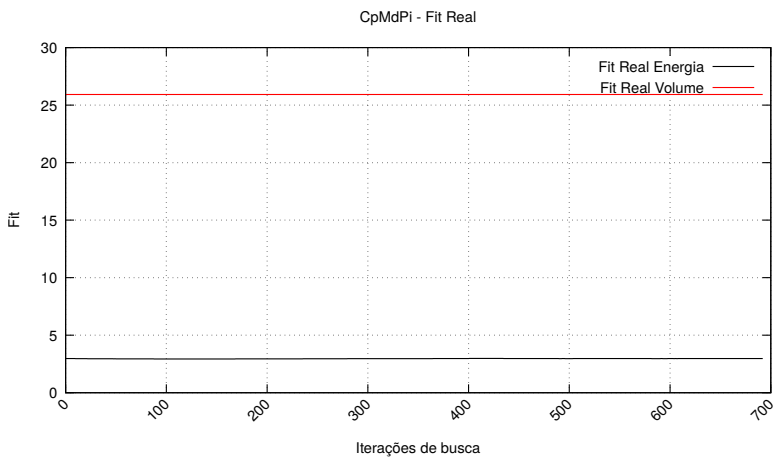
(a) CpMdPd



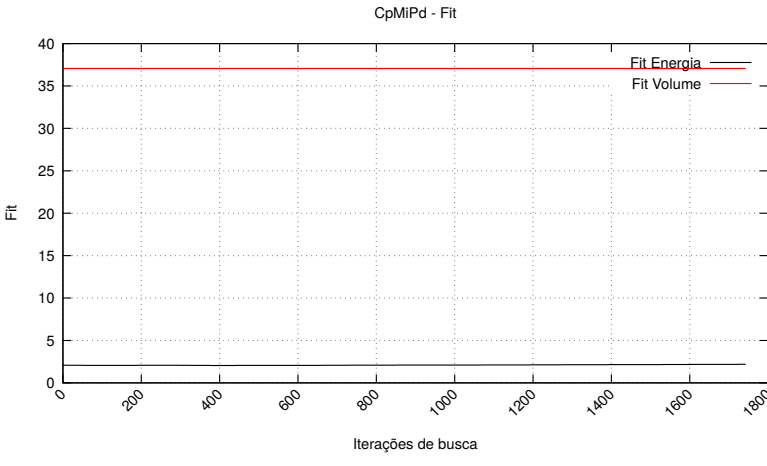
(b) CpMdPd



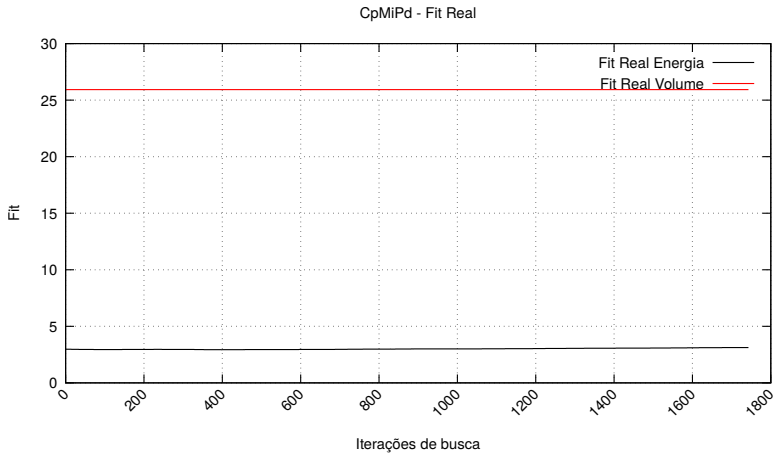
(a) CpMdPi



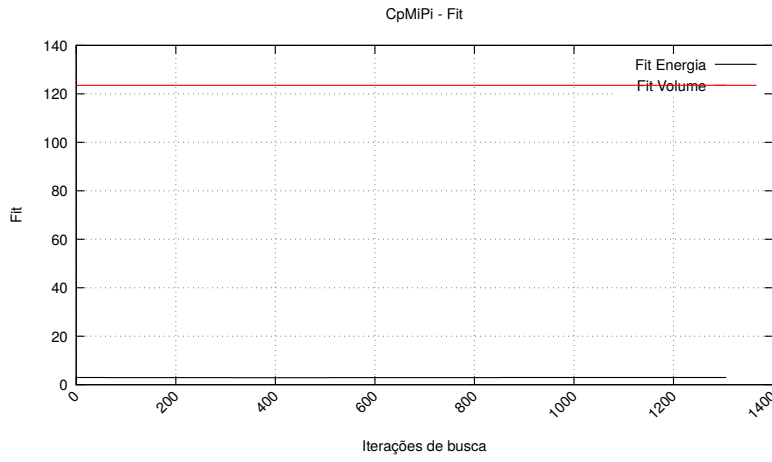
(b) CpMdPi



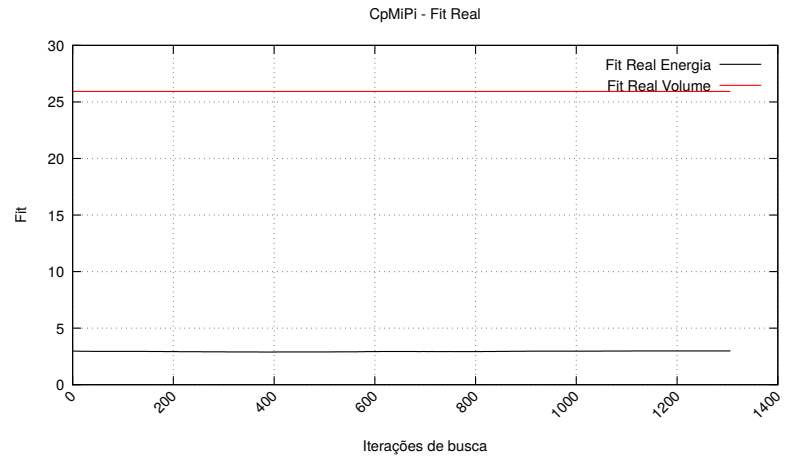
(a) CpMiPd



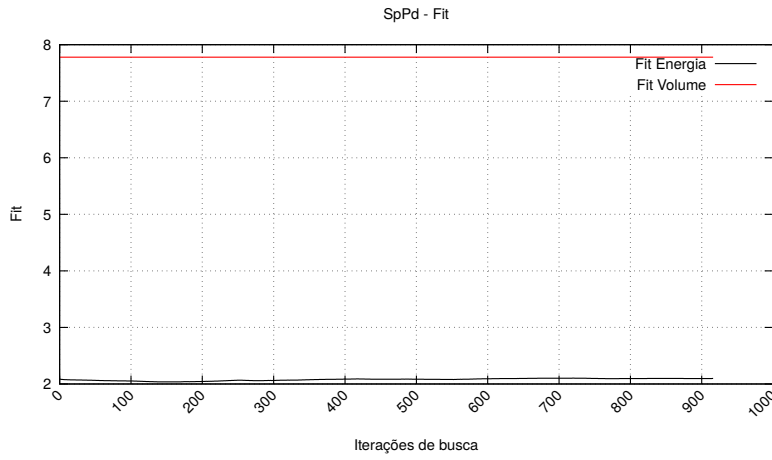
(b) CpMiPd



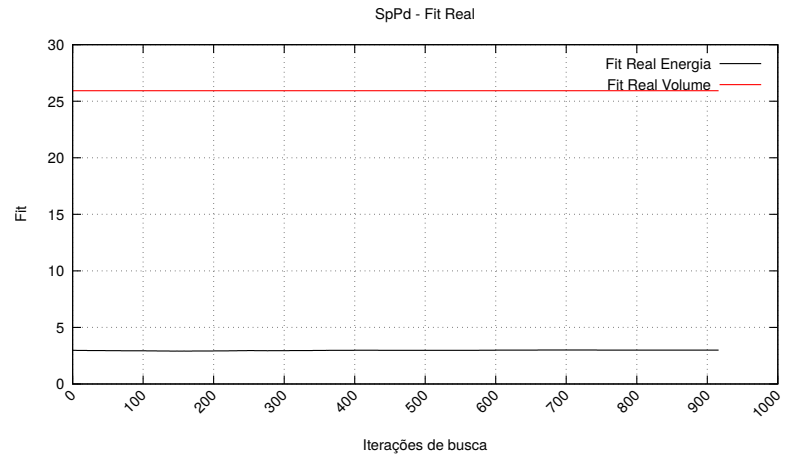
(a) CpMiPi



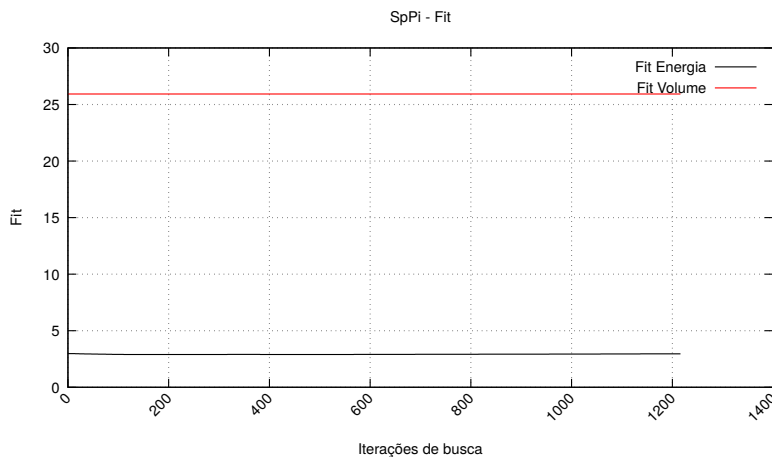
(b) CpMiPi



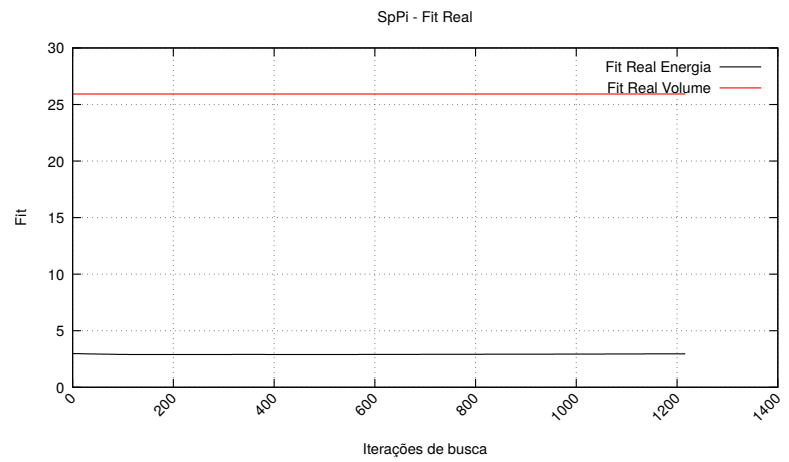
(a) SpPd



(b) SpPd



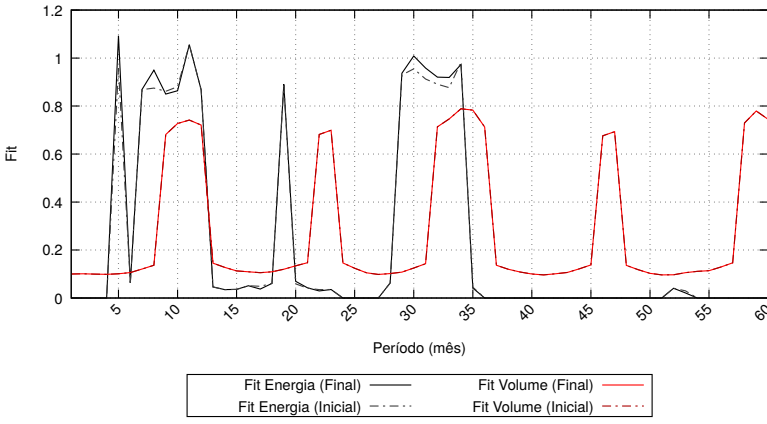
(a) SpPi



(b) SpPi

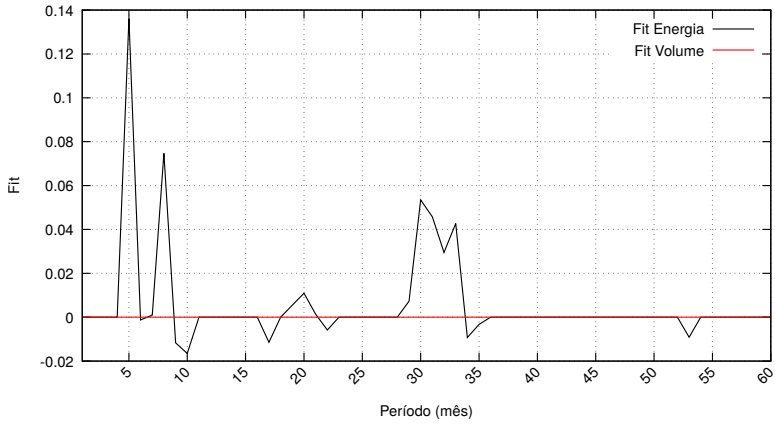
4.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



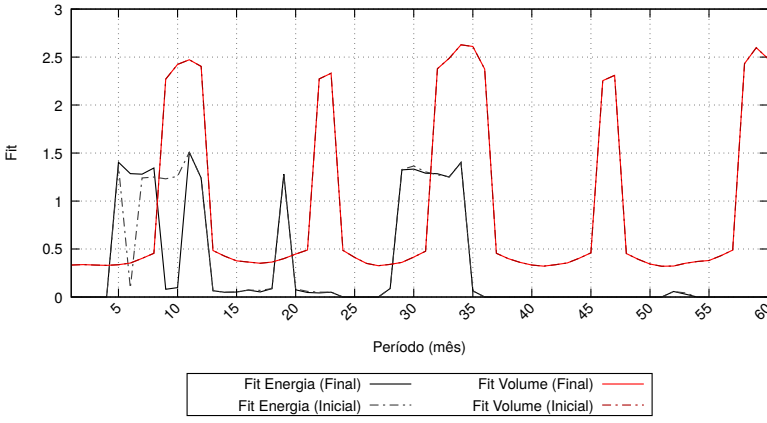
(a) CpMdPd

CpMdPd - Fit - Diferença



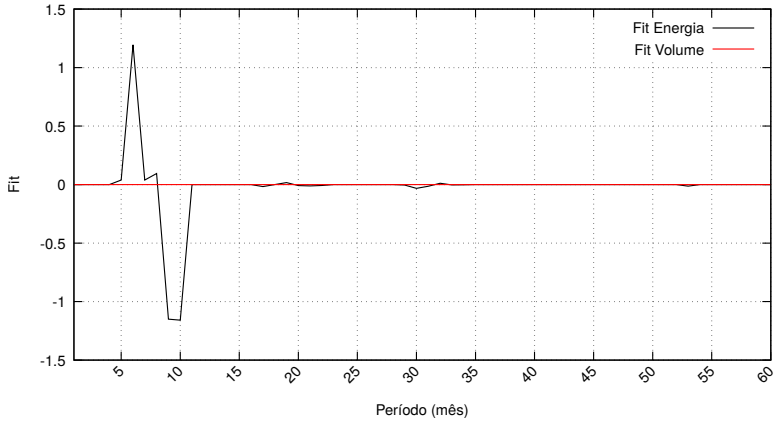
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



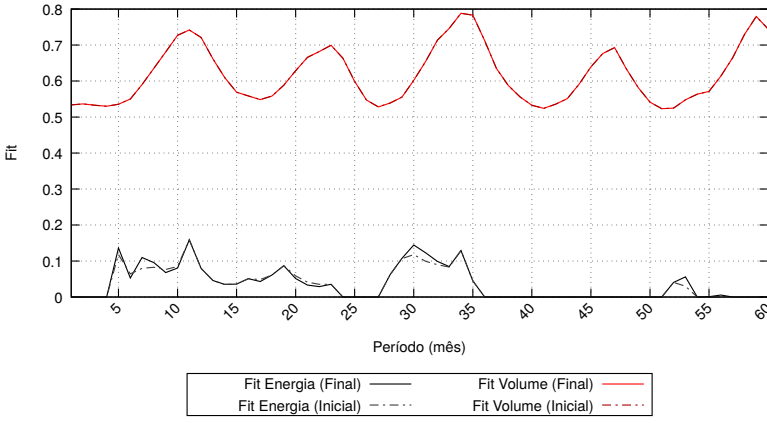
(a) CpMdPi

CpMdPi - Fit - Diferença



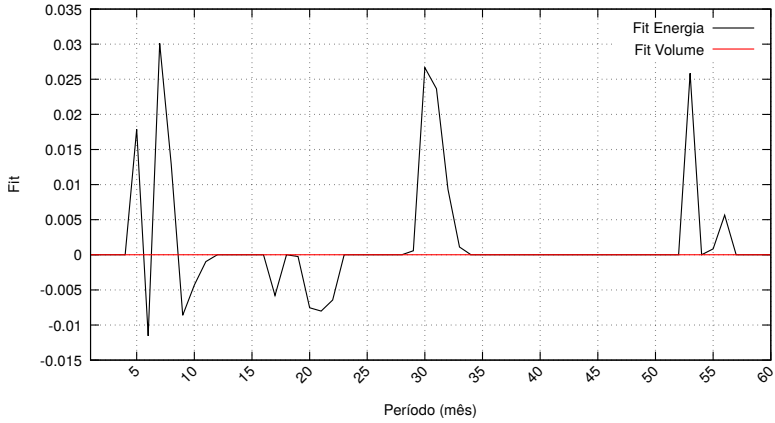
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



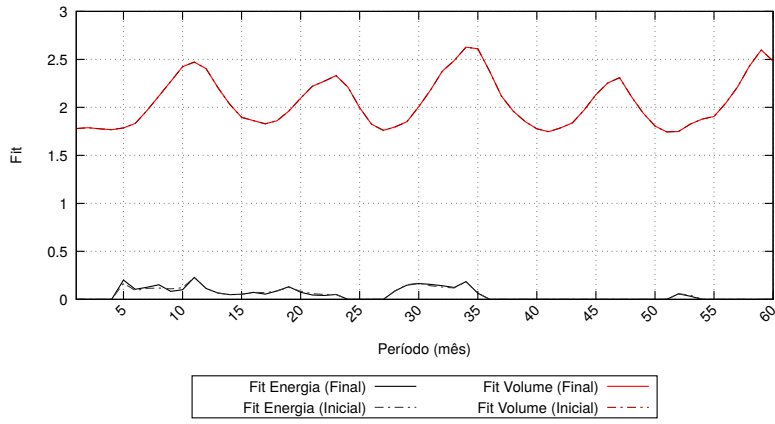
(a) CpMiPd

CpMiPd - Fit - Diferença



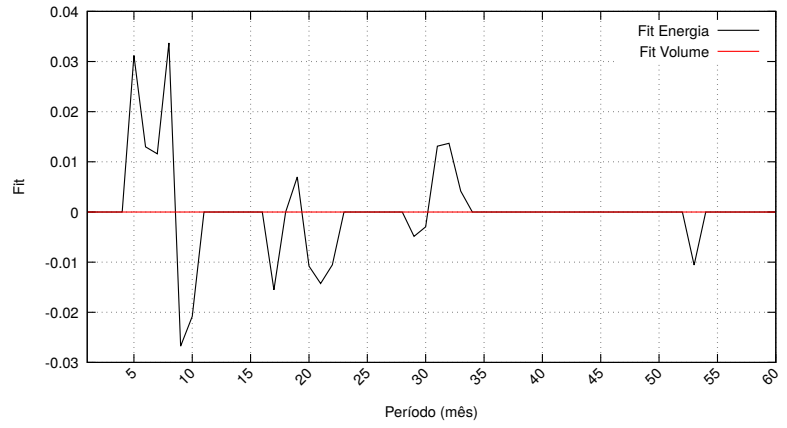
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



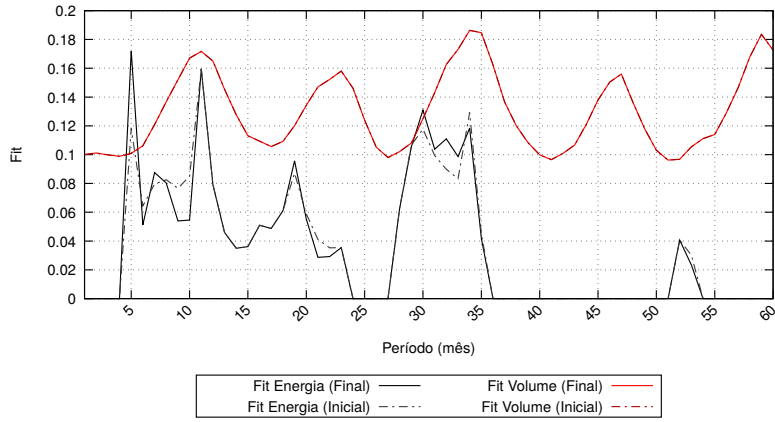
(a) CpMiPi

CpMiPi - Fit - Diferença



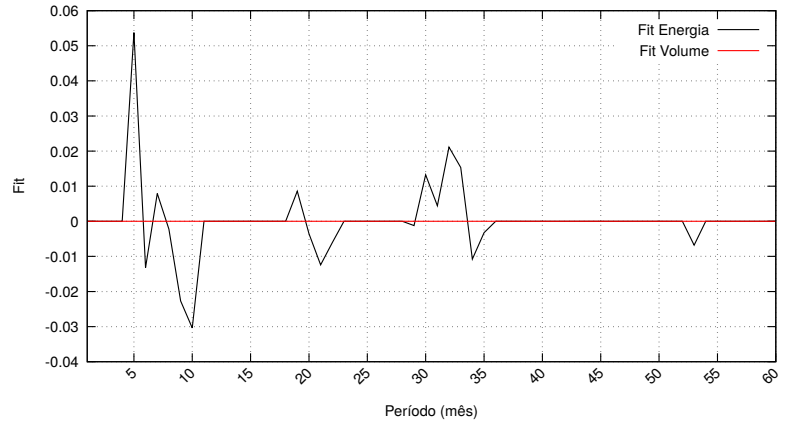
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



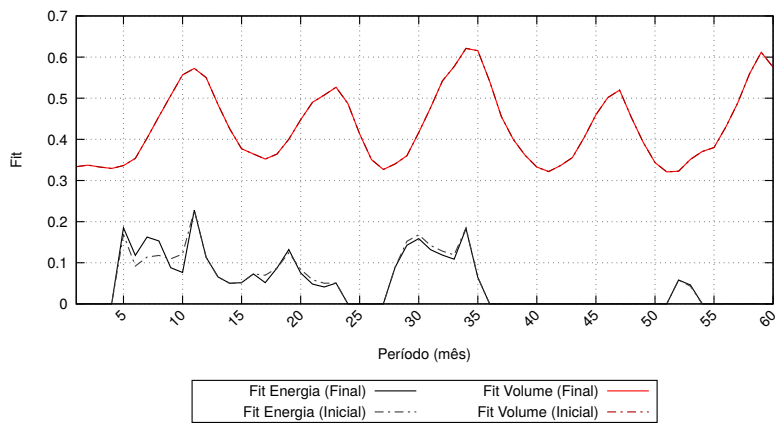
(a) SpPd

SpPd - Fit - Diferença



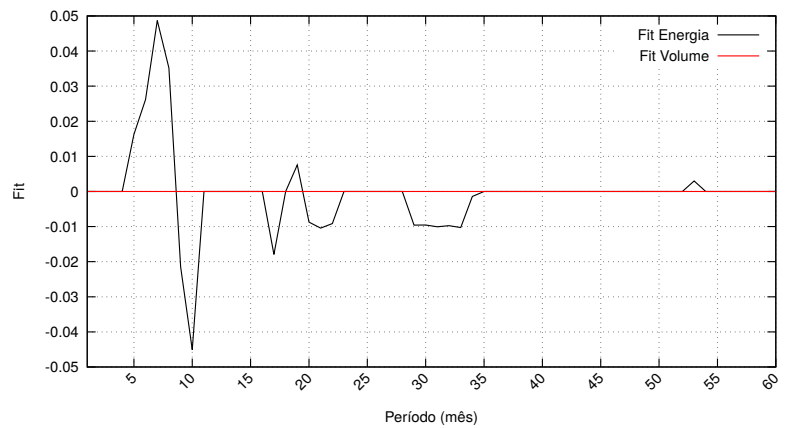
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



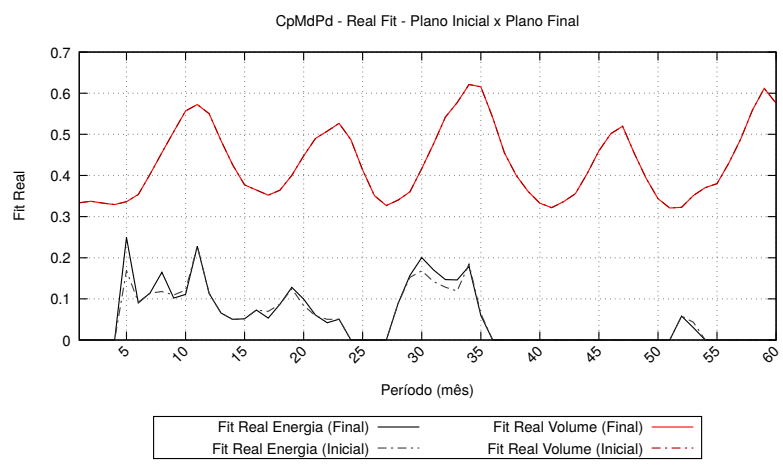
(a) SpPi

SpPi - Fit - Diferença

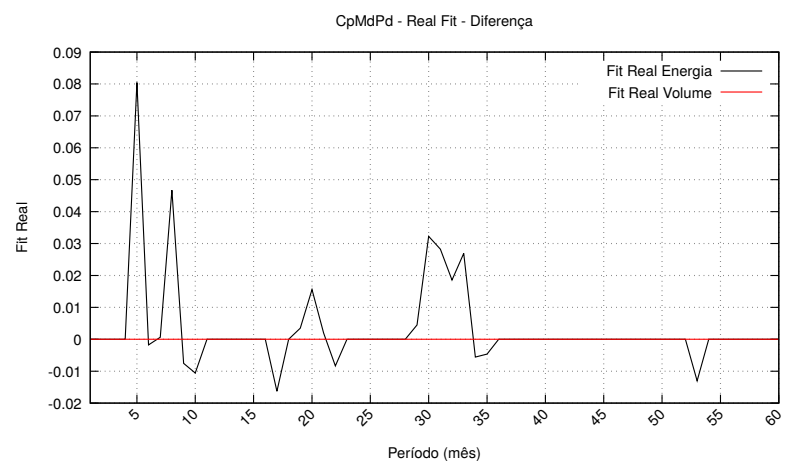


(b) SpPi

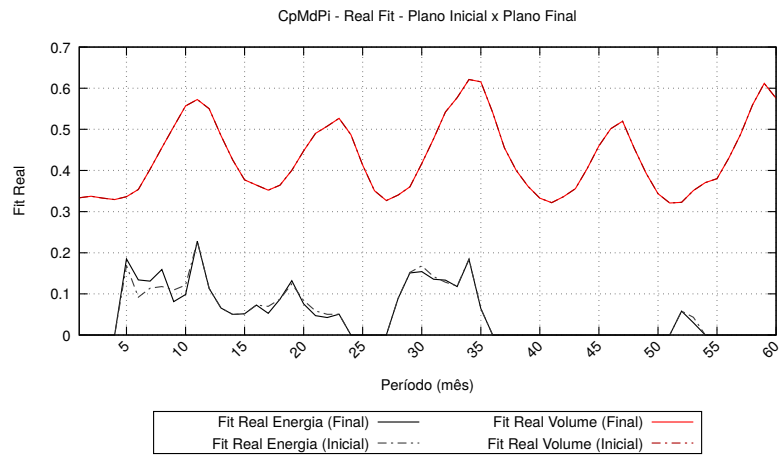
4.3 Energia/Volume RealFit



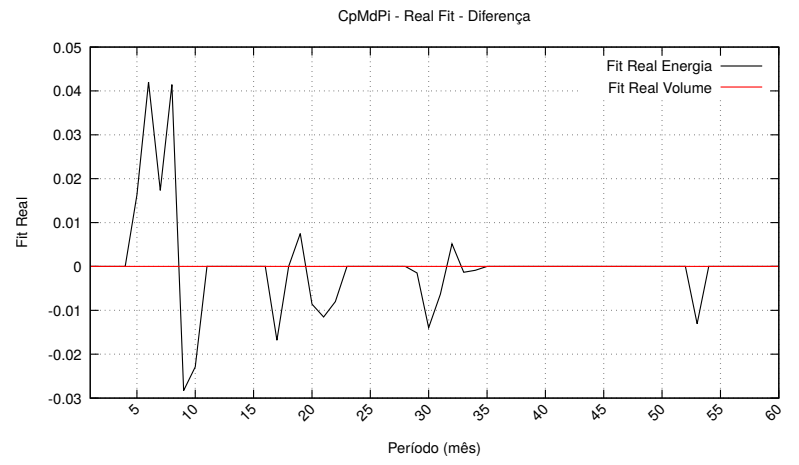
(a) CpMdPd



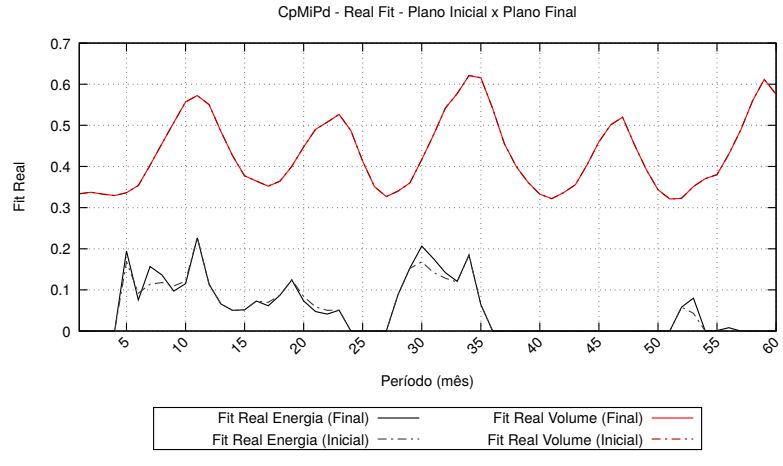
(b) CpMdPd



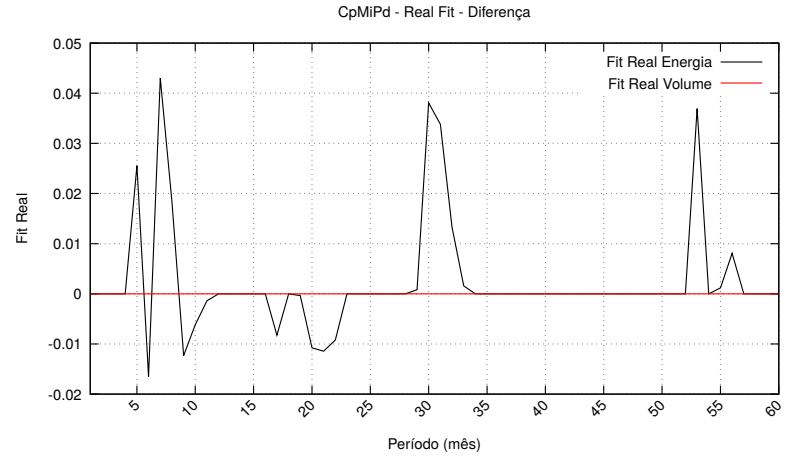
(a) CpMdPi



(b) CpMdPi

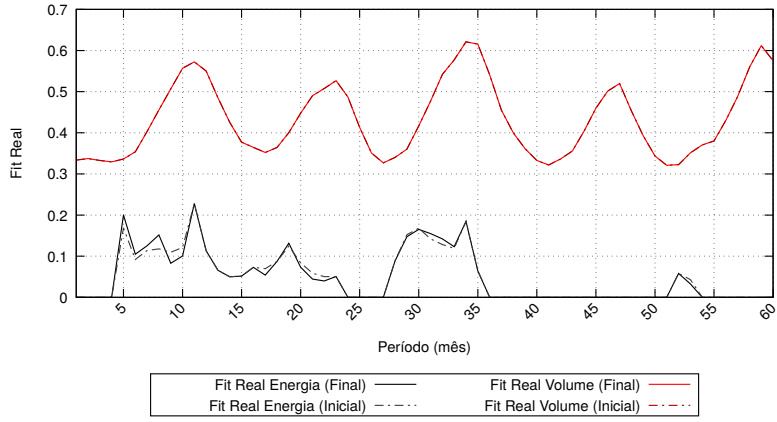


(a) CpMiPd



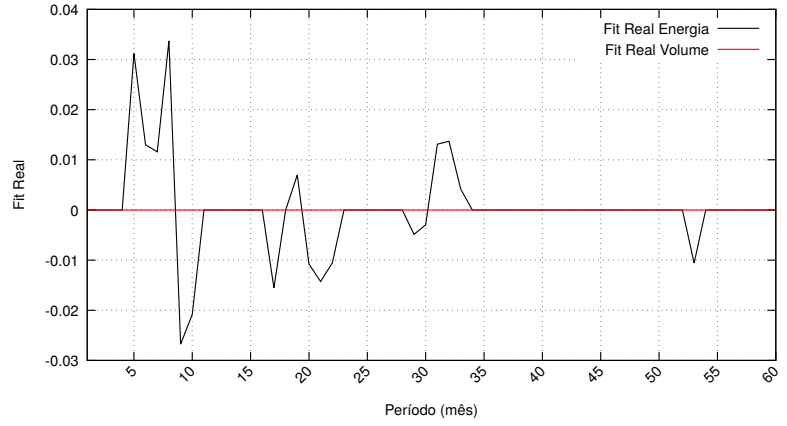
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



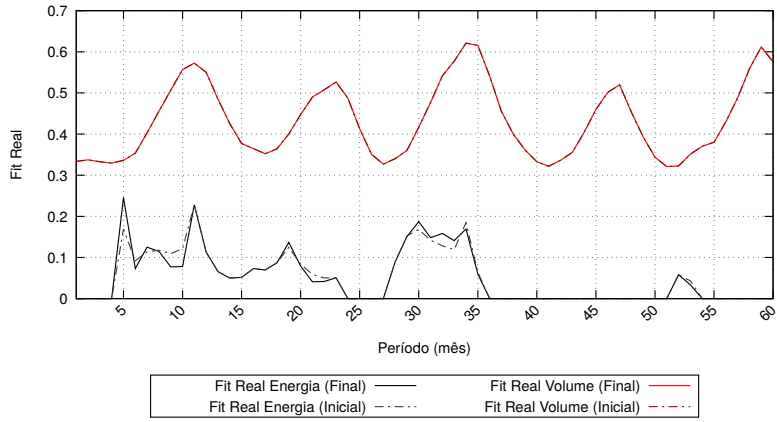
(a) CpMiPi

CpMiPi - Real Fit - Diferença



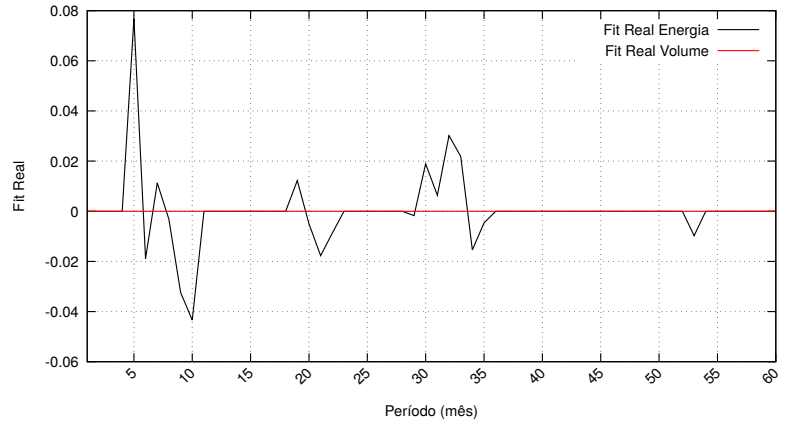
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



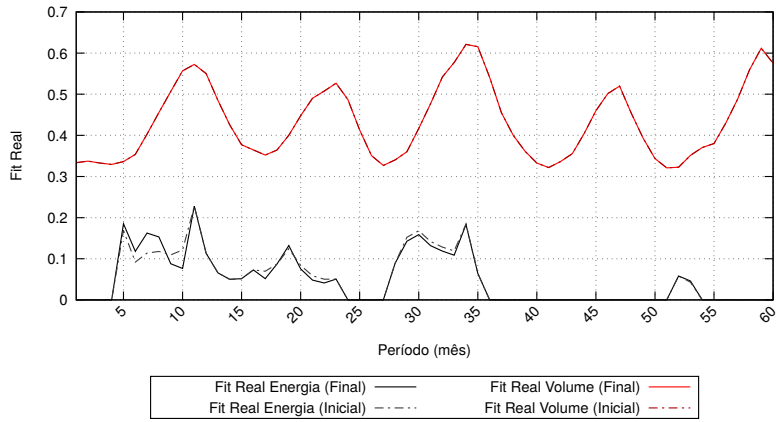
(a) SpPd

SpPd - Real Fit - Diferença



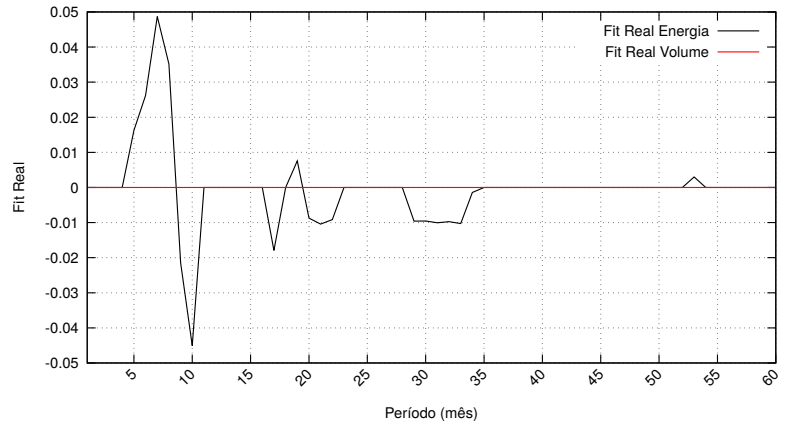
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

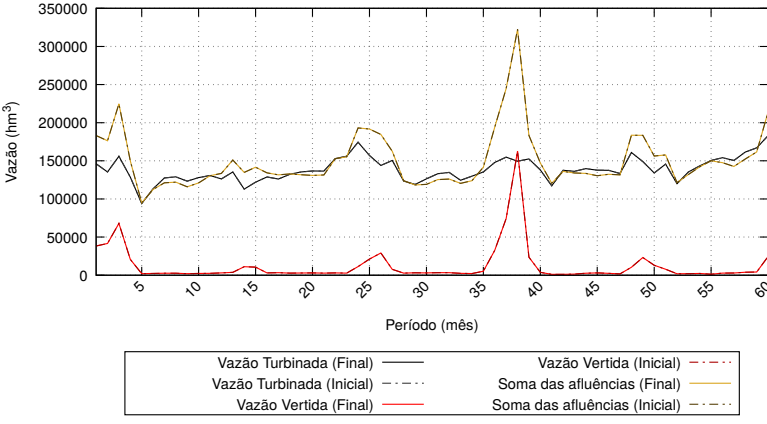
SpPi - Real Fit - Diferença



(b) SpPi

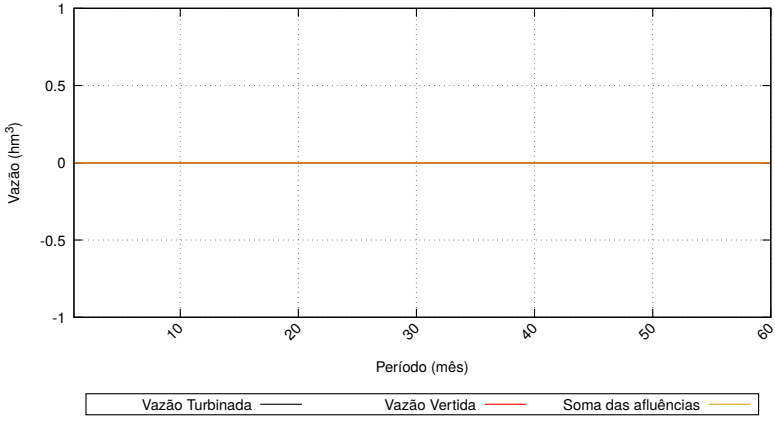
4.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



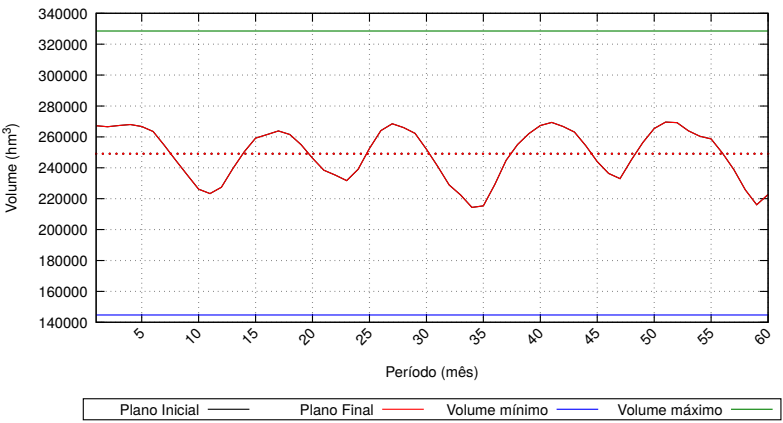
(a) CpMdPd

CpMdPd - Vazão - Diferença



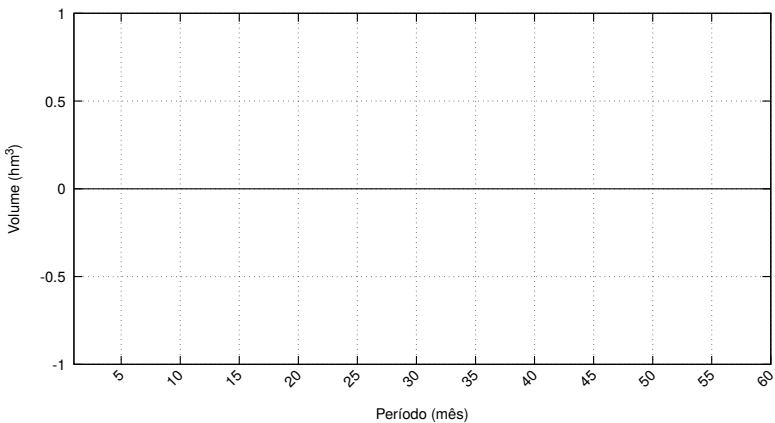
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



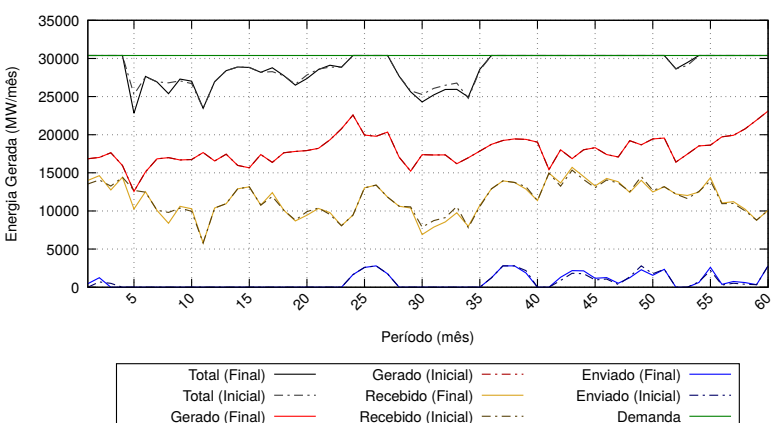
(a) CpMdPd

CpMdPd - Volume - Diferença



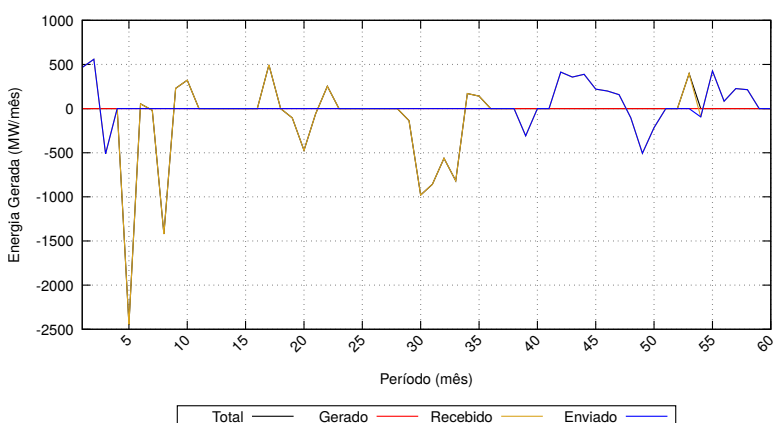
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

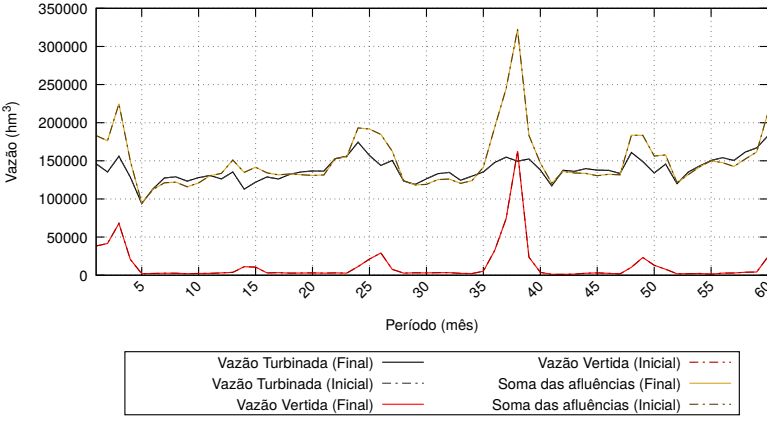
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

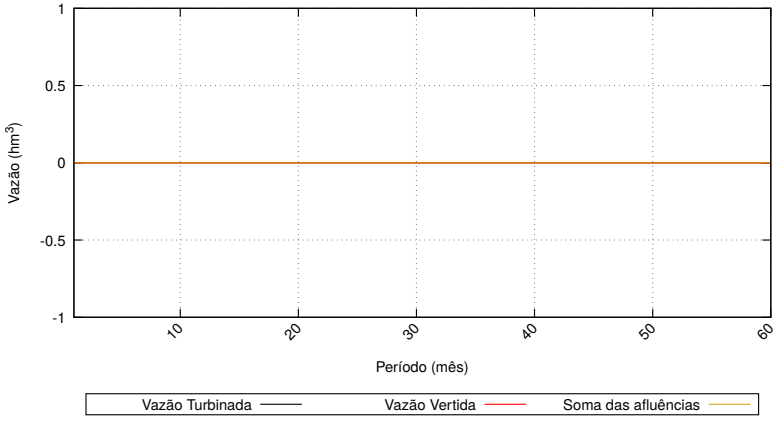
4.5 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



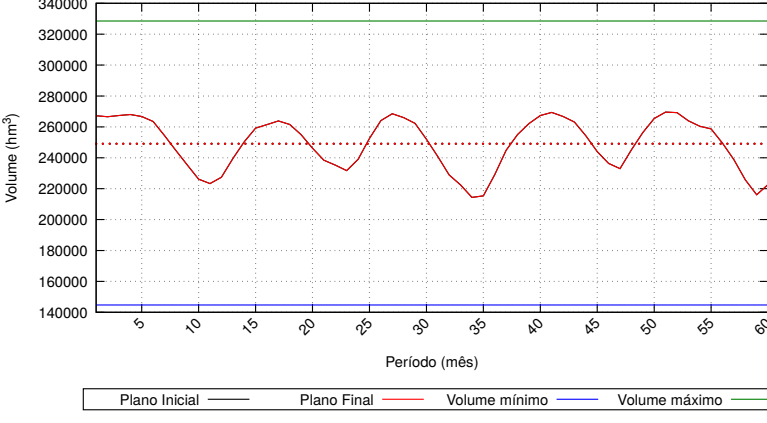
(a) CpMdPi

CpMdPi - Vazão - Diferença



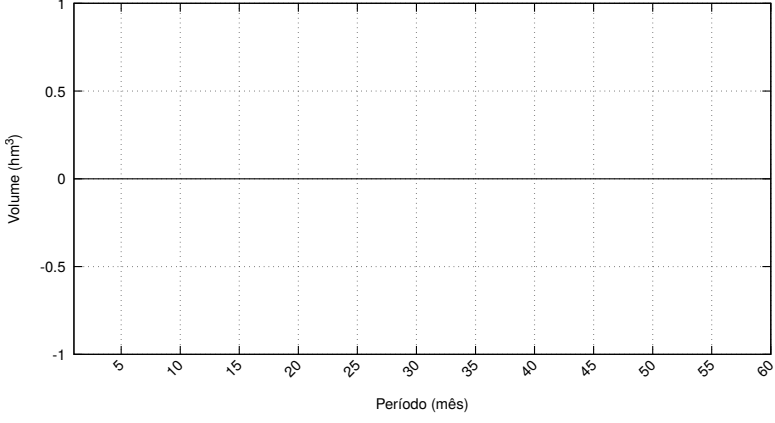
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



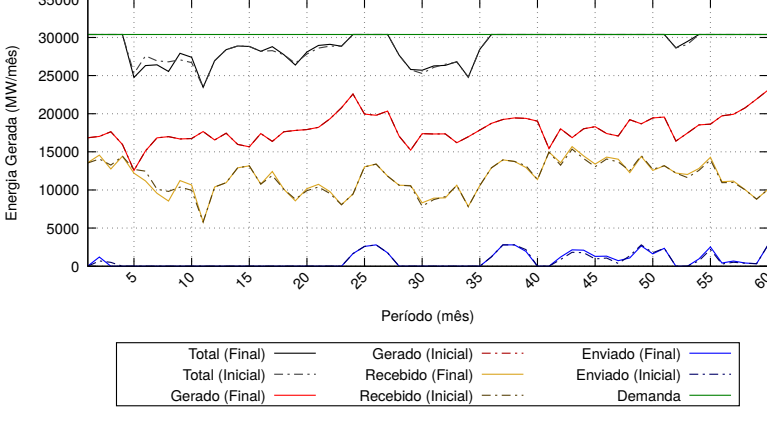
(a) CpMdPi

CpMdPi - Volume - Diferença



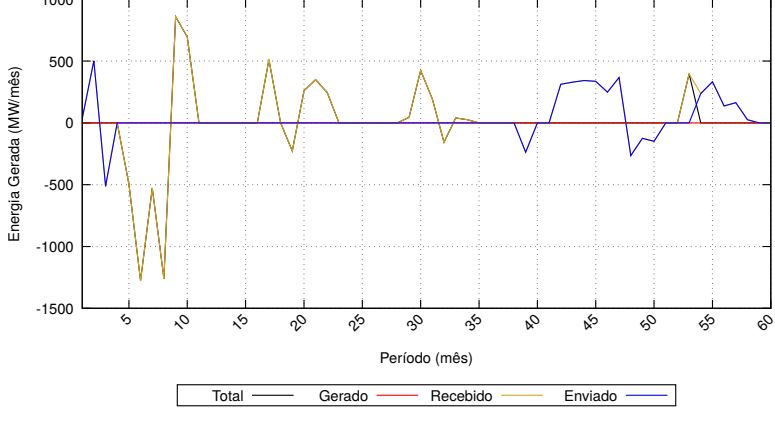
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



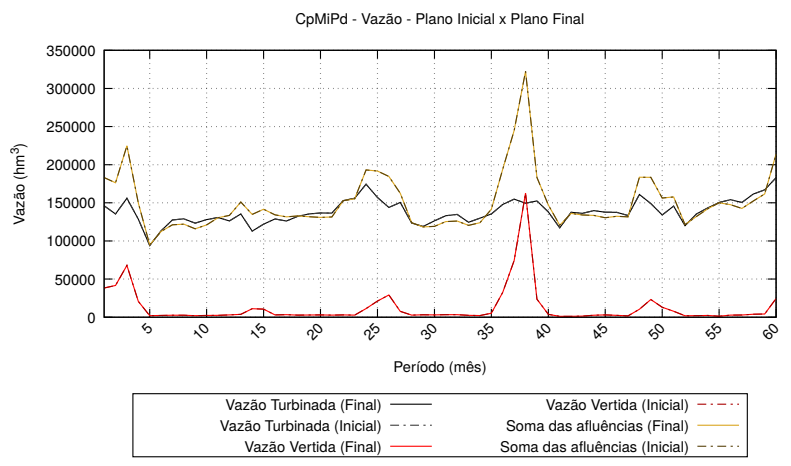
(a) CpMdPi

CpMdPi - Energia Gerada - Diferença

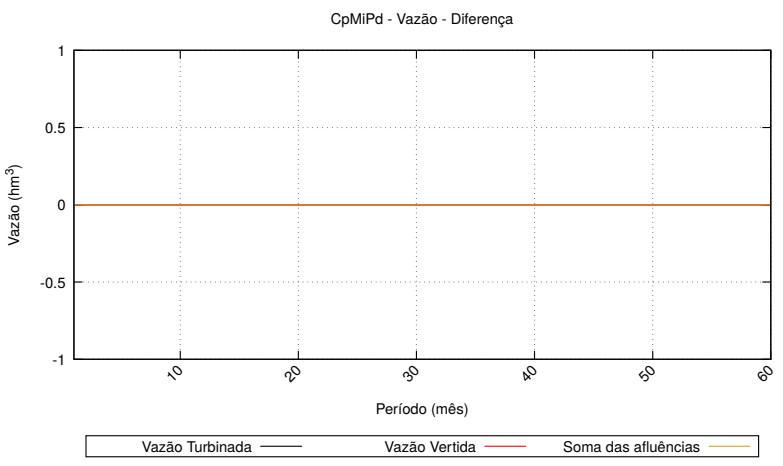


(b) CpMdPi

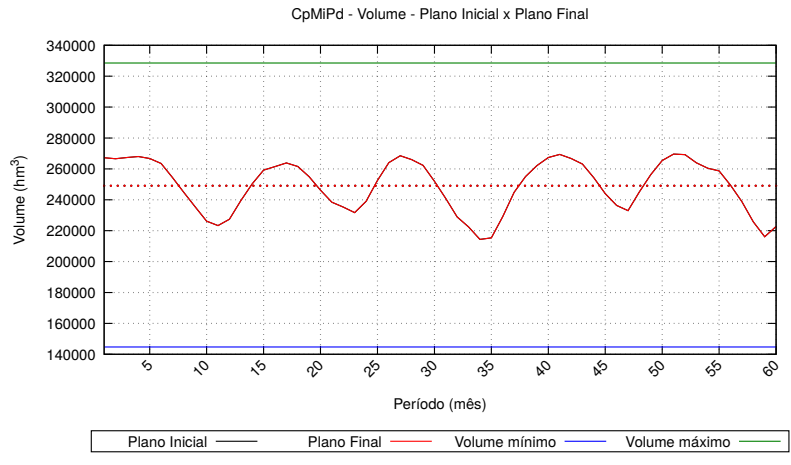
4.6 Resultados - CpMiPd



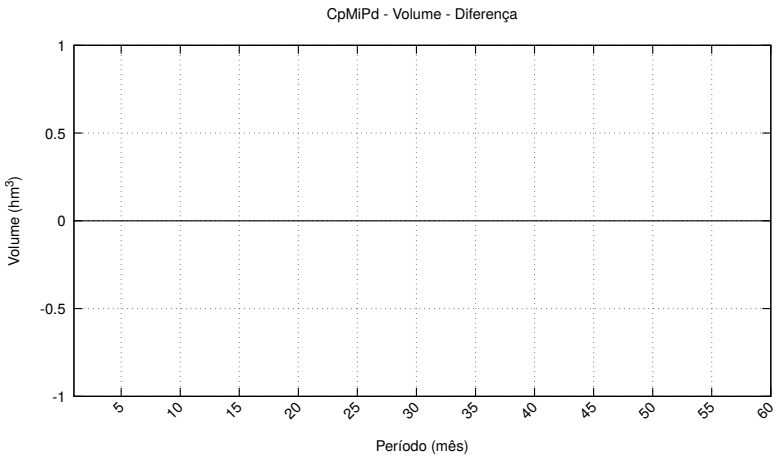
(a) CpMiPd



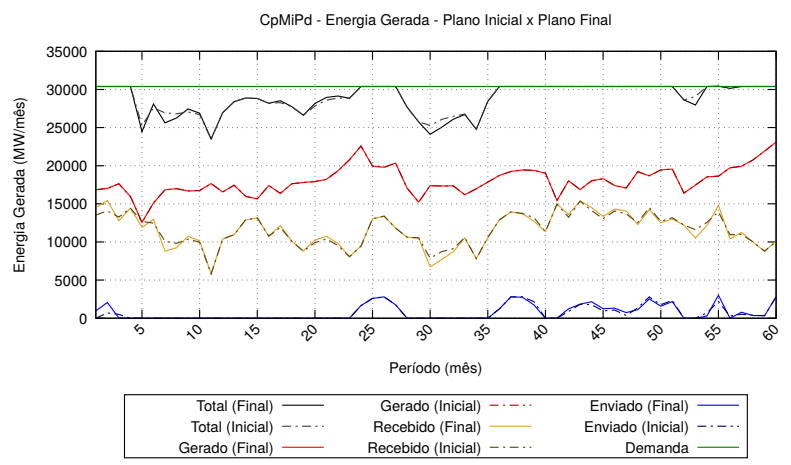
(b) CpMiPd



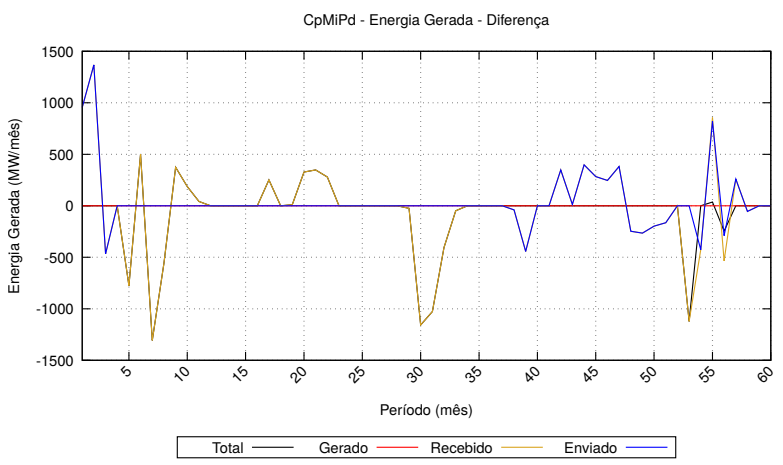
(a) CpMiPd



(b) CpMiPd

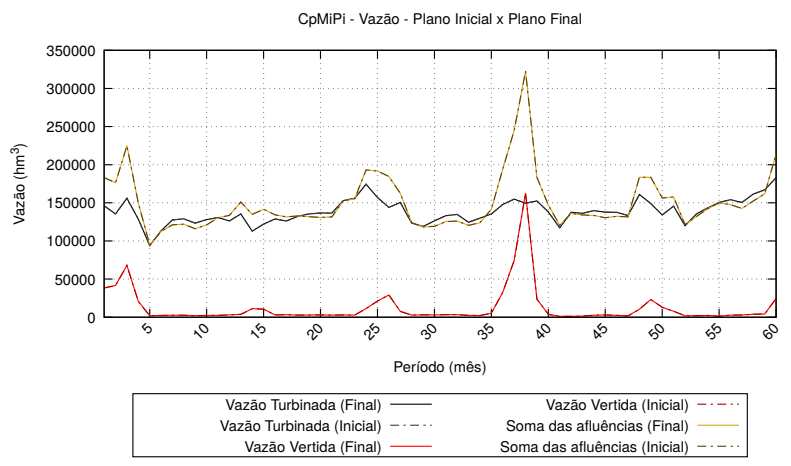


(a) CpMiPd

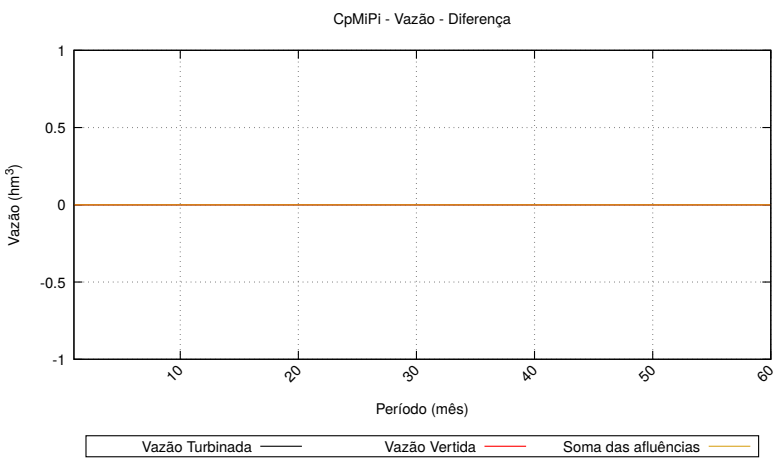


(b) CpMiPd

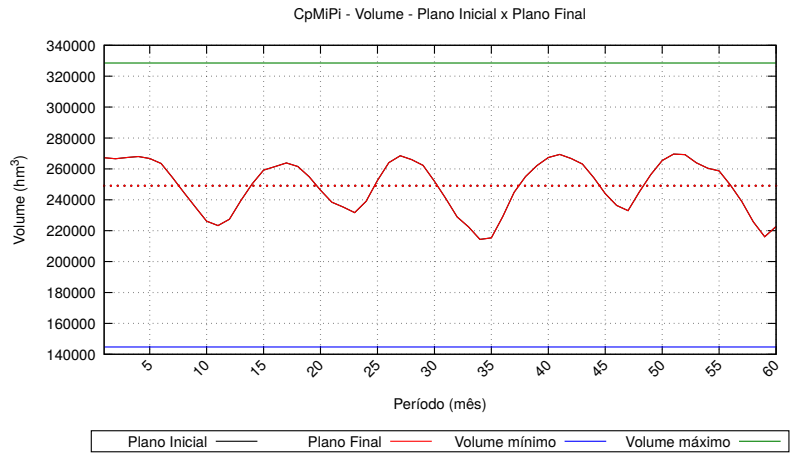
4.7 Resultados - CpMiPi



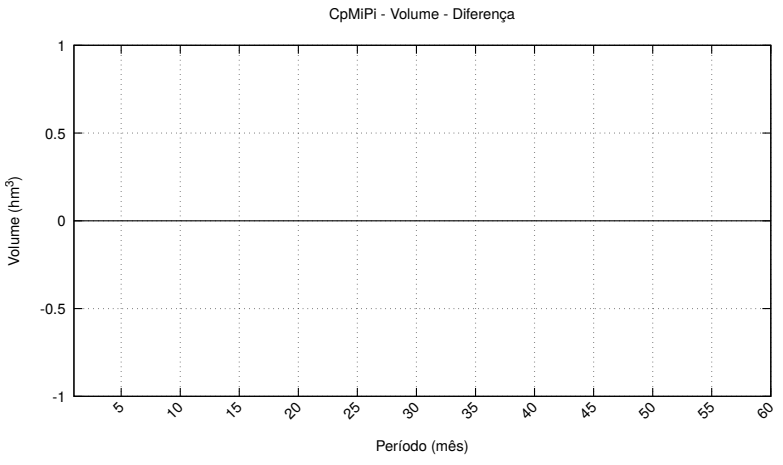
(a) CpMiPi



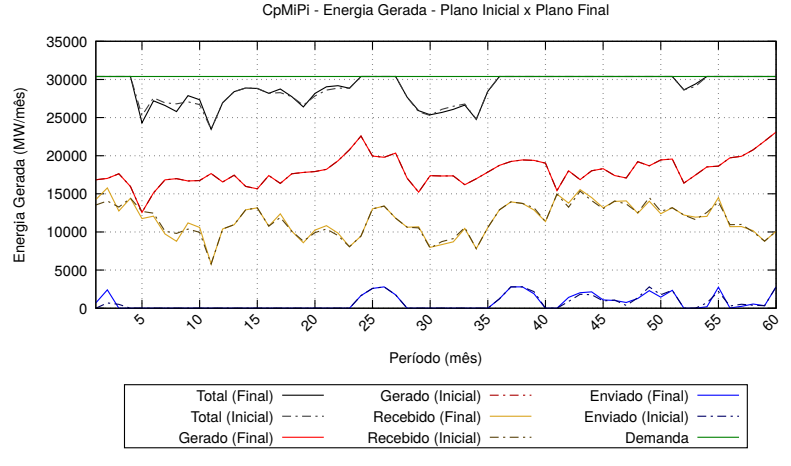
(b) CpMiPi



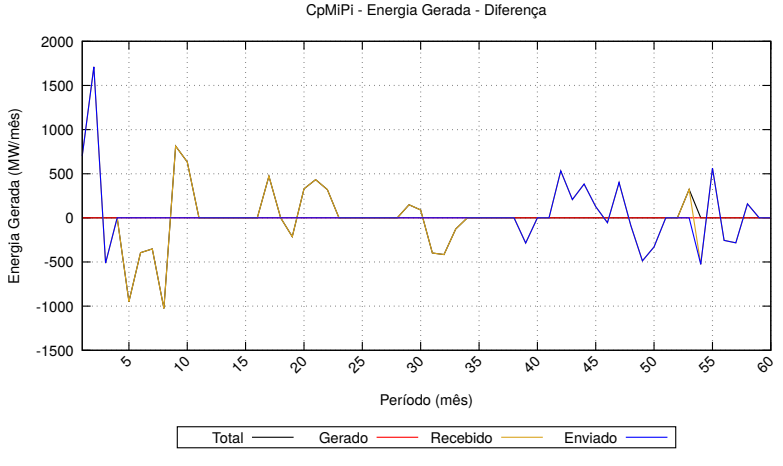
(a) CpMiPi



(b) CpMiPi

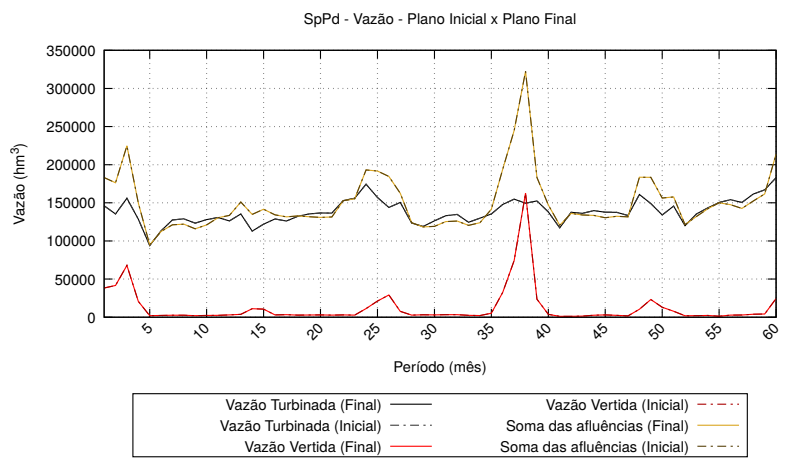


(a) CpMiPi

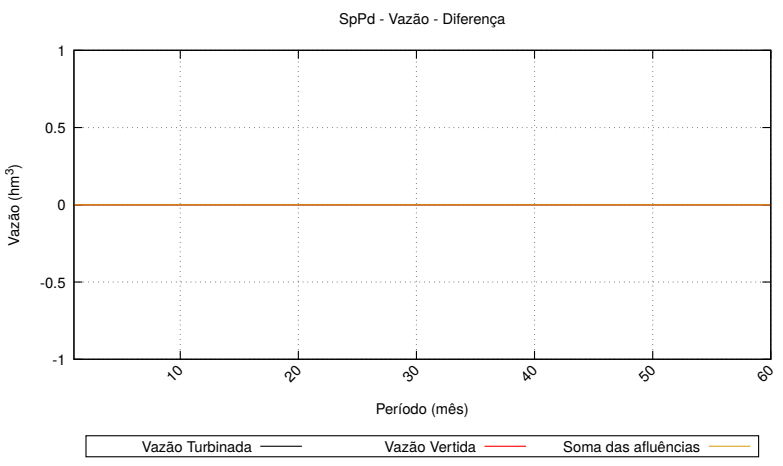


(b) CpMiPi

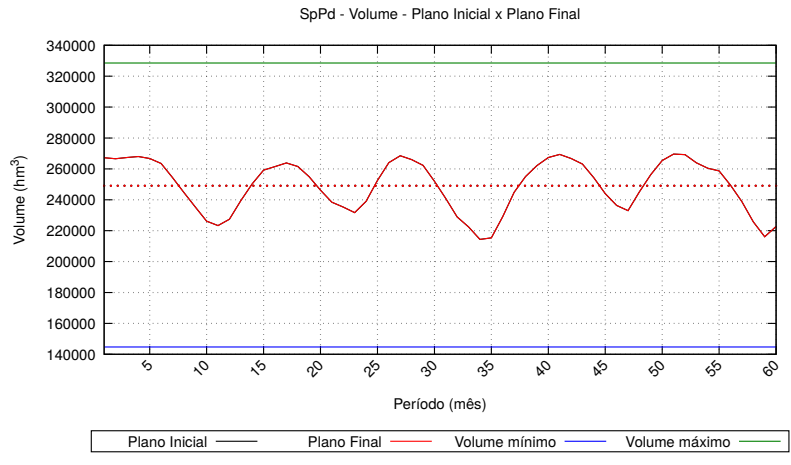
4.8 Resultados - SpPd



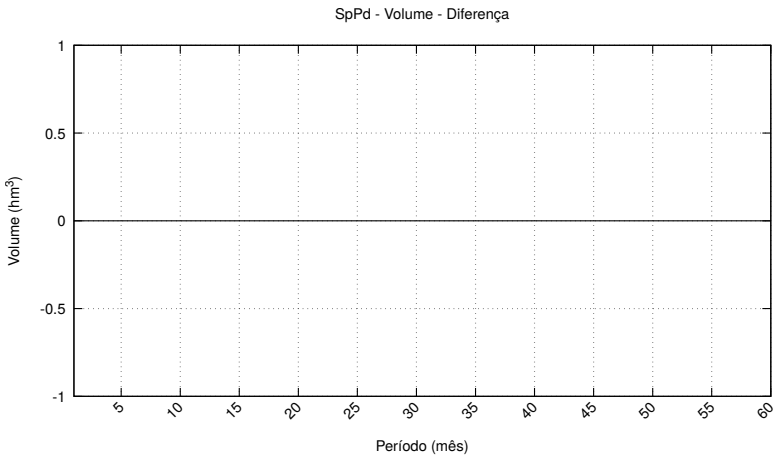
(a) SpPd



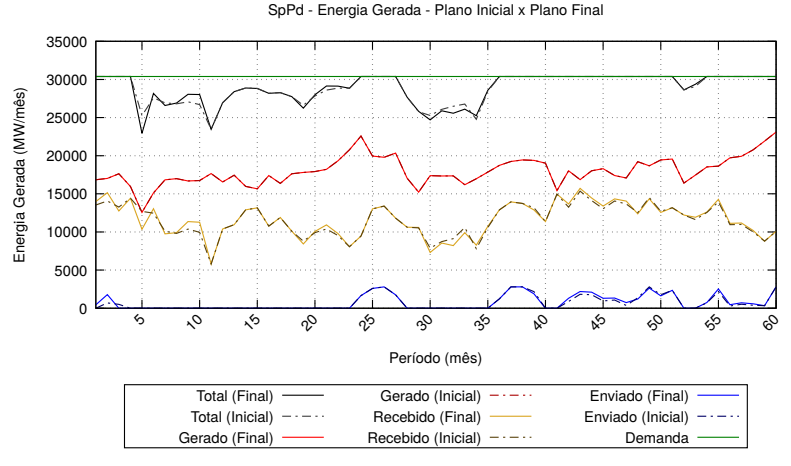
(b) SpPd



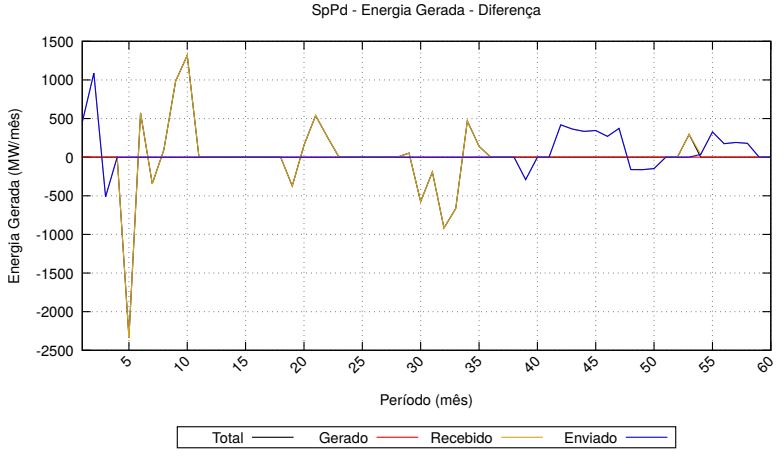
(a) SpPd



(b) SpPd



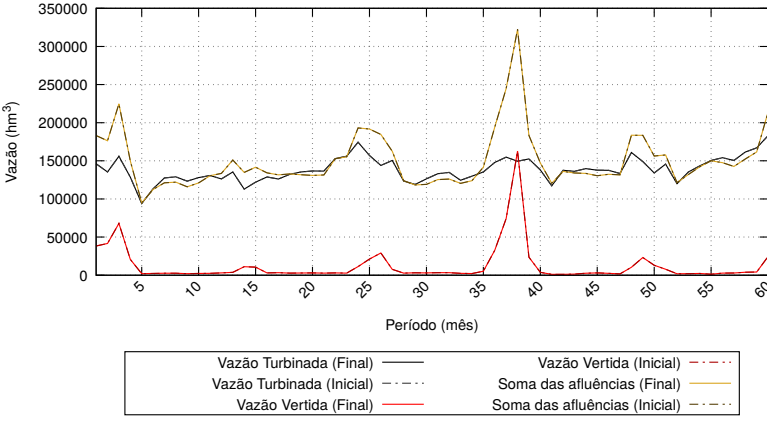
(a) SpPd



(b) SpPd

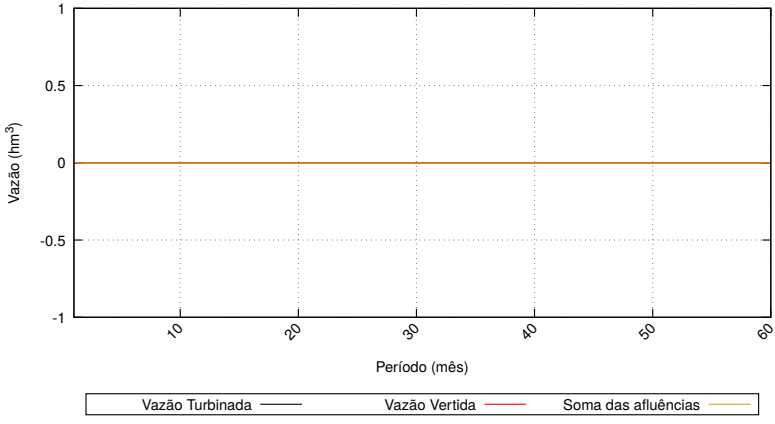
4.9 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



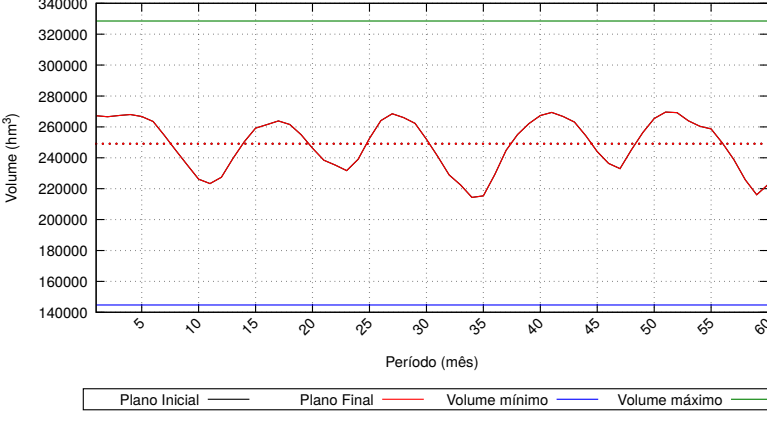
(a) SpPi

SpPi - Vazão - Diferença



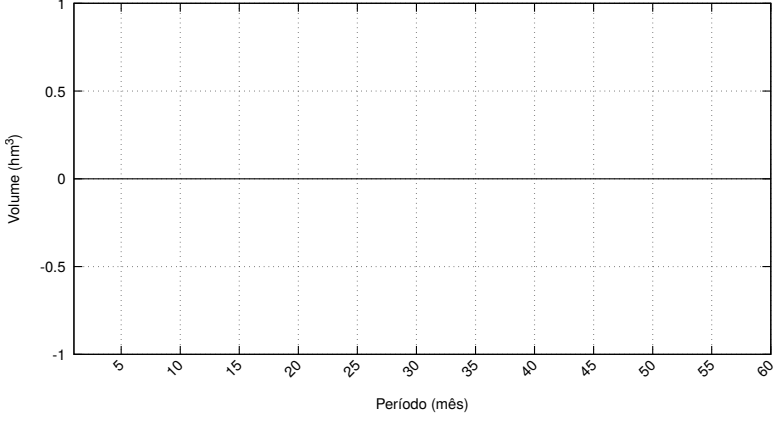
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



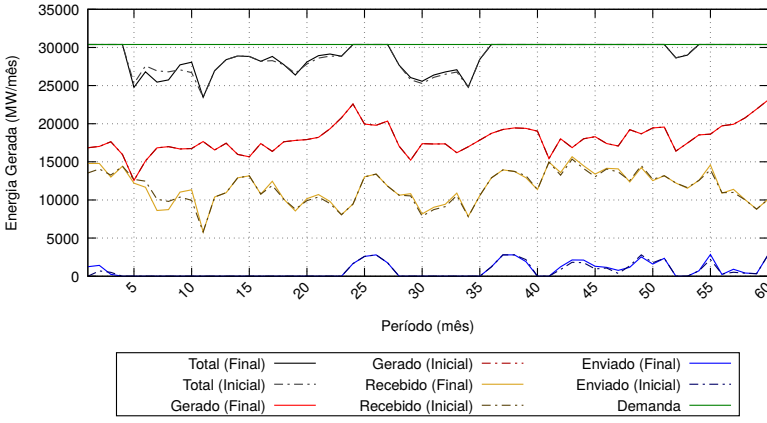
(a) SpPi

SpPi - Volume - Diferença



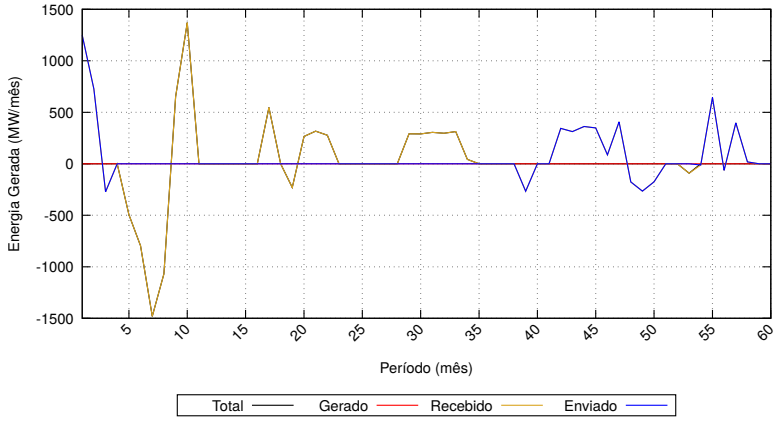
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

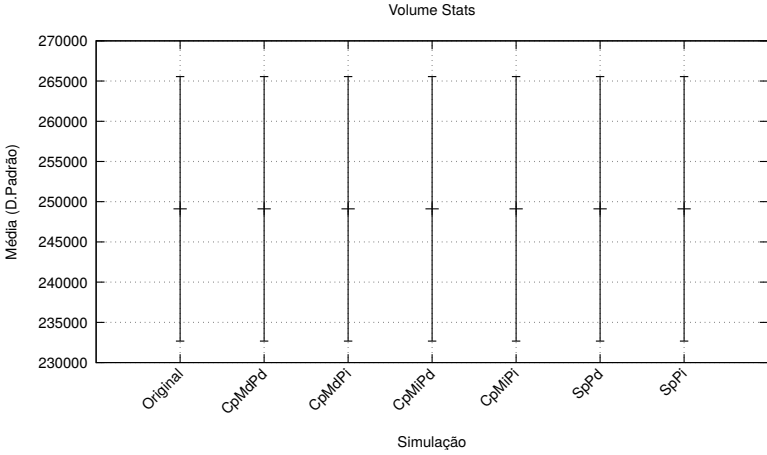


(b) SpPi

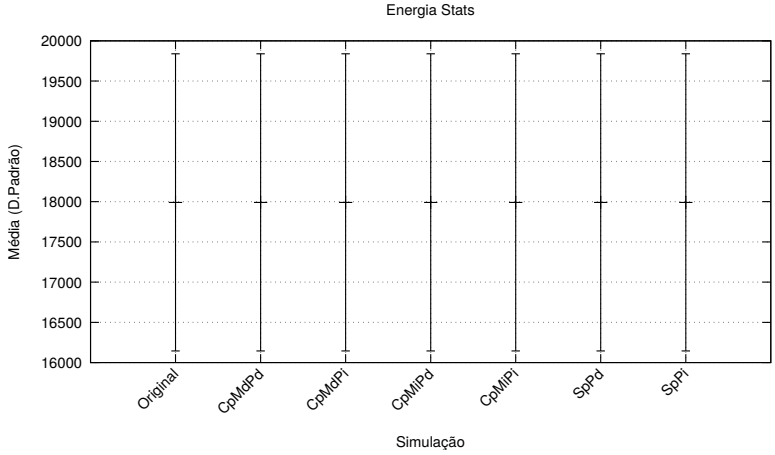
4.10 GPlan Stats

Tabela 9: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	249111.26139	16437.59337	17991.35317	1847.22468
CpMdPd	249111.26139	16437.59337	17991.35317	1847.22468
CpMdPi	249111.26139	16437.59337	17991.35317	1847.22468
CpMiPd	249111.26139	16437.59337	17991.35317	1847.22468
CpMiPi	249111.26139	16437.59337	17991.35317	1847.22468
SpPd	249111.26139	16437.59337	17991.35317	1847.22468
SpPi	249111.26139	16437.59337	17991.35317	1847.22468



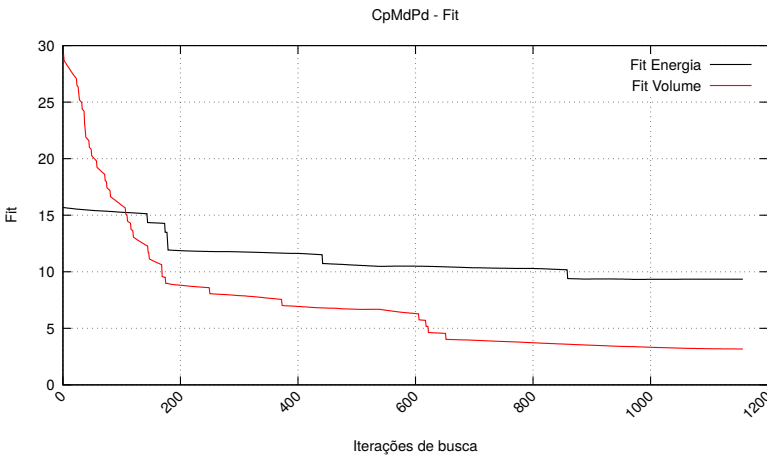
(a) Volume



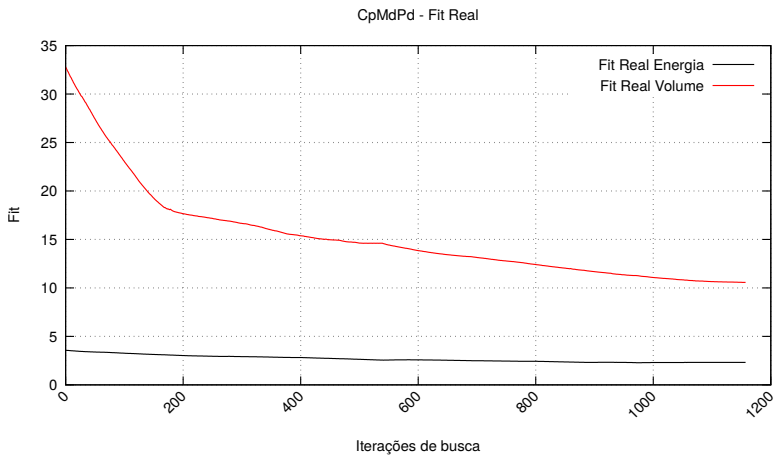
(b) Energia

5 SubSistema 2

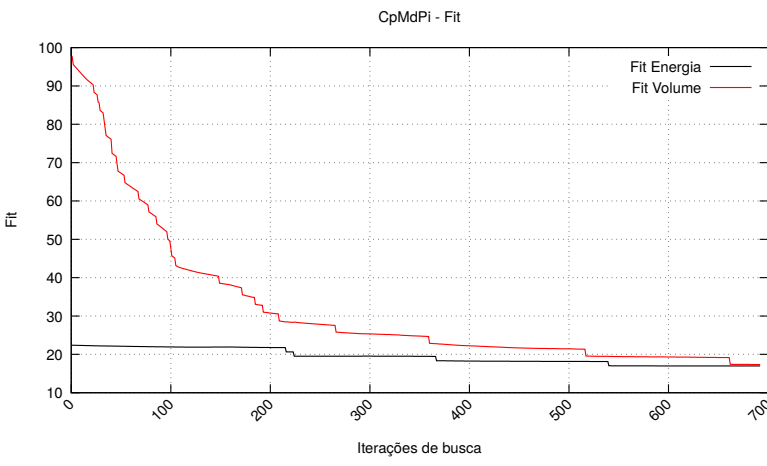
5.1 Fit/RealFit



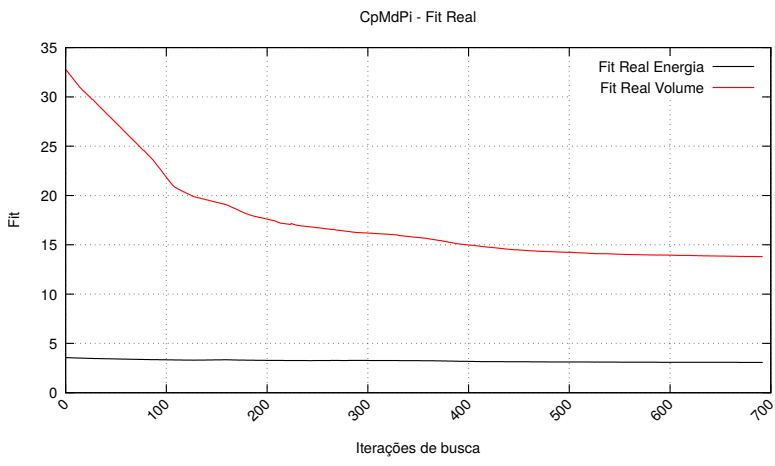
(a) CpMdPd



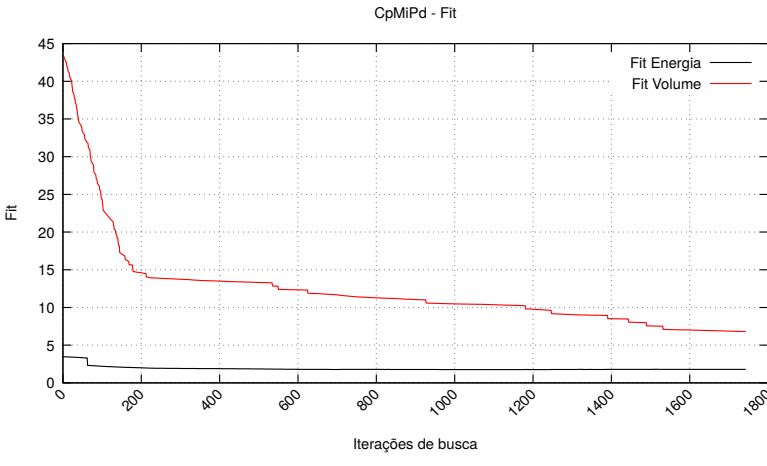
(b) CpMdPd



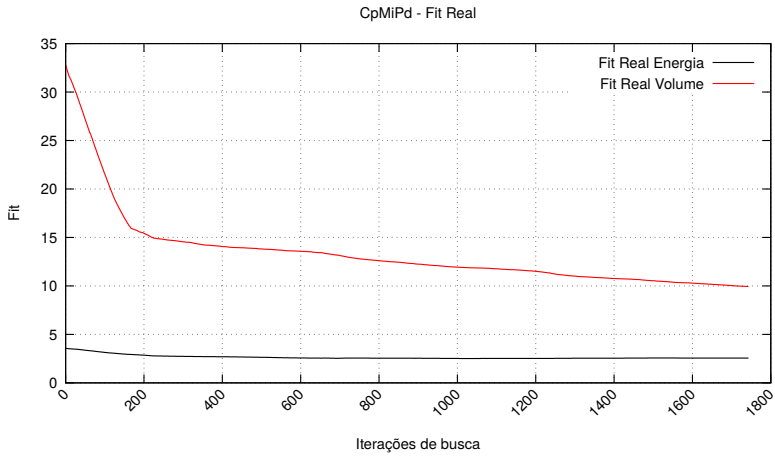
(a) CpMdPi



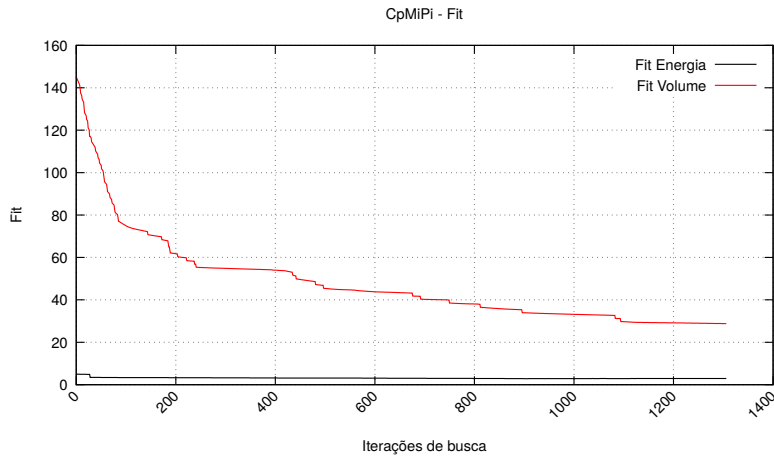
(b) CpMdPi



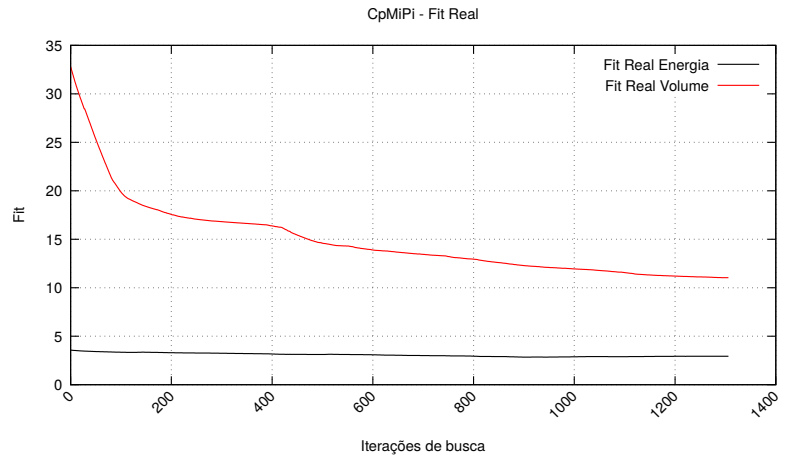
(a) CpMiPd



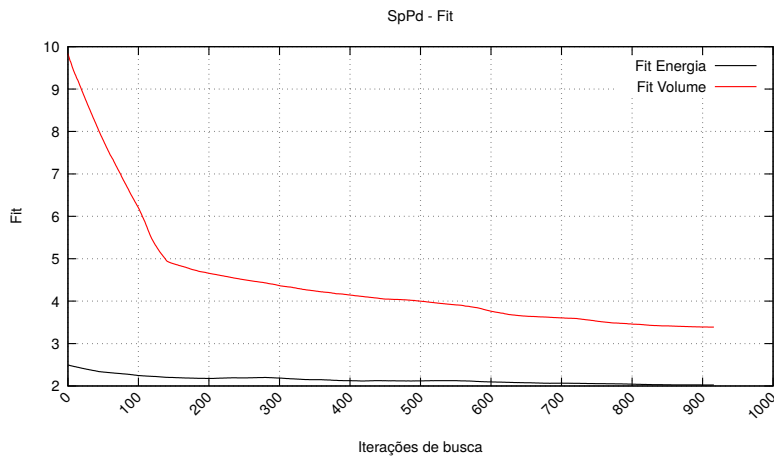
(b) CpMiPd



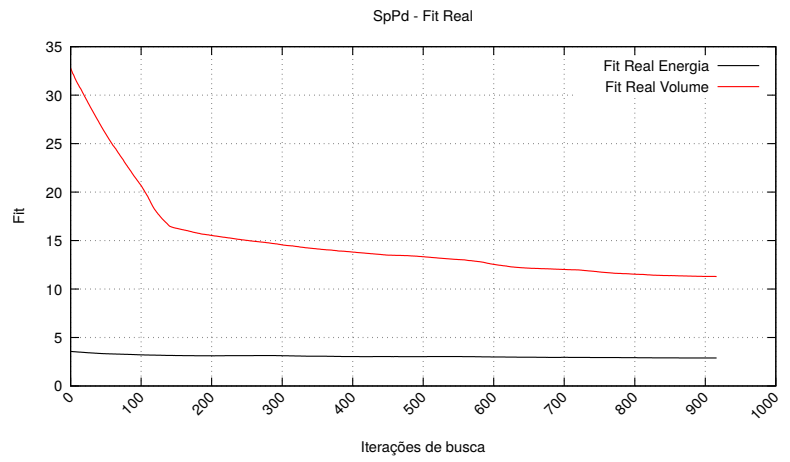
(a) CpMiPi



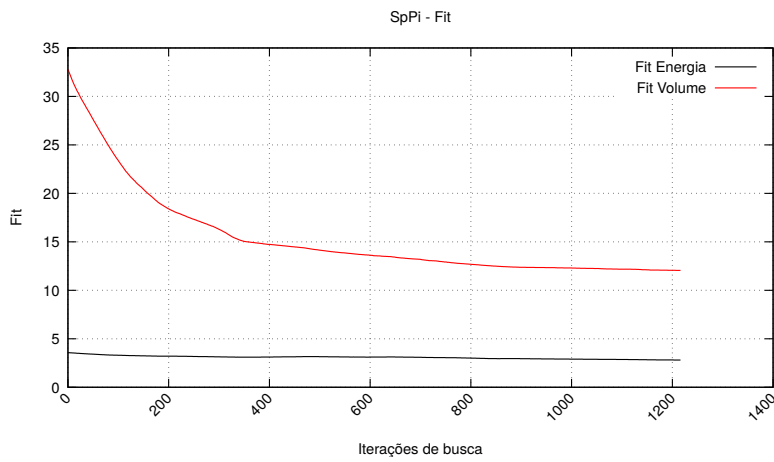
(b) CpMiPi



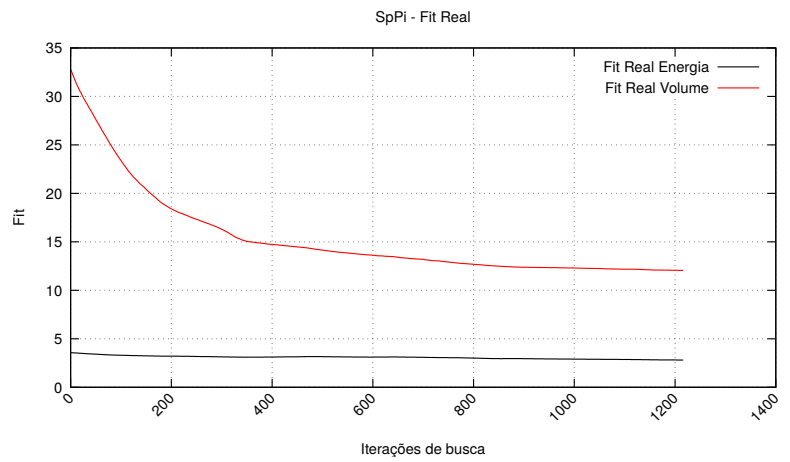
(a) SpPd



(b) SpPd



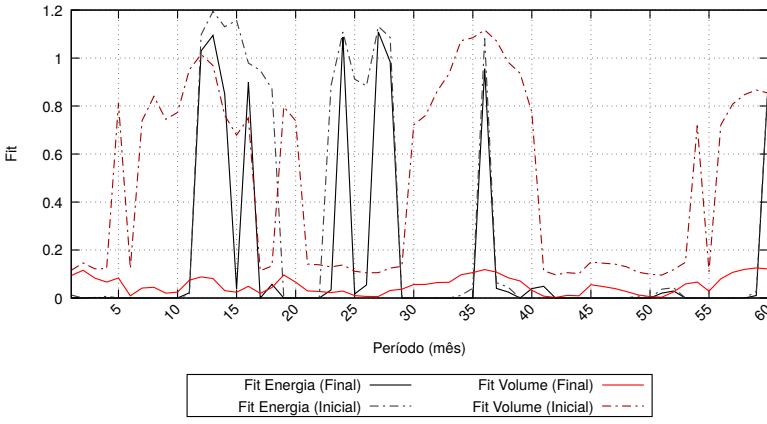
(a) SpPi



(b) SpPi

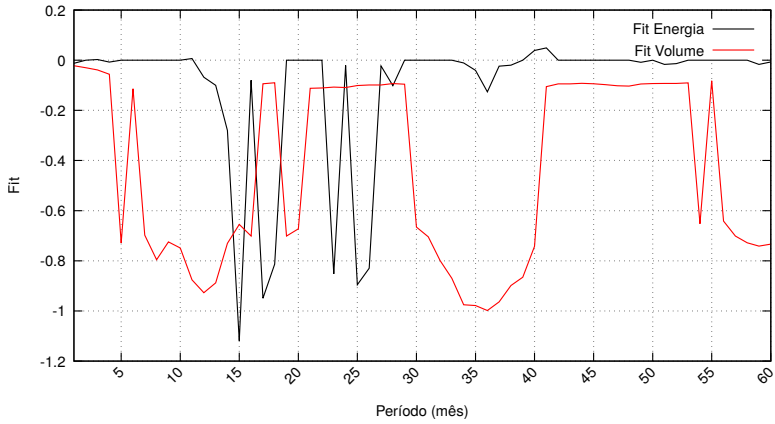
5.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



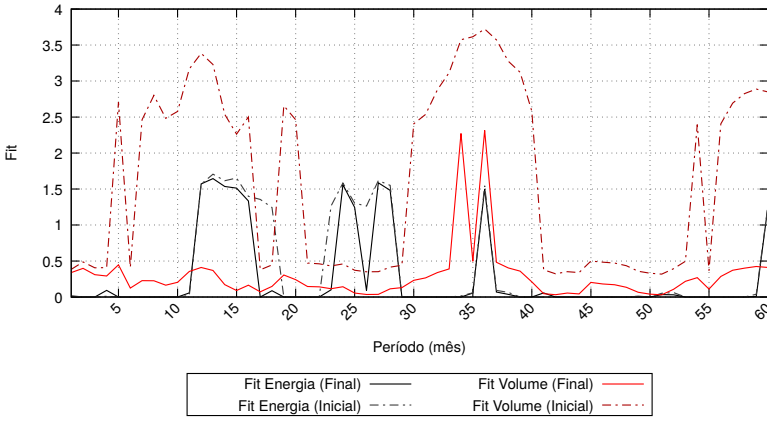
(a) CpMdPd

CpMdPd - Fit - Diferença



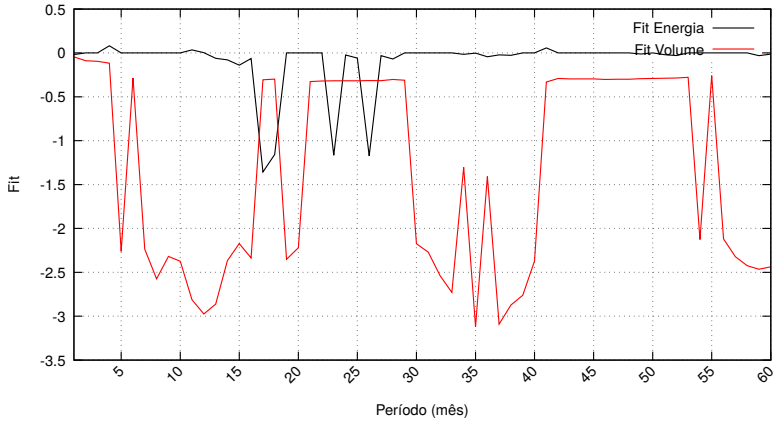
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



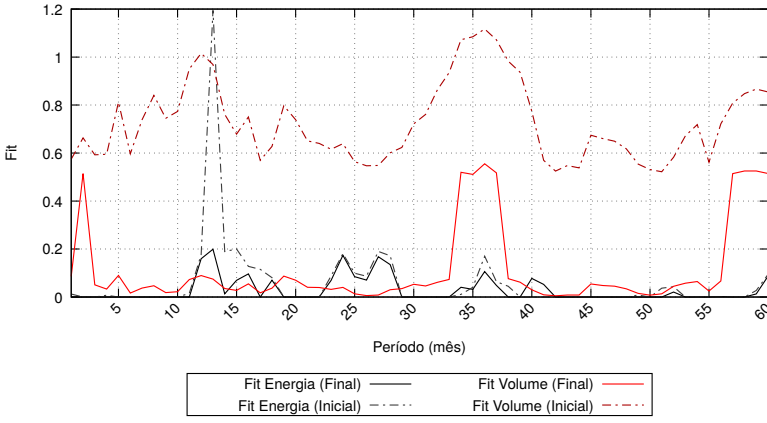
(a) CpMdPi

CpMdPi - Fit - Diferença



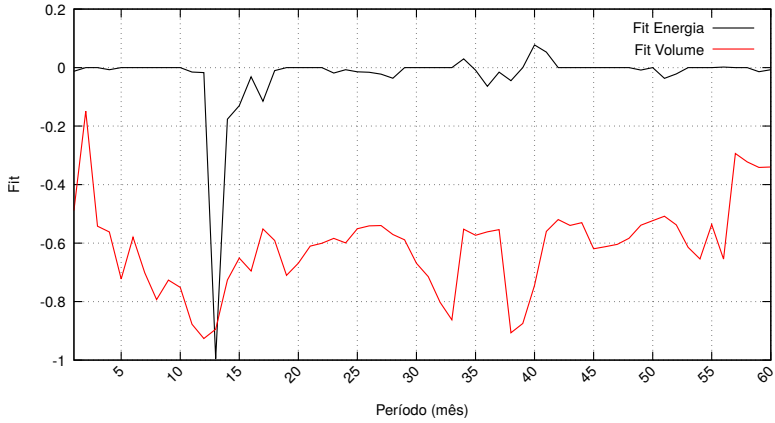
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



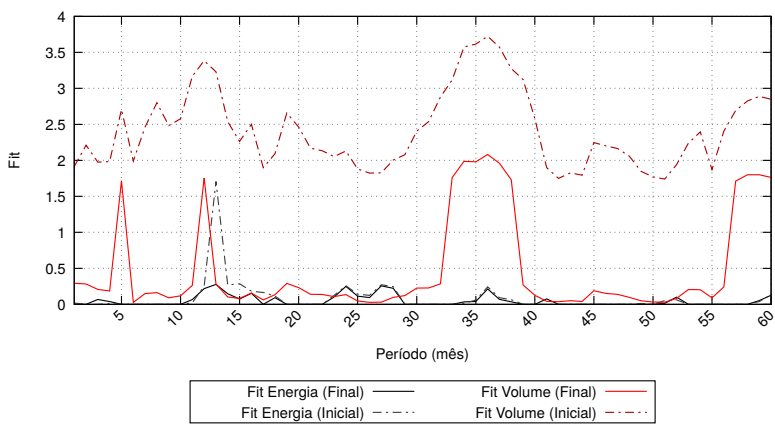
(a) CpMiPd

CpMiPd - Fit - Diferença



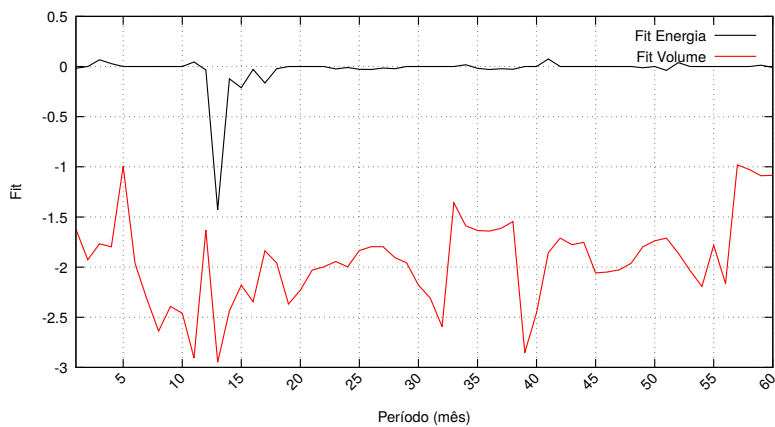
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



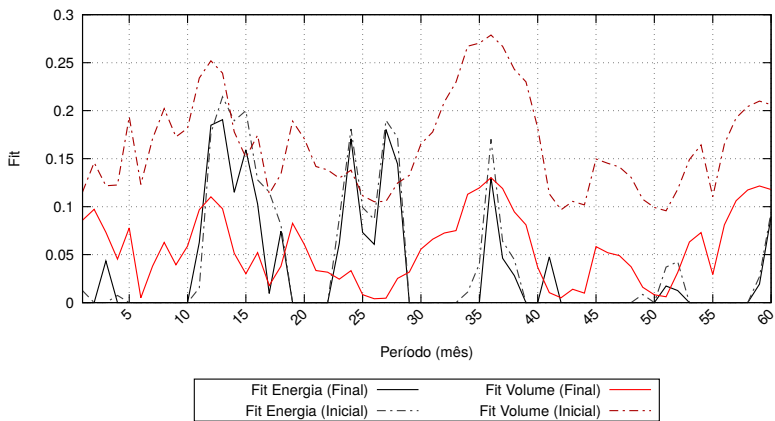
(a) CpMiPi

CpMiPi - Fit - Diferença



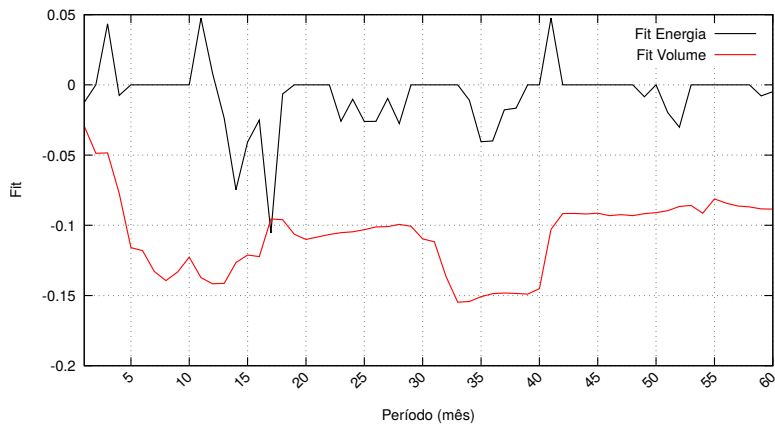
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



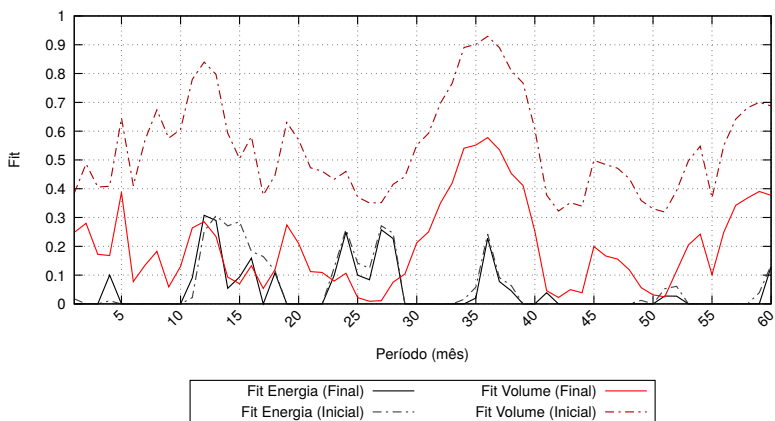
(a) SpPd

SpPd - Fit - Diferença



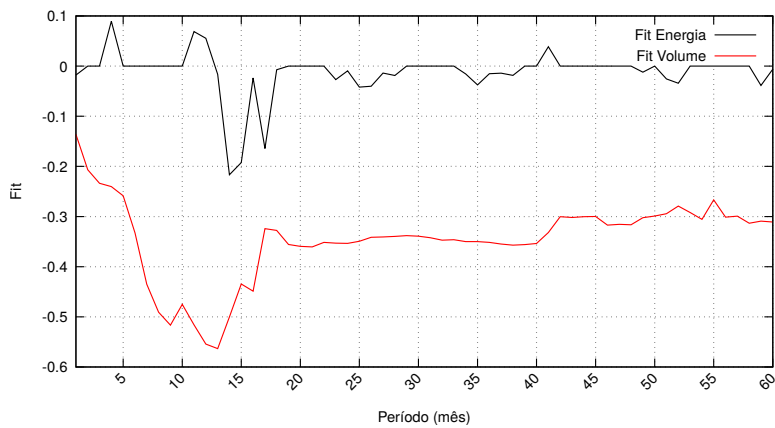
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



(a) SpPi

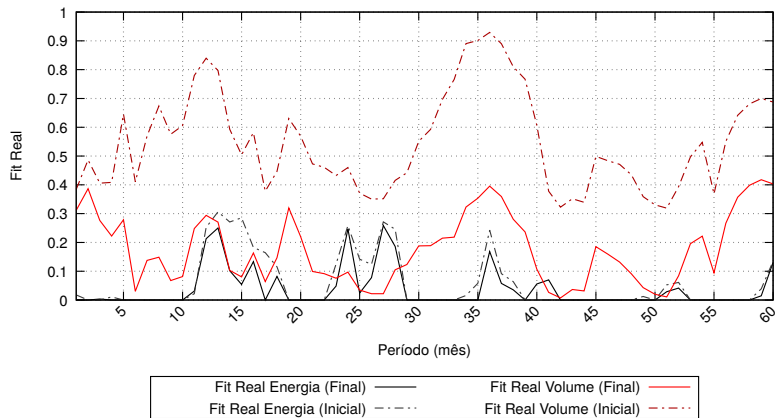
SpPi - Fit - Diferença



(b) SpPi

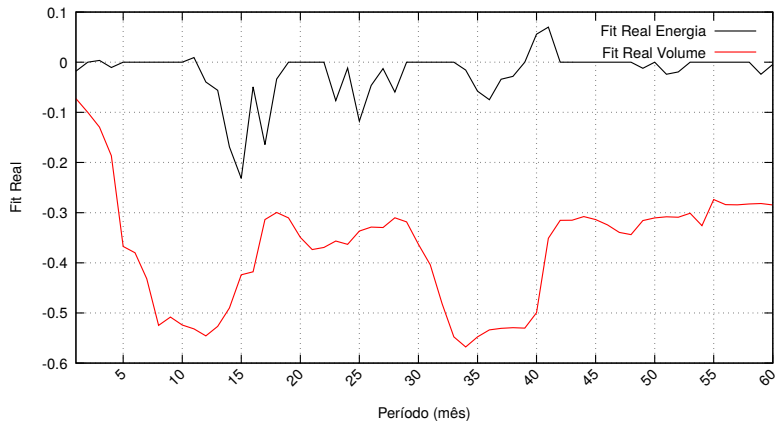
5.3 Energia/Volume RealFit

CpMdPd - Real Fit - Plano Inicial x Plano Final



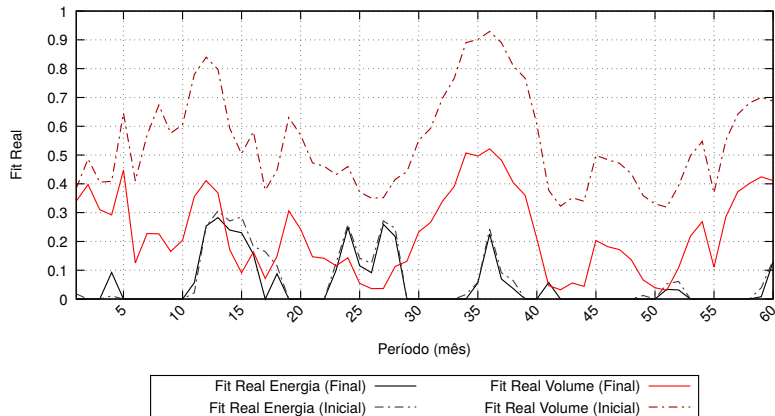
(a) CpMdPd

CpMdPd - Real Fit - Diferença



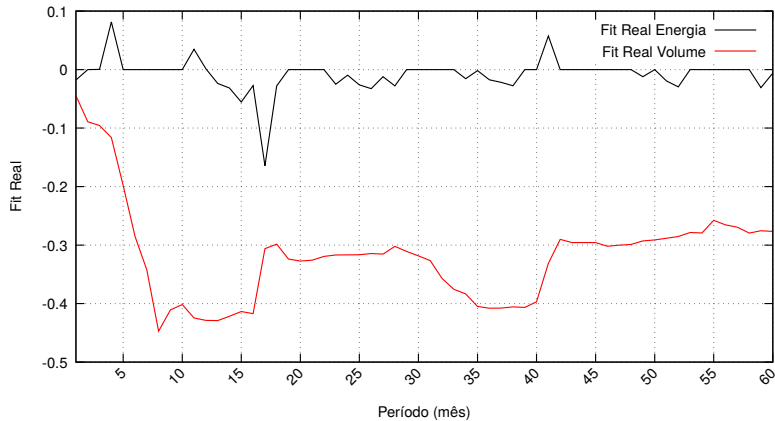
(b) CpMdPd

CpMdPi - Real Fit - Plano Inicial x Plano Final



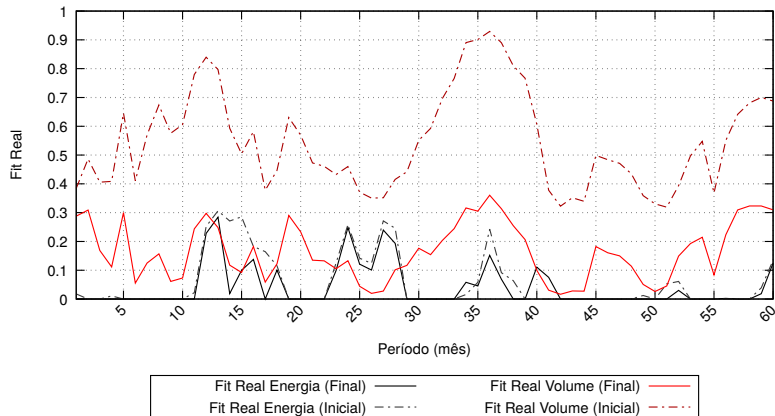
(a) CpMdPi

CpMdPi - Real Fit - Diferença



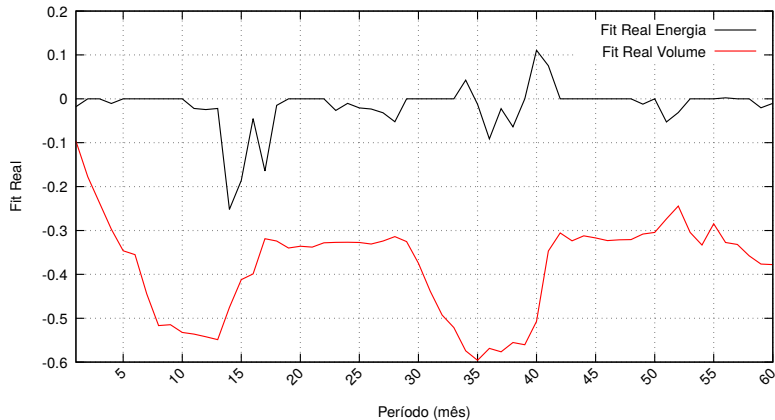
(b) CpMdPi

CpMiPd - Real Fit - Plano Inicial x Plano Final



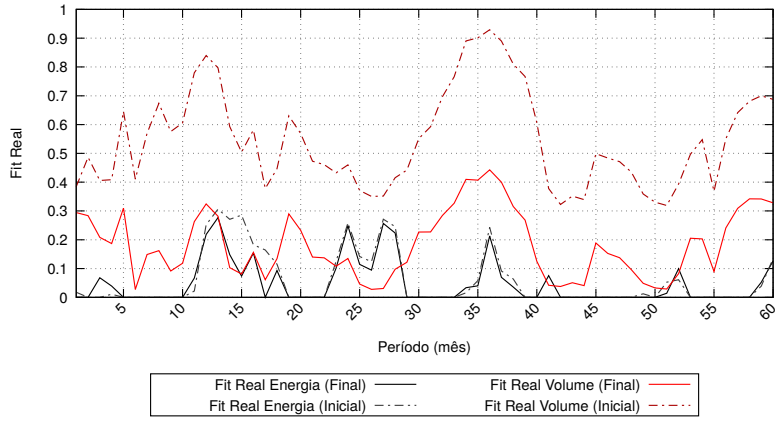
(a) CpMiPd

CpMiPd - Real Fit - Diferença



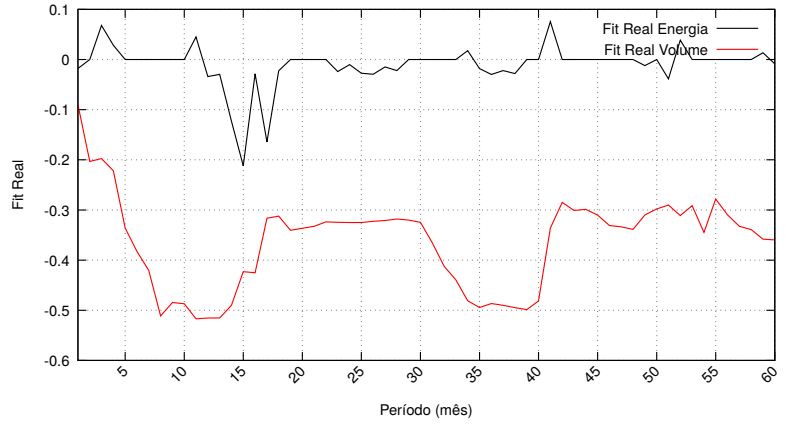
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



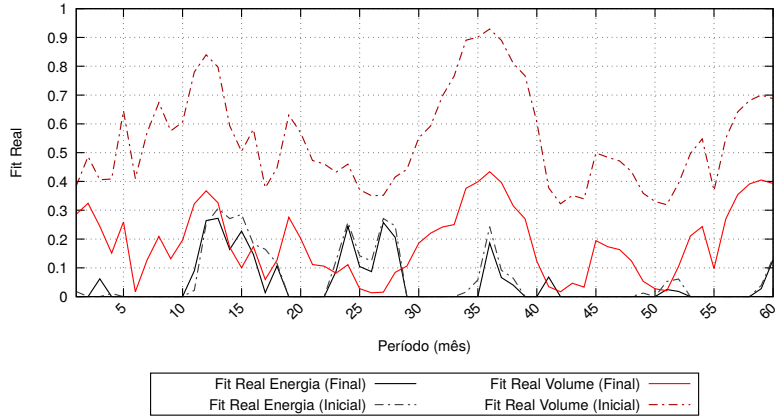
(a) CpMiPi

CpMiPi - Real Fit - Diferença



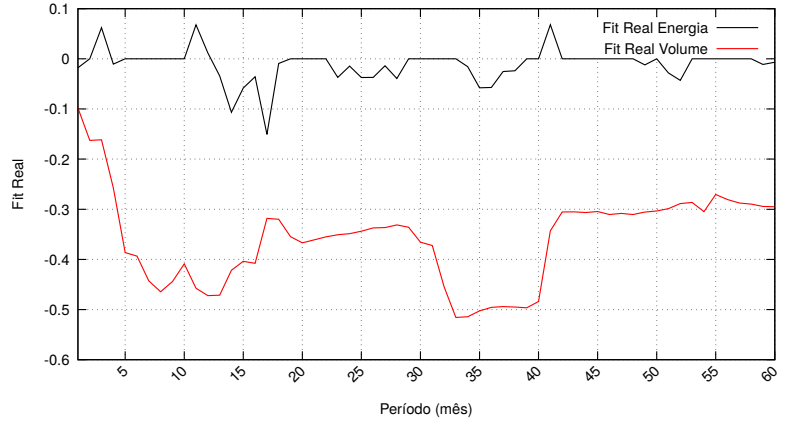
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



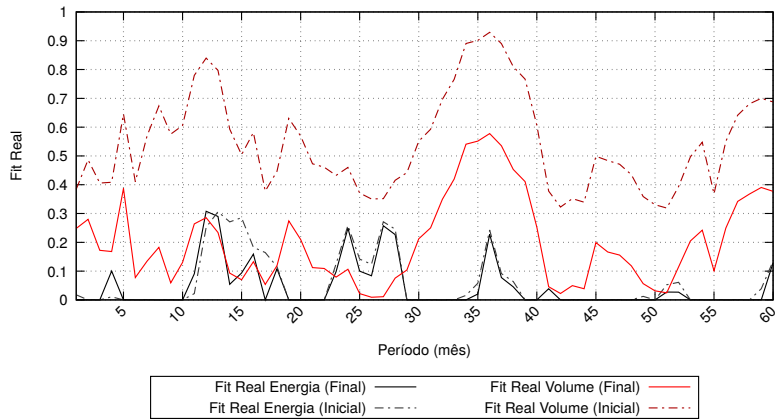
(a) SpPd

SpPd - Real Fit - Diferença



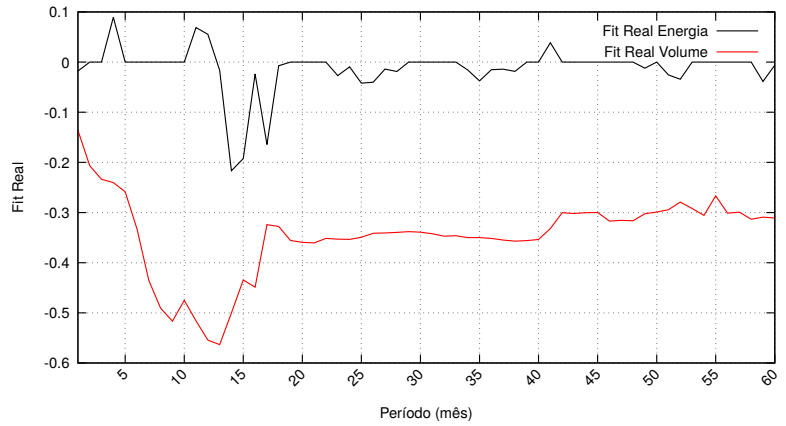
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

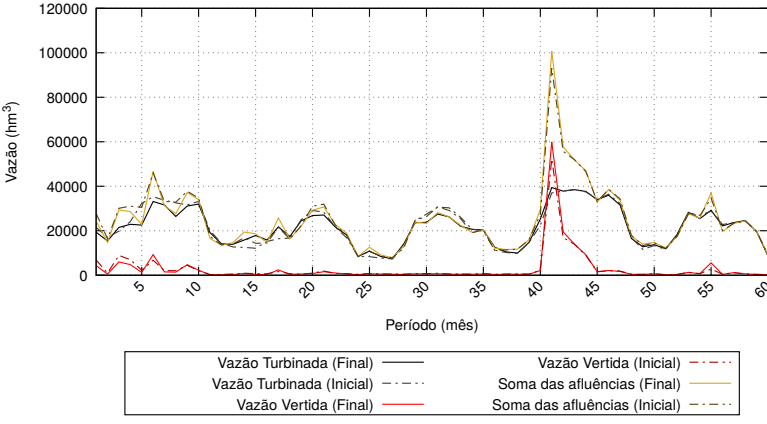
SpPi - Real Fit - Diferença



(b) SpPi

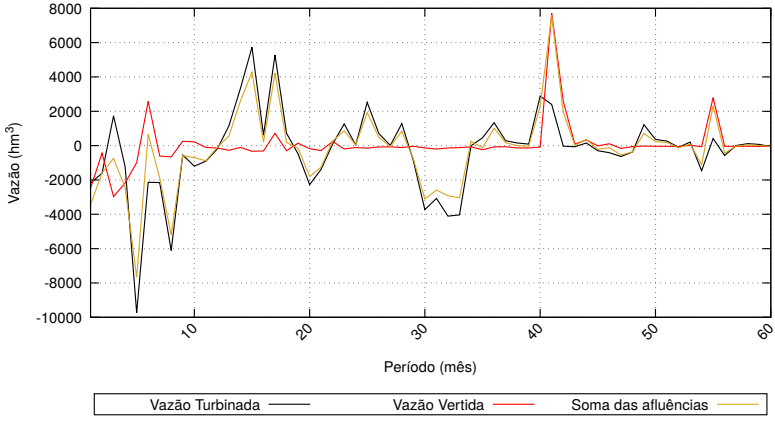
5.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



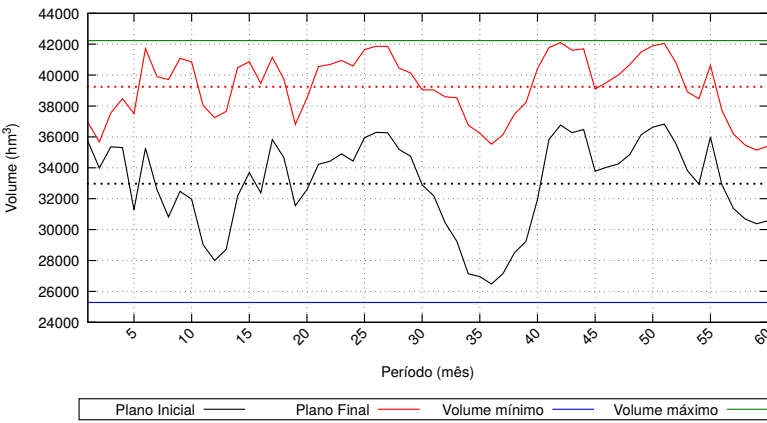
(a) CpMdPd

CpMdPd - Vazão - Diferença



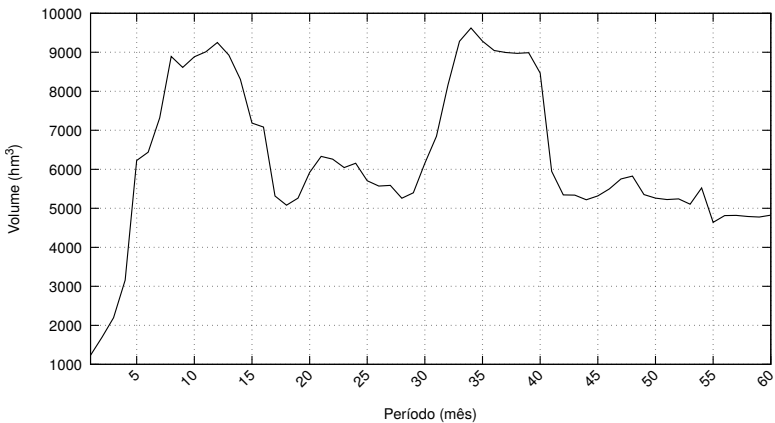
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



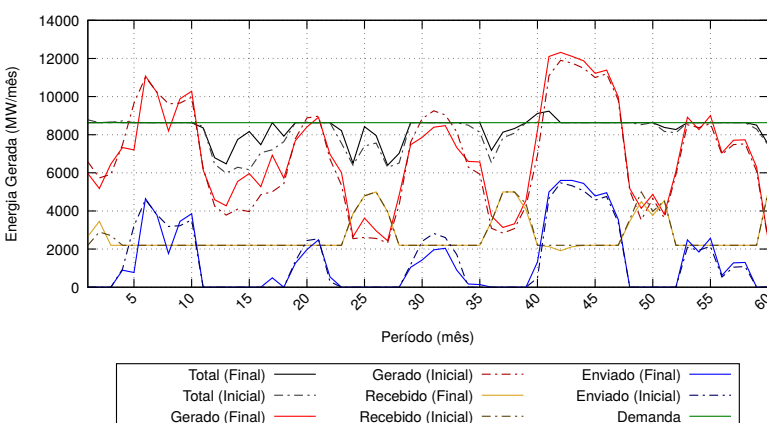
(a) CpMdPd

CpMdPd - Volume - Diferença



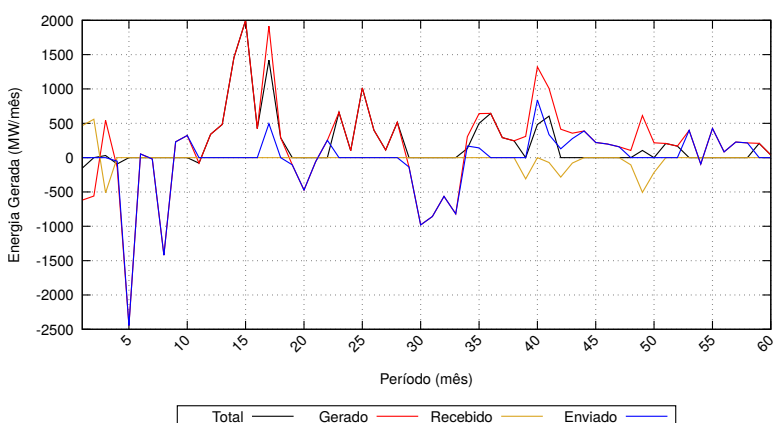
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

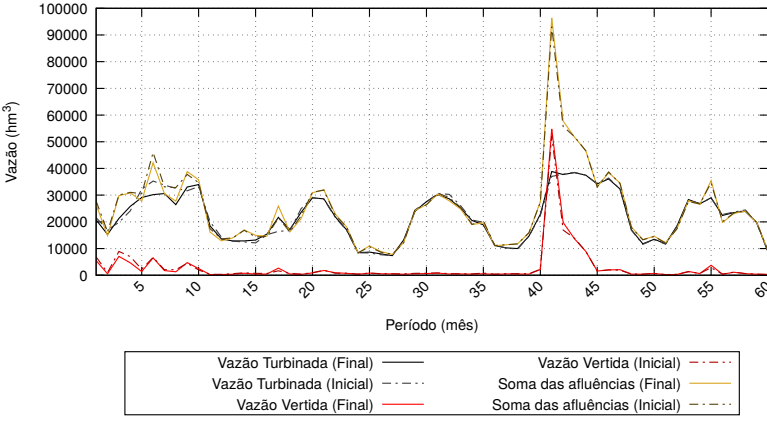
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

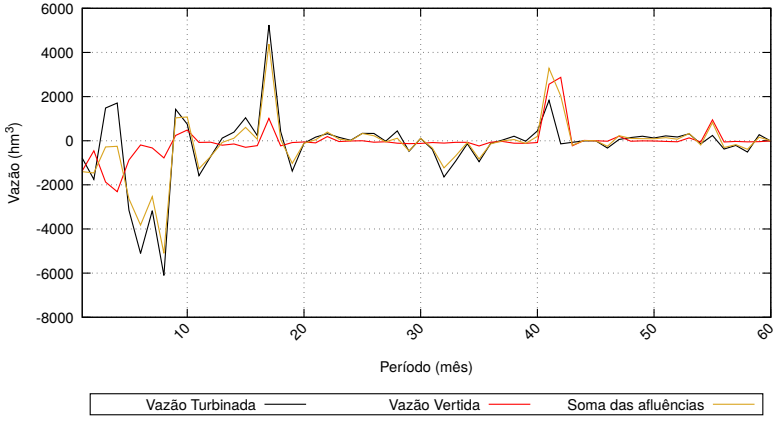
5.5 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



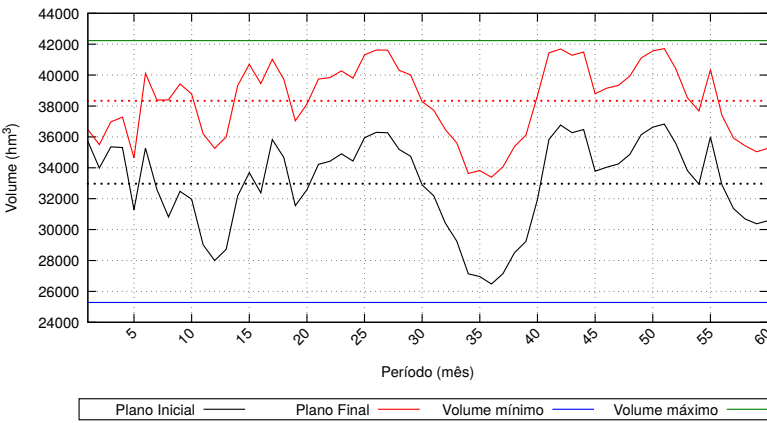
(a) CpMdPi

CpMdPi - Vazão - Diferença



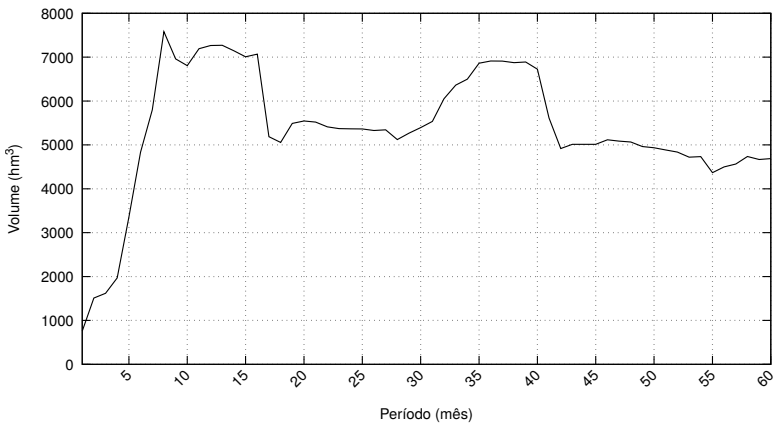
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



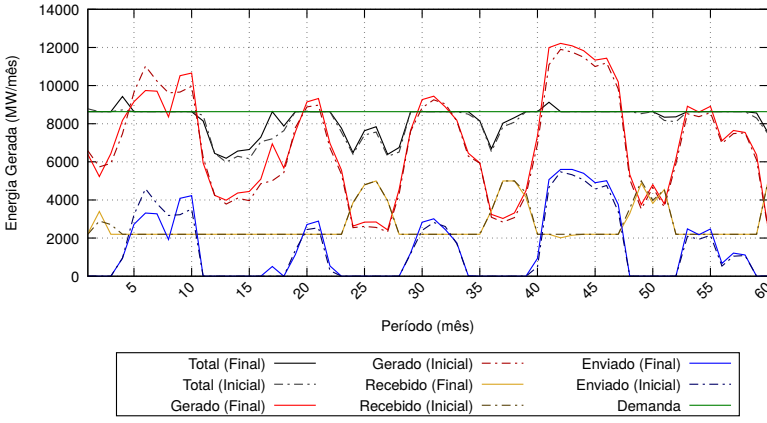
(a) CpMdPi

CpMdPi - Volume - Diferença



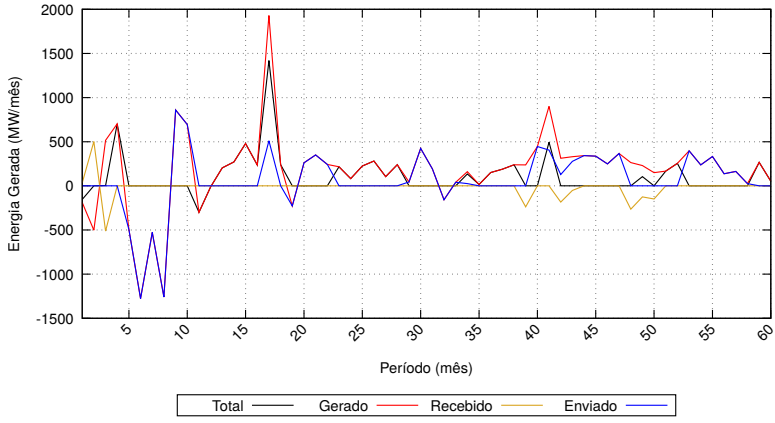
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

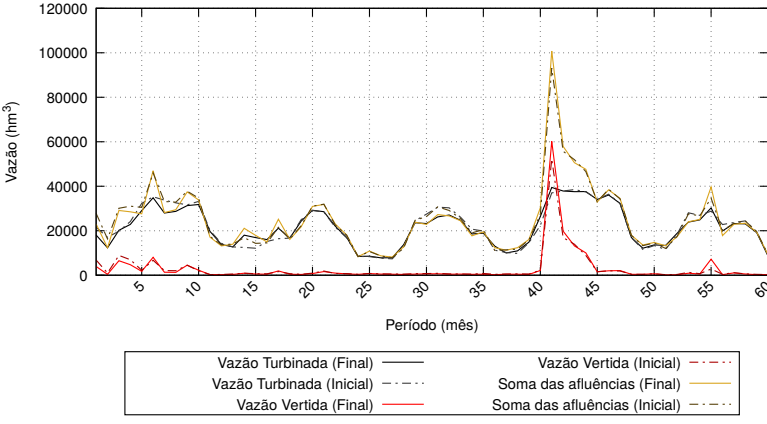
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

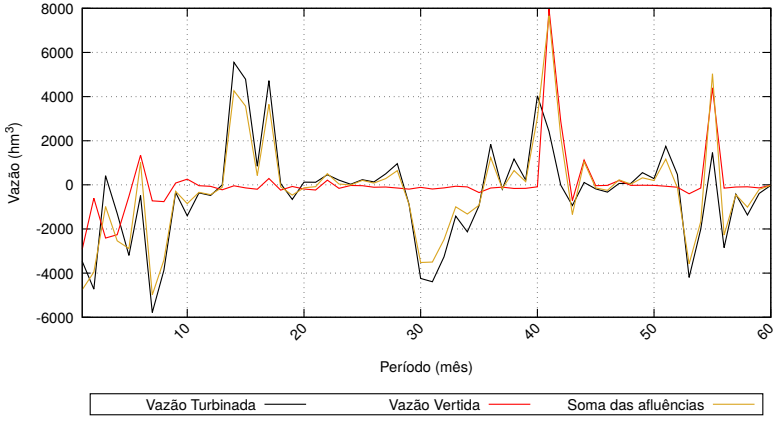
5.6 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



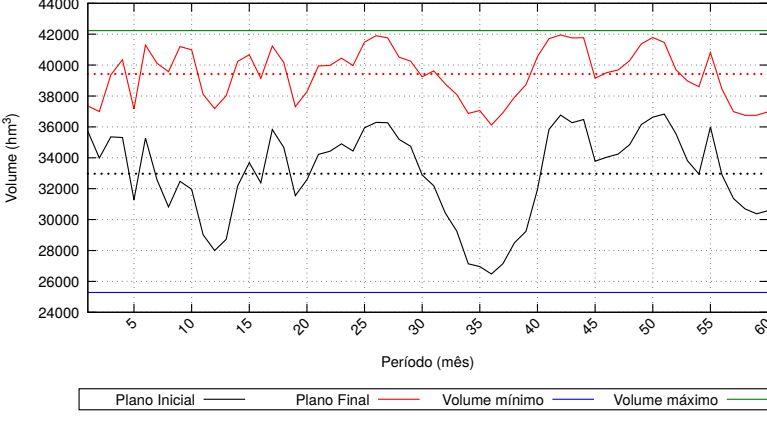
(a) CpMiPd

CpMiPd - Vazão - Diferença



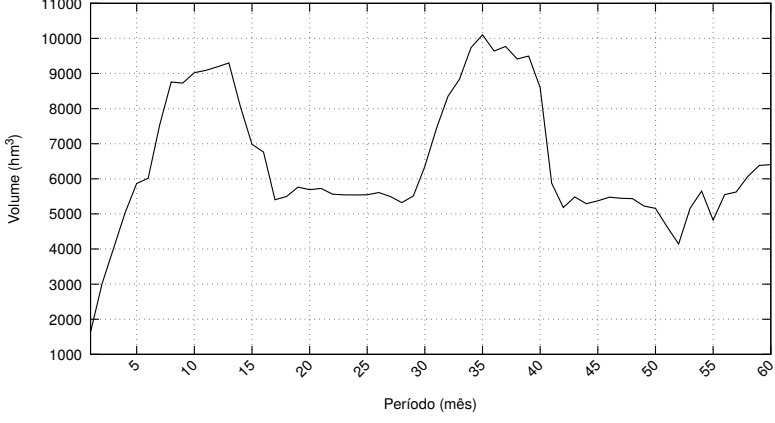
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



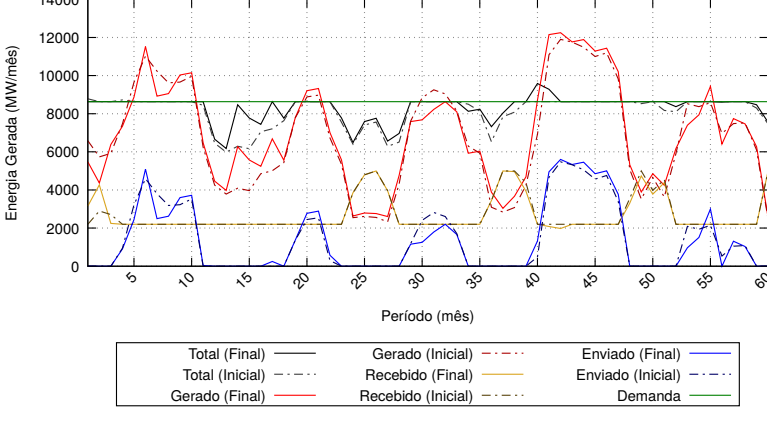
(a) CpMiPd

CpMiPd - Volume - Diferença



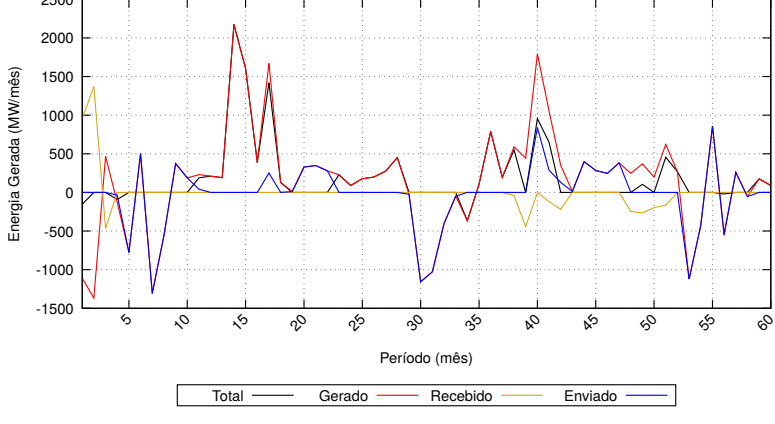
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

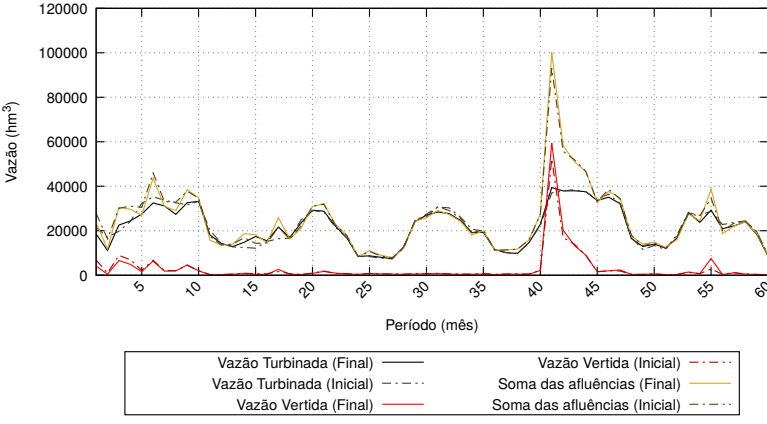
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

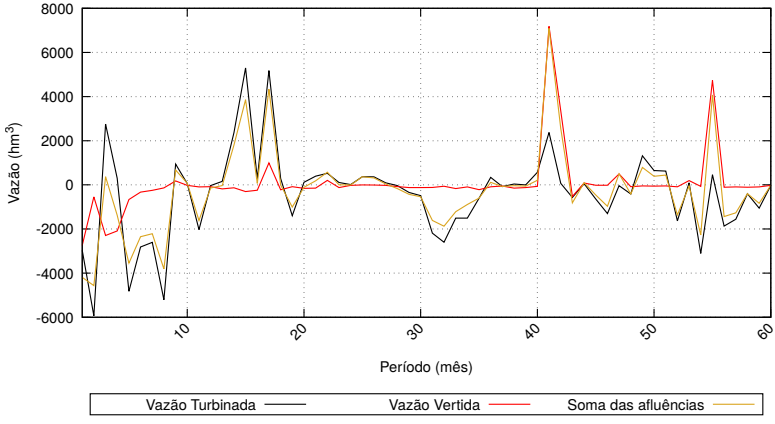
5.7 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



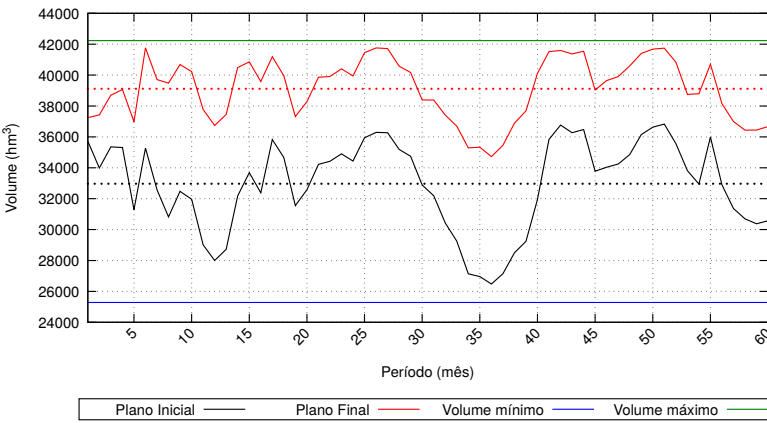
(a) CpMiPi

CpMiPi - Vazão - Diferença



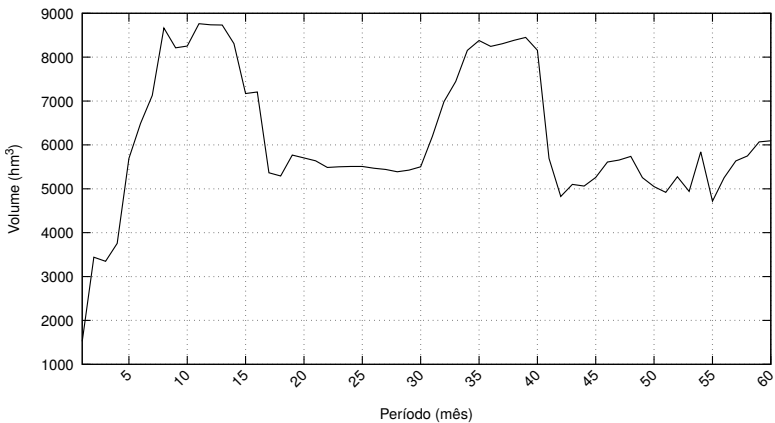
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



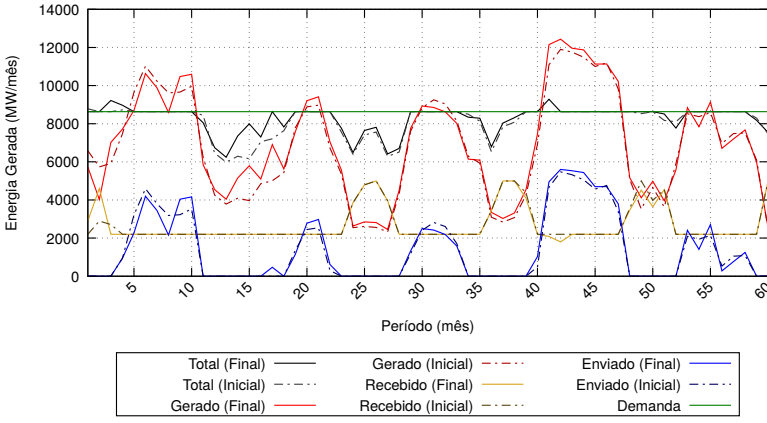
(a) CpMiPi

CpMiPi - Volume - Diferença



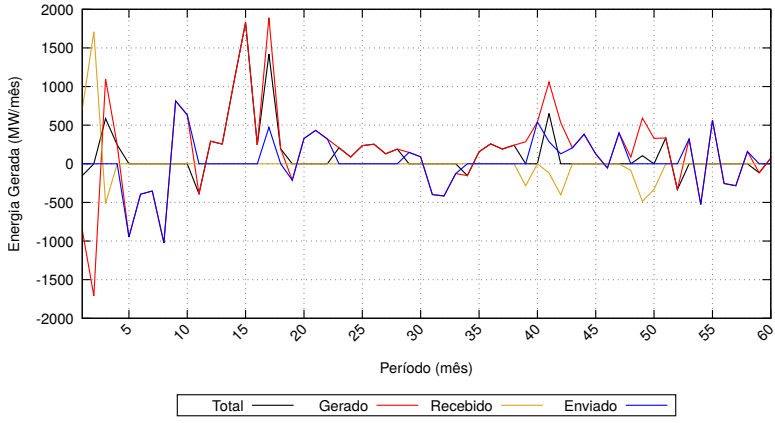
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

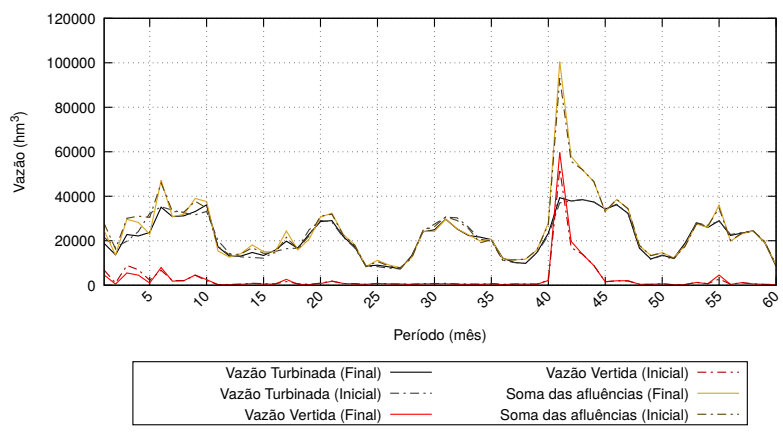
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

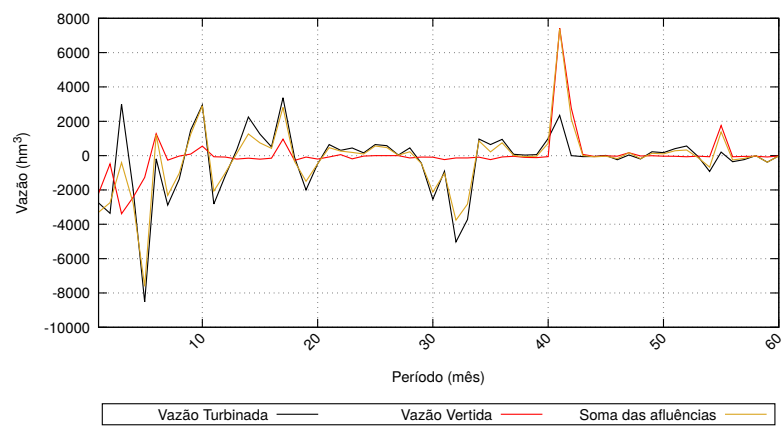
5.8 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



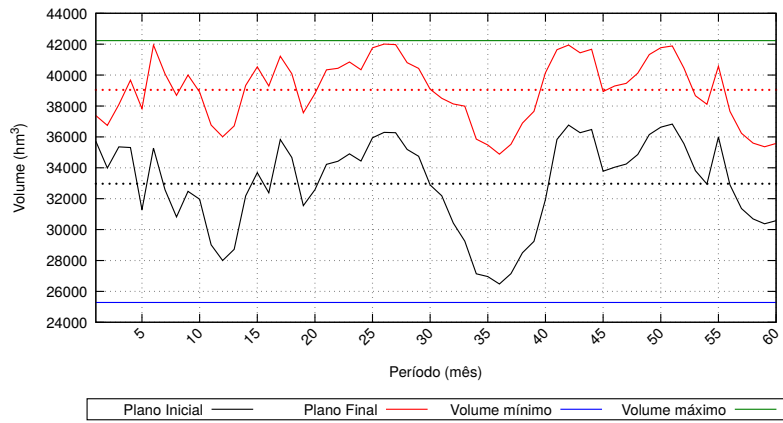
(a) SpPd

SpPd - Vazão - Diferença



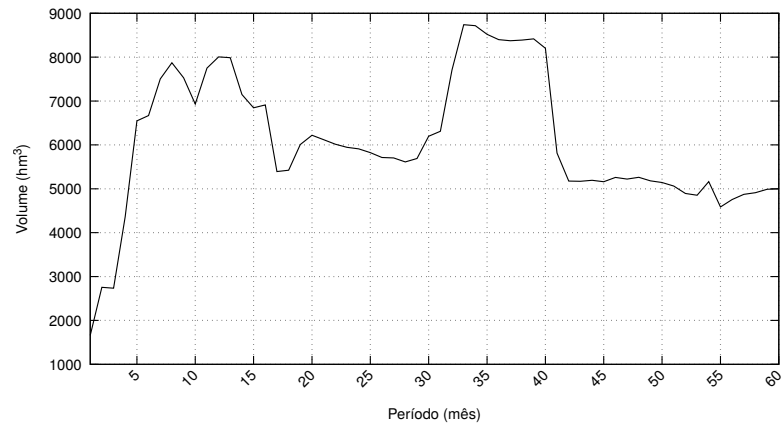
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



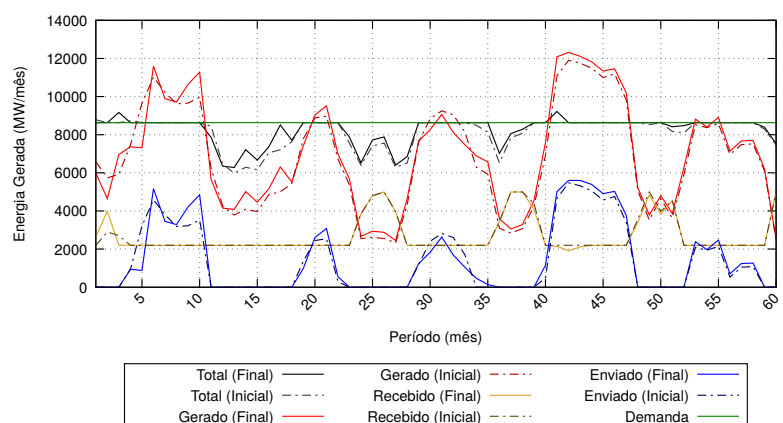
(a) SpPd

SpPd - Volume - Diferença



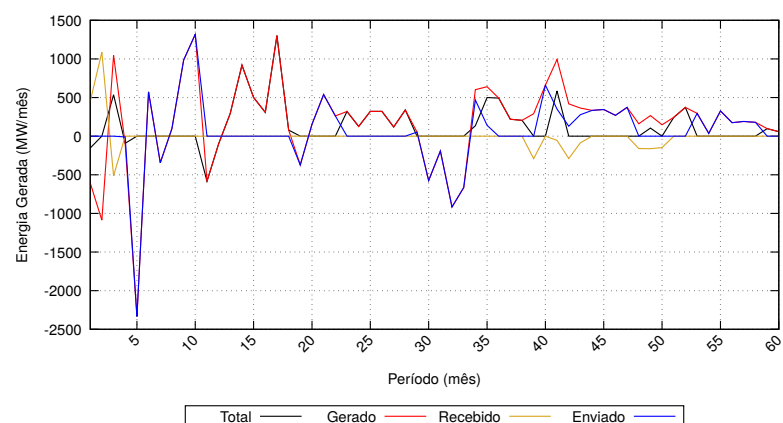
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

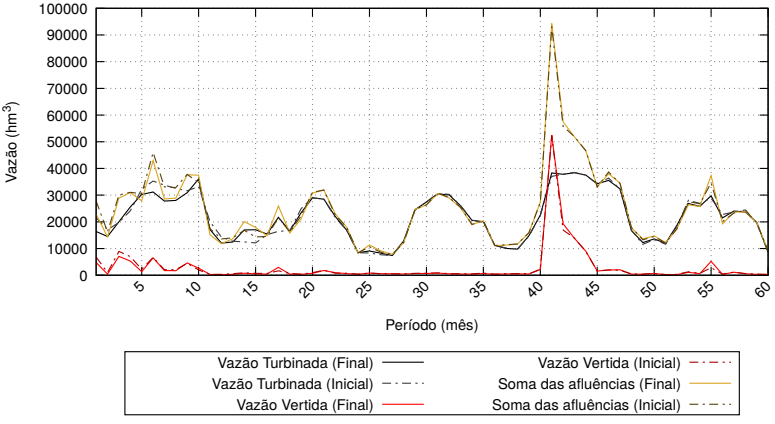
SpPd - Energia Gerada - Diferença



(b) SpPd

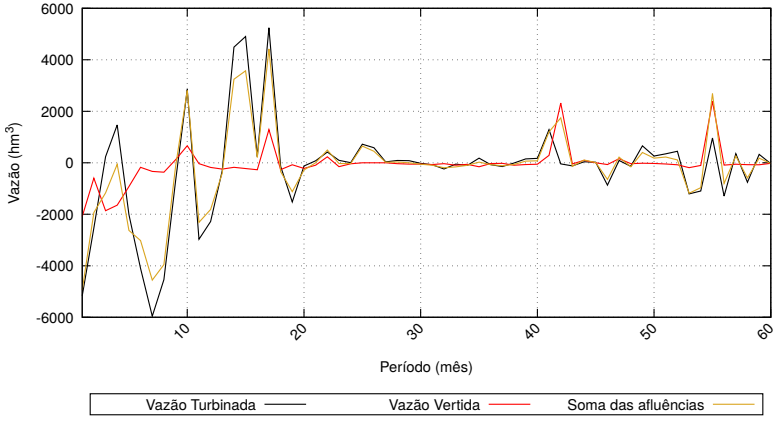
5.9 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



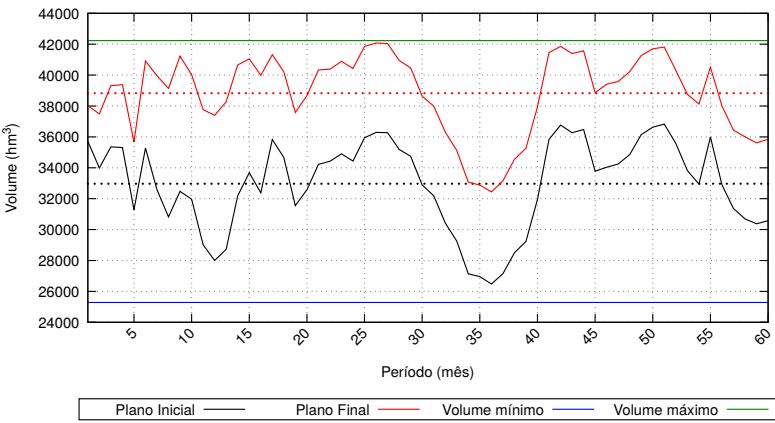
(a) SpPi

SpPi - Vazão - Diferença



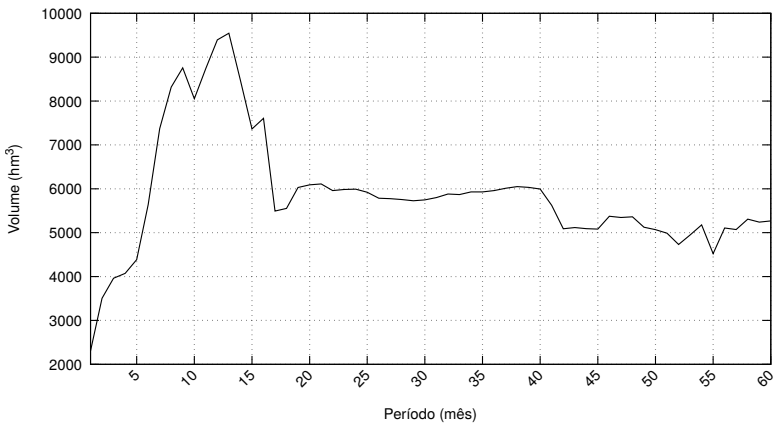
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



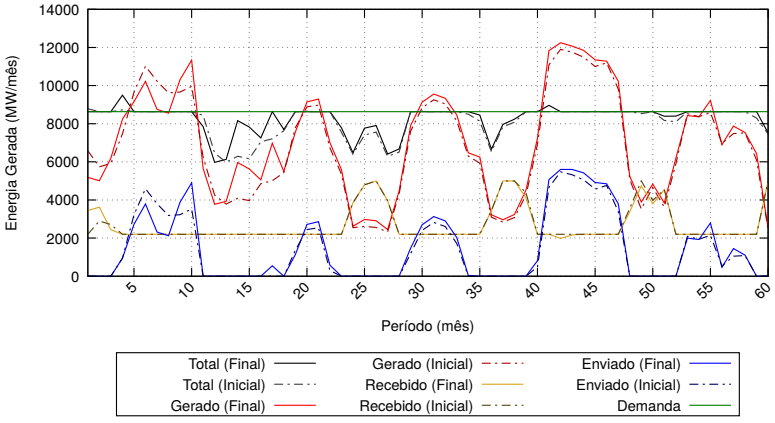
(a) SpPi

SpPi - Volume - Diferença



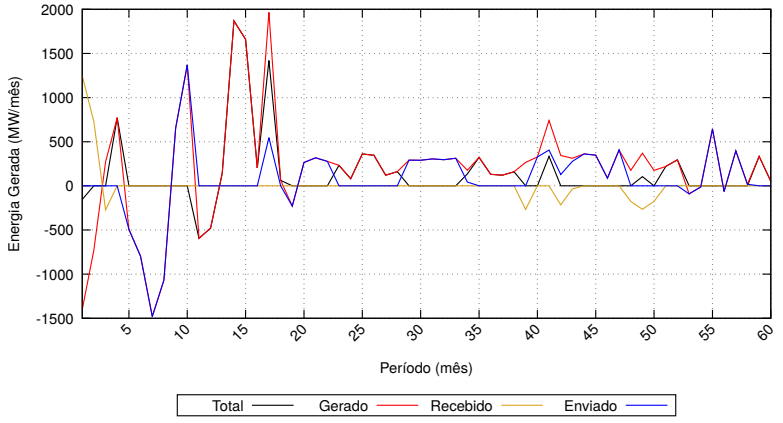
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

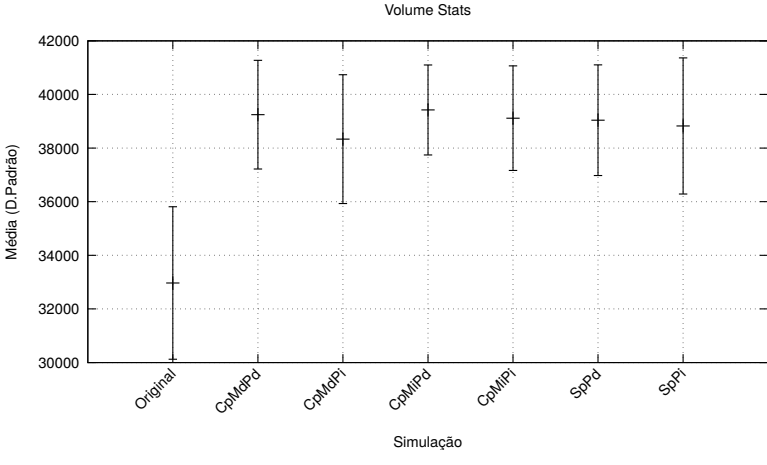


(b) SpPi

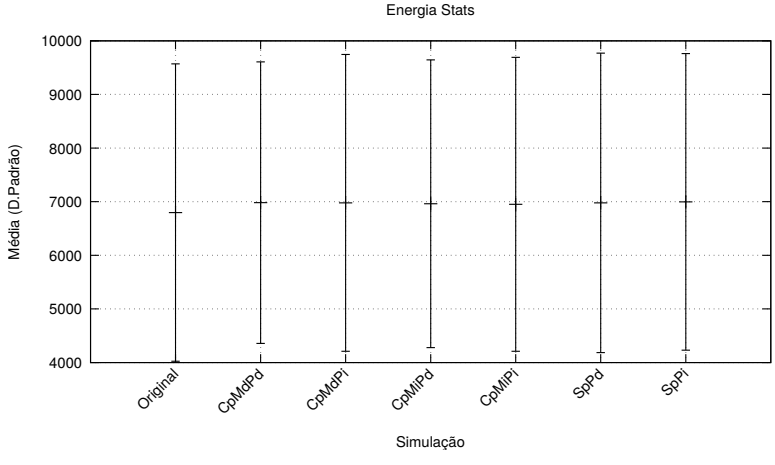
5.10 GPlan Stats

Tabela 10: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	32966.79924	2844.81748	6797.51479	2773.77243
CpMdPd	39246.23274	2027.72337	6983.05076	2624.95198
CpMdPi	38333.63203	2401.23803	6978.25522	2767.91375
CpMiPd	39422.53678	1676.90824	6961.00908	2683.22225
CpMiPi	39115.04497	1950.11399	6951.95245	2741.17612
SpPd	39041.23820	2063.36419	6978.37881	2792.21154
SpPi	38825.89808	2539.28517	6997.12178	2765.32792



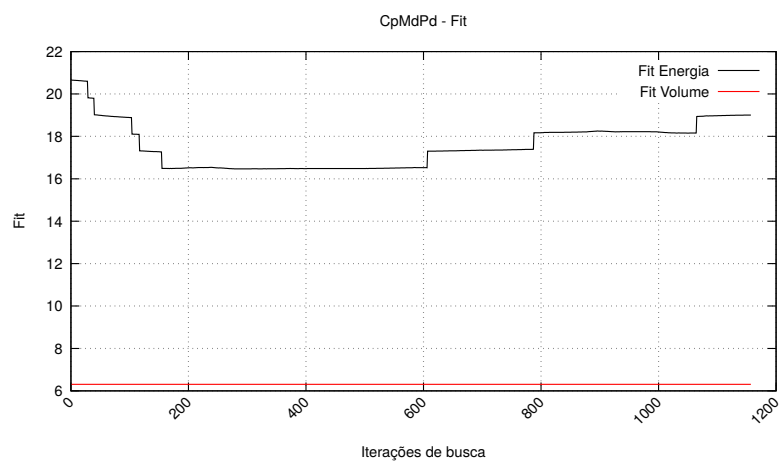
(a) Volume



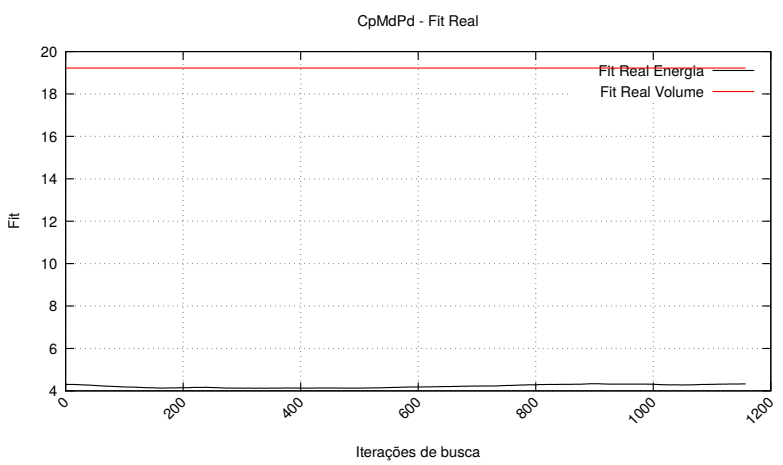
(b) Energia

6 SubSistema 3

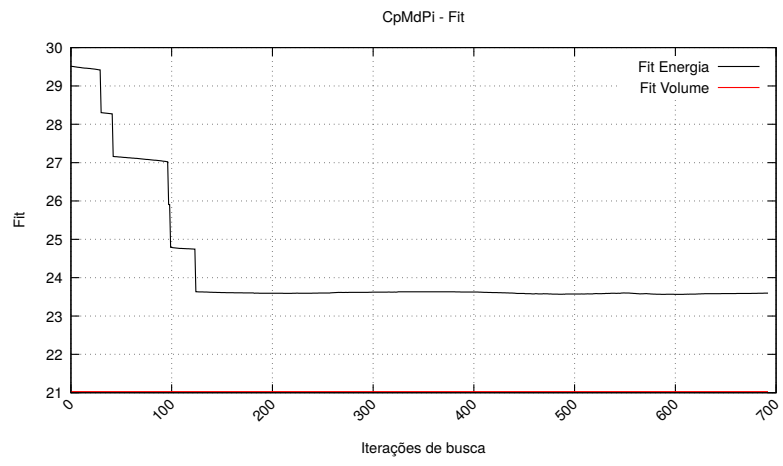
6.1 Fit/RealFit



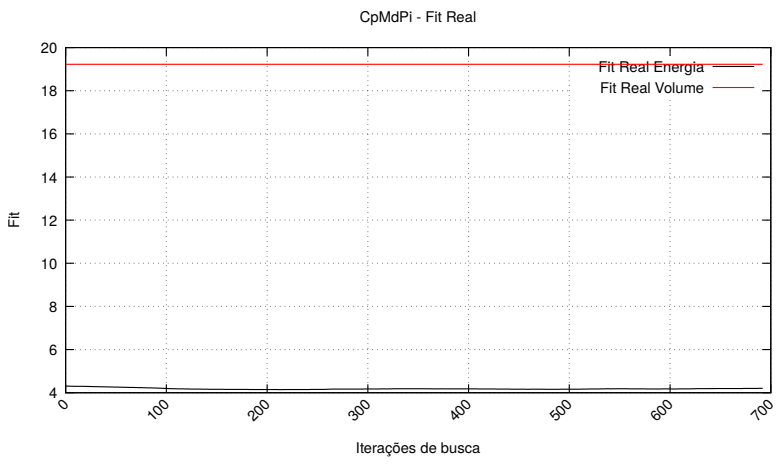
(a) CpMdPd



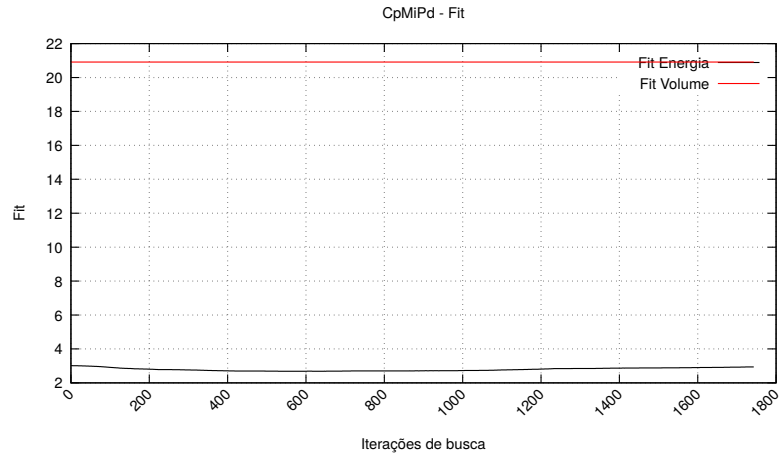
(b) CpMdPd



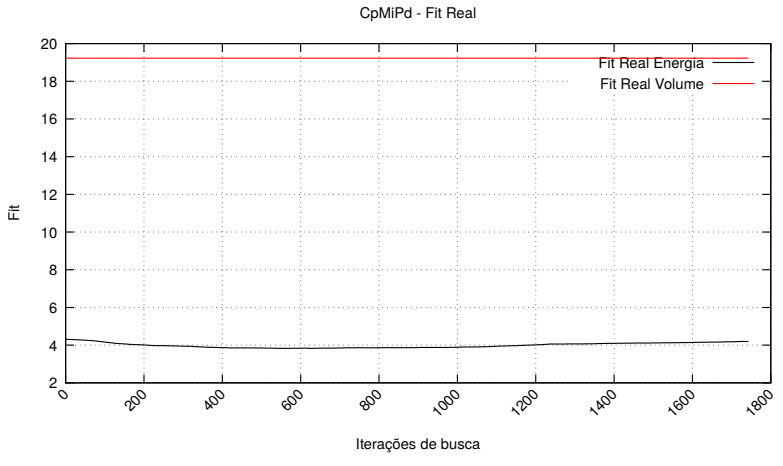
(a) CpMdPi



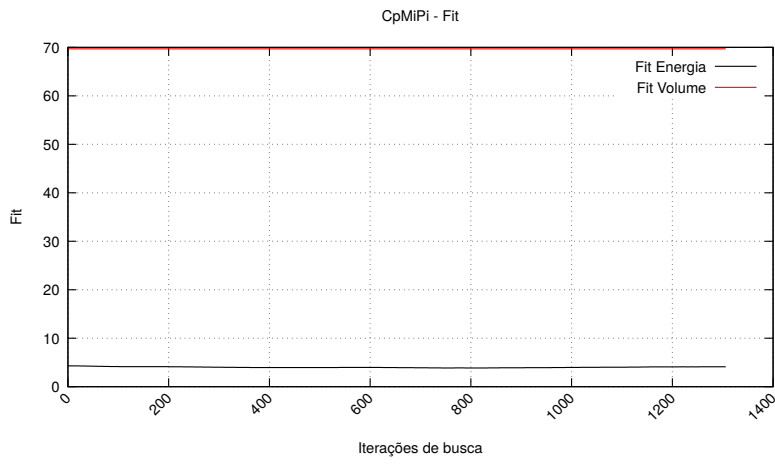
(b) CpMdPi



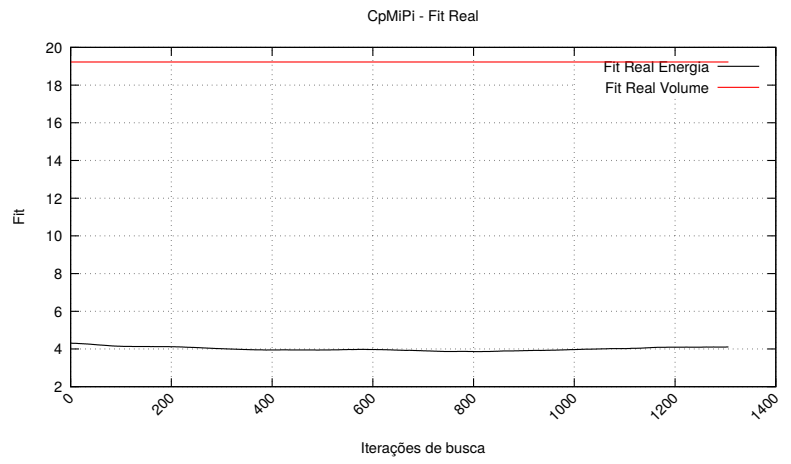
(a) CpMiPd



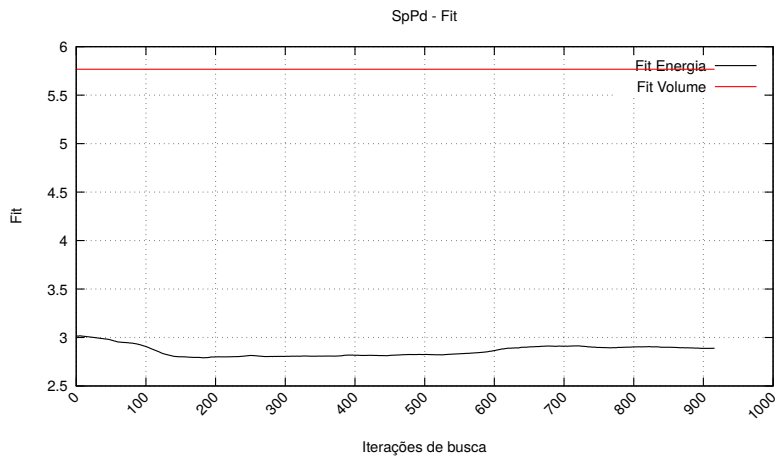
(b) CpMiPd



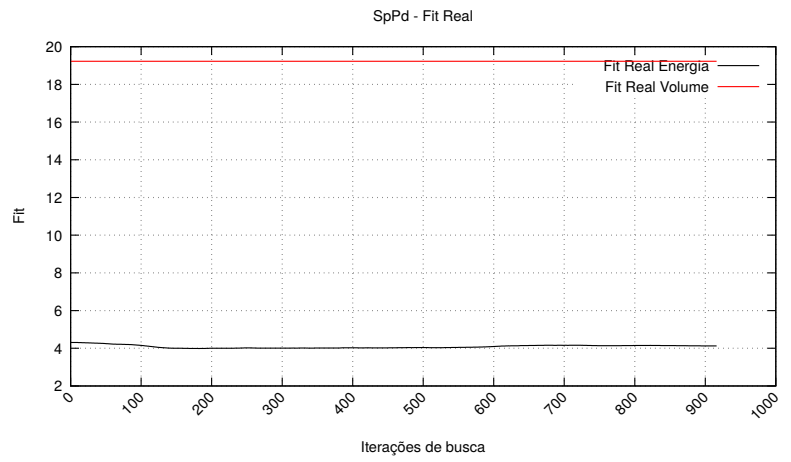
(a) CpMiPi



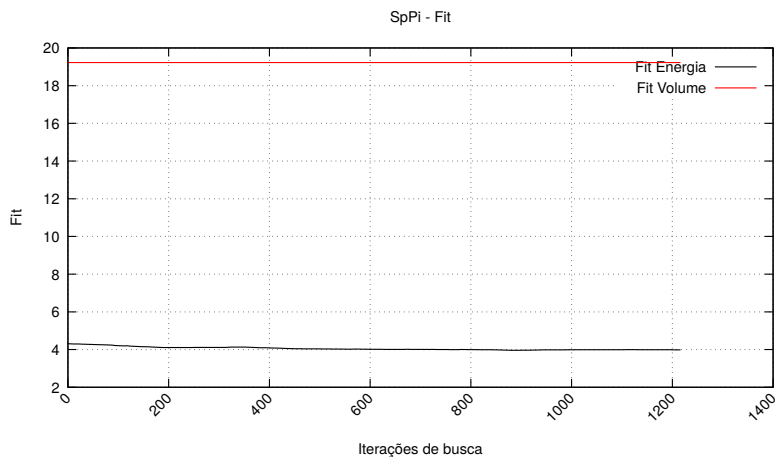
(b) CpMiPi



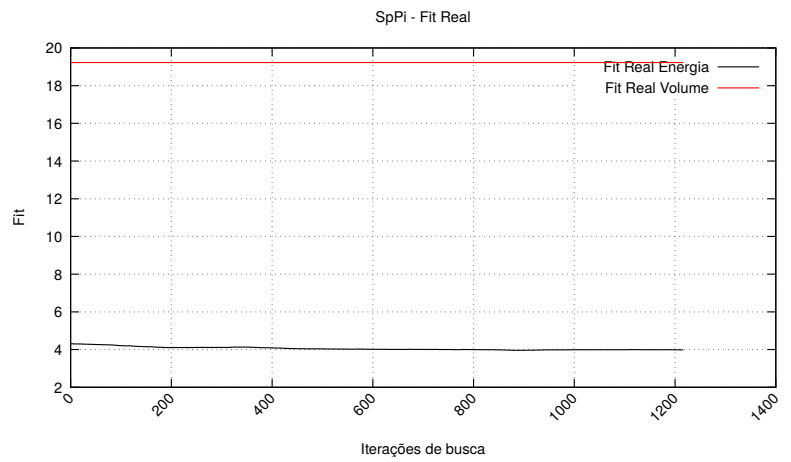
(a) SpPd



(b) SpPd



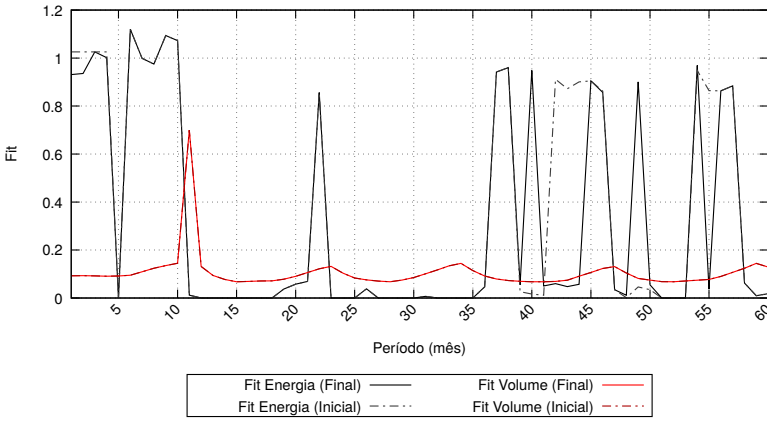
(a) SpPi



(b) SpPi

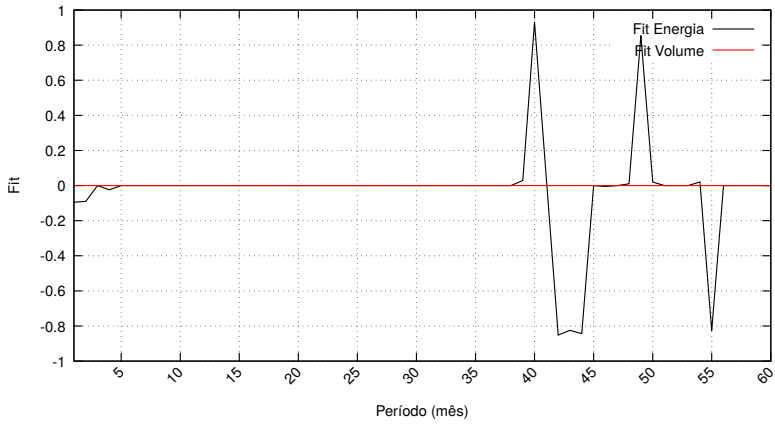
6.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



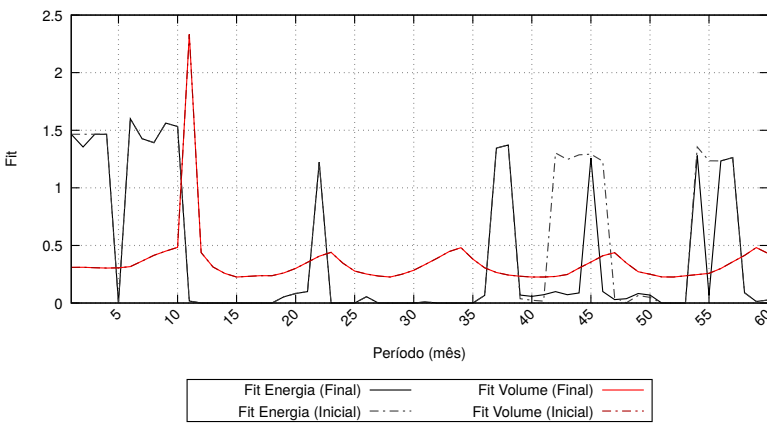
(a) CpMdPd

CpMdPd - Fit - Diferença



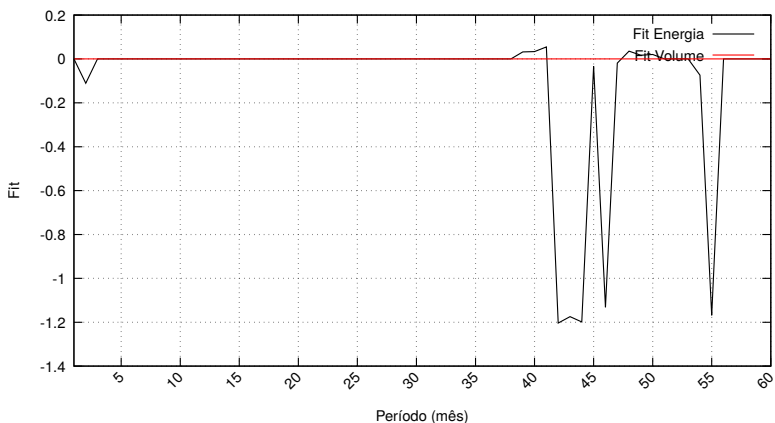
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



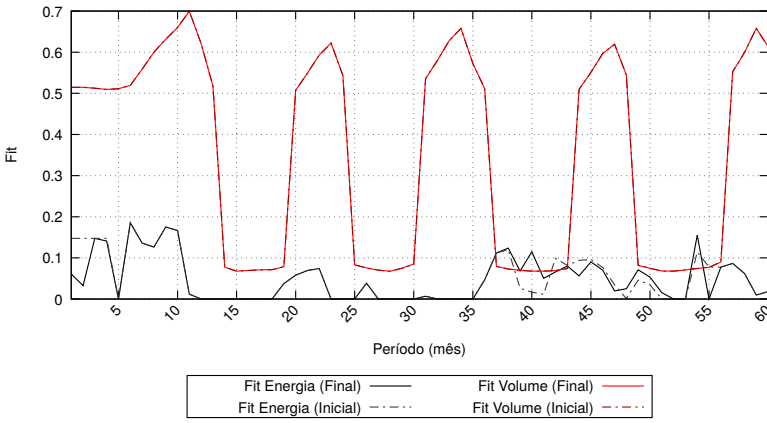
(a) CpMdPi

CpMdPi - Fit - Diferença



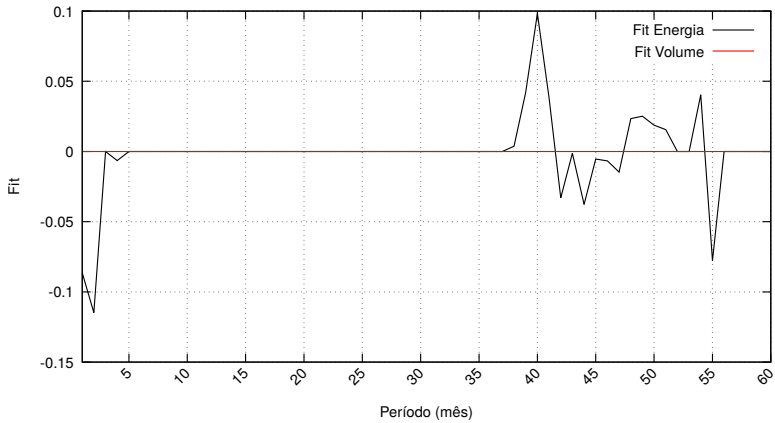
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



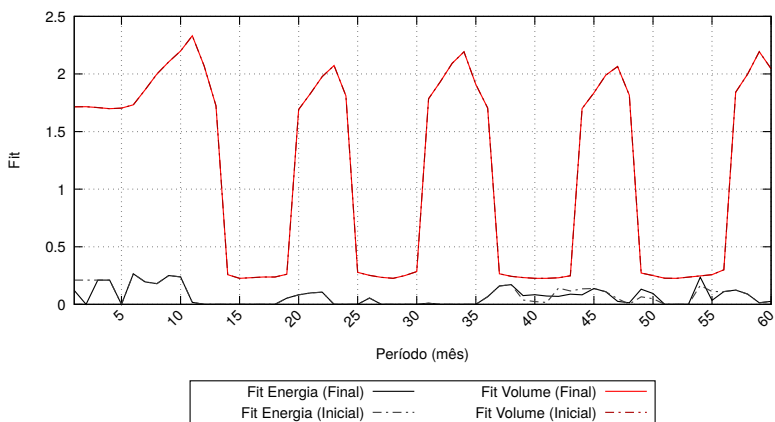
(a) CpMiPd

CpMiPd - Fit - Diferença



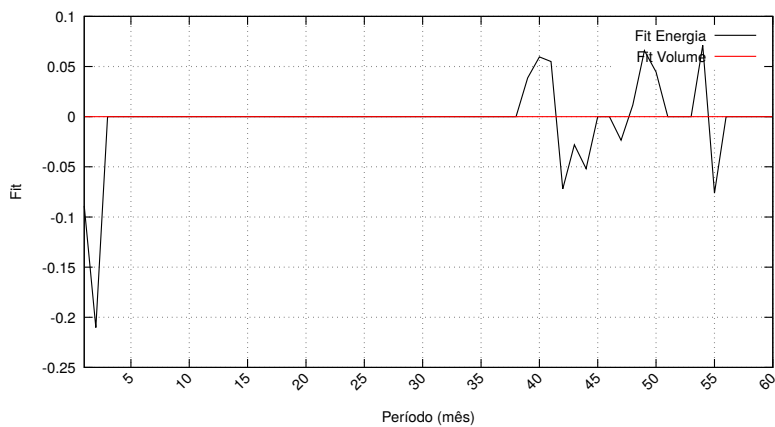
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



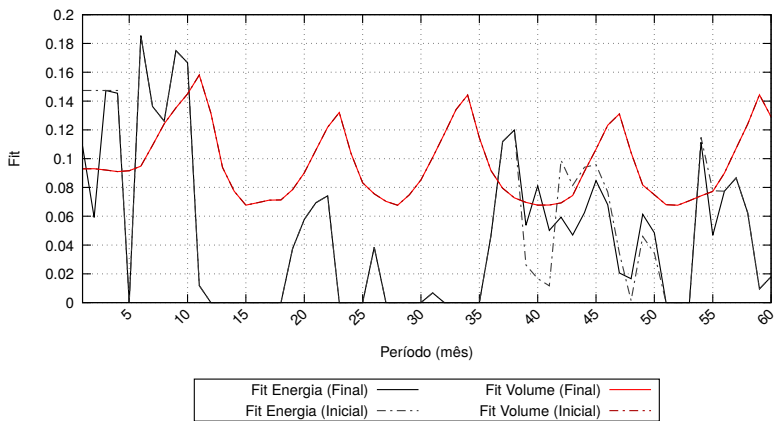
(a) CpMiPi

CpMiPi - Fit - Diferença



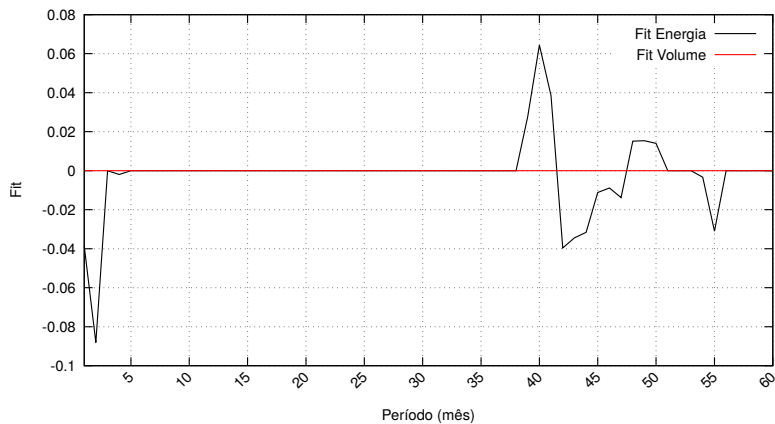
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



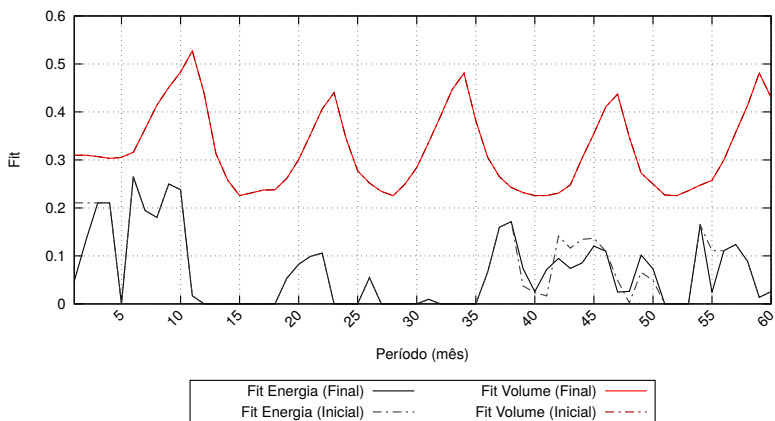
(a) SpPd

SpPd - Fit - Diferença



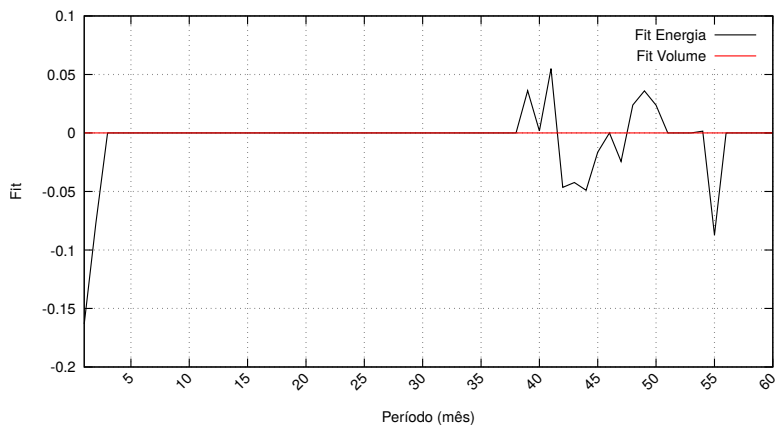
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



(a) SpPi

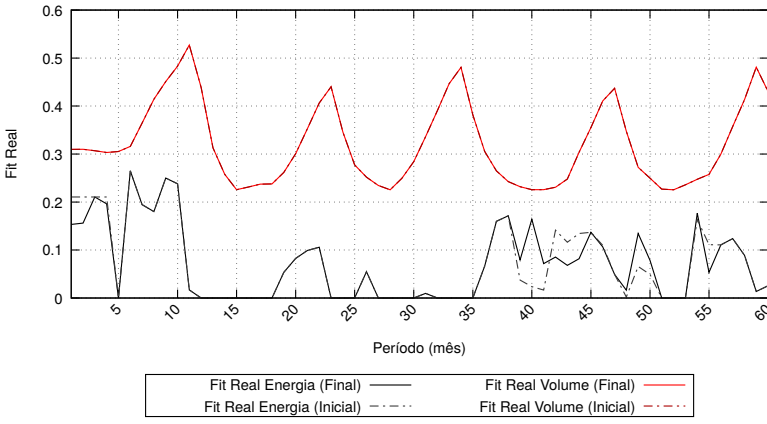
SpPi - Fit - Diferença



(b) SpPi

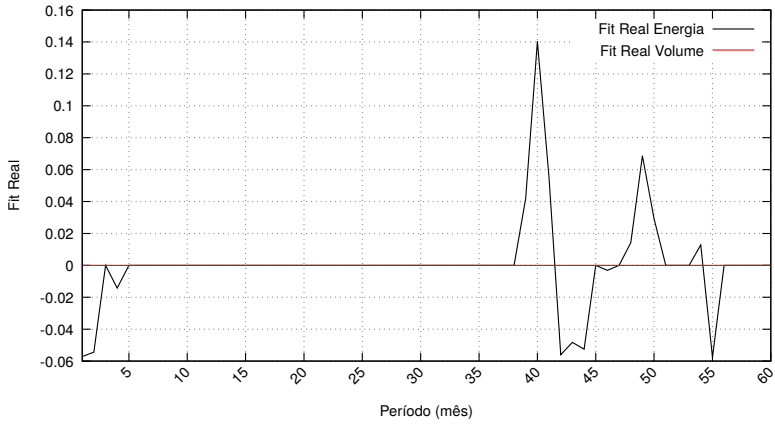
6.3 Energia/Volume RealFit

CpMdPd - Real Fit - Plano Inicial x Plano Final



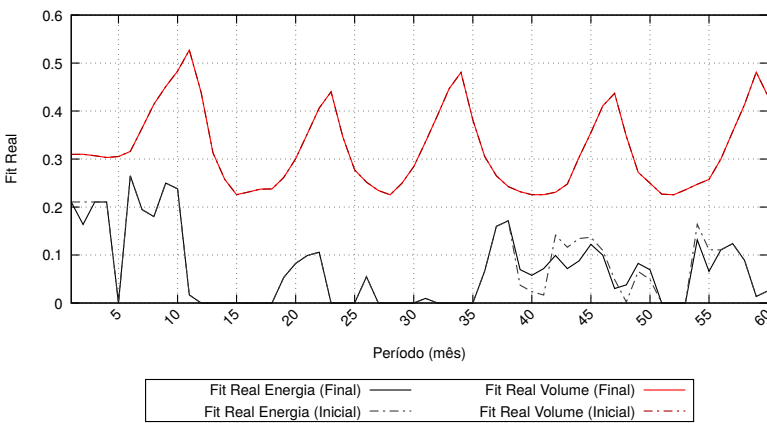
(a) CpMdPd

CpMdPd - Real Fit - Diferença



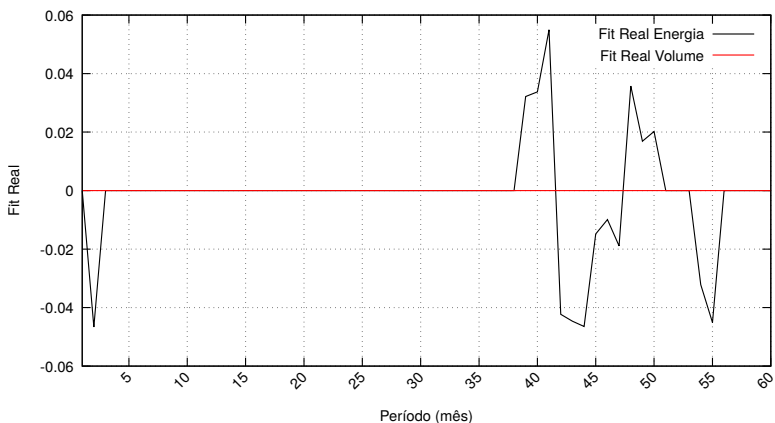
(b) CpMdPd

CpMdPi - Real Fit - Plano Inicial x Plano Final



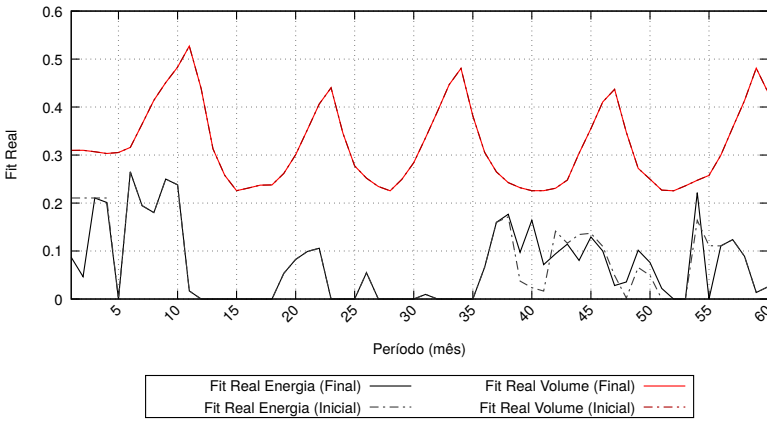
(a) CpMdPi

CpMdPi - Real Fit - Diferença



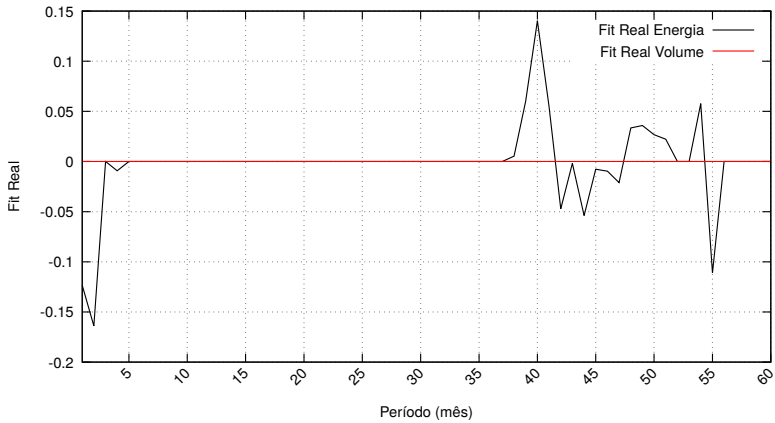
(b) CpMdPi

CpMiPd - Real Fit - Plano Inicial x Plano Final



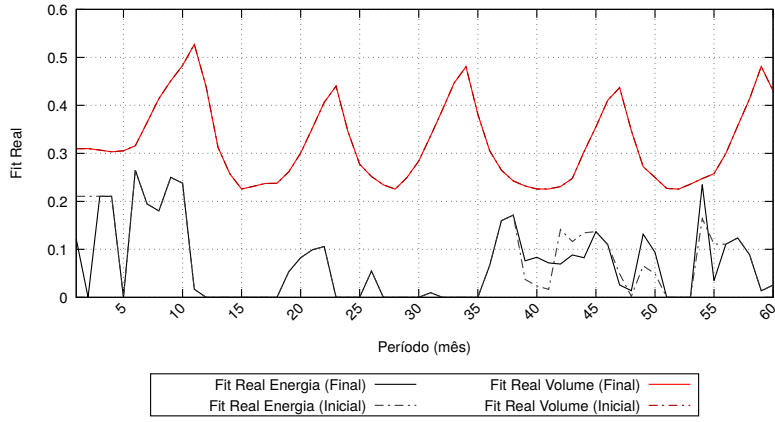
(a) CpMiPd

CpMiPd - Real Fit - Diferença



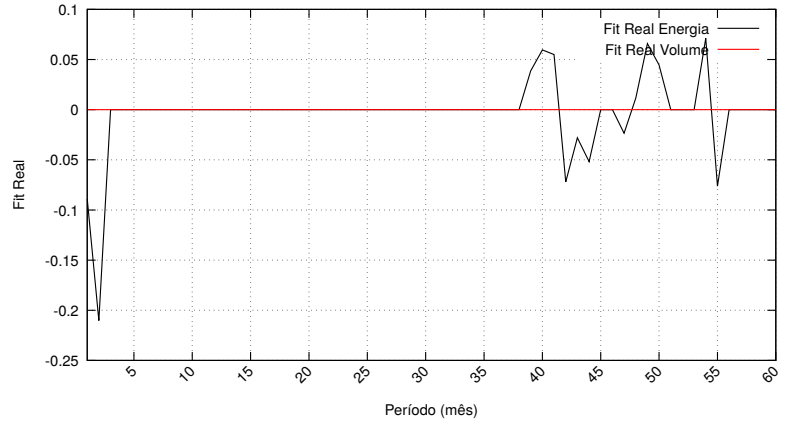
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



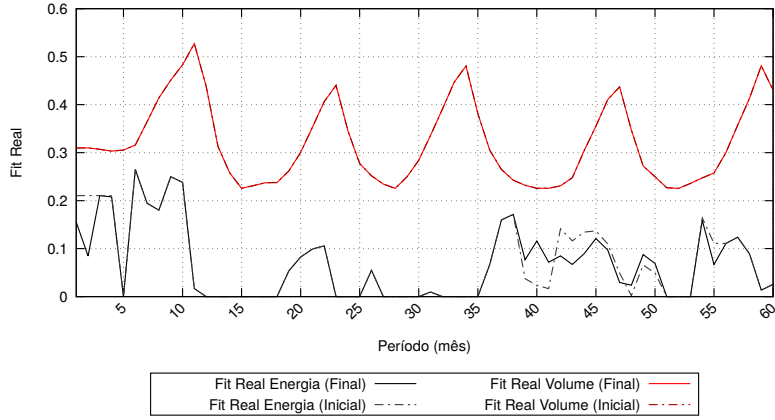
(a) CpMiPi

CpMiPi - Real Fit - Diferença



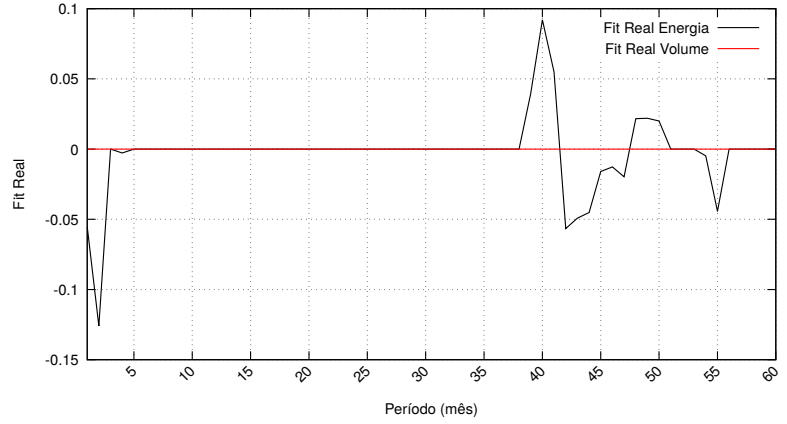
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



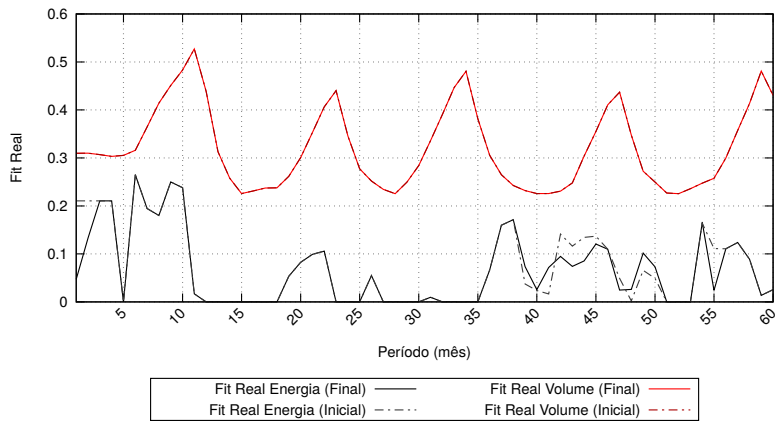
(a) SpPd

SpPd - Real Fit - Diferença



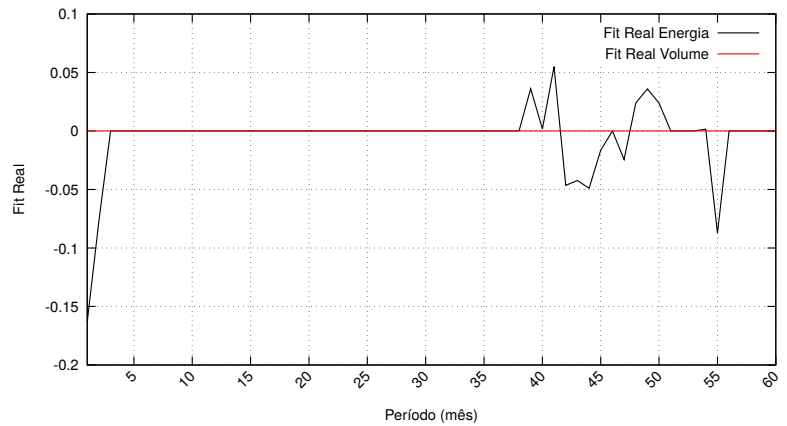
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

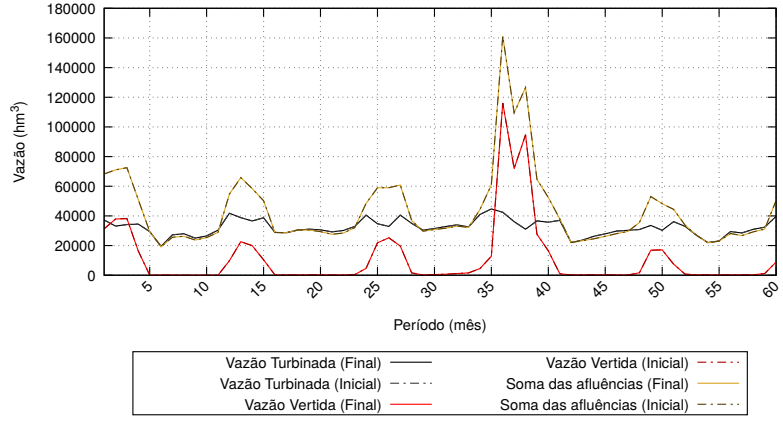
SpPi - Real Fit - Diferença



(b) SpPi

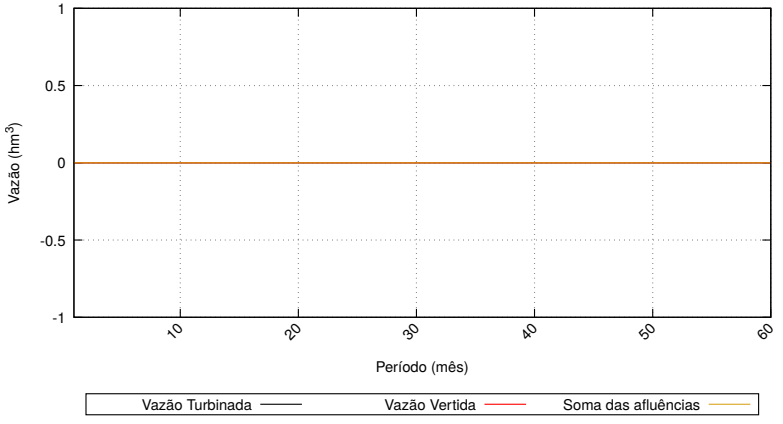
6.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



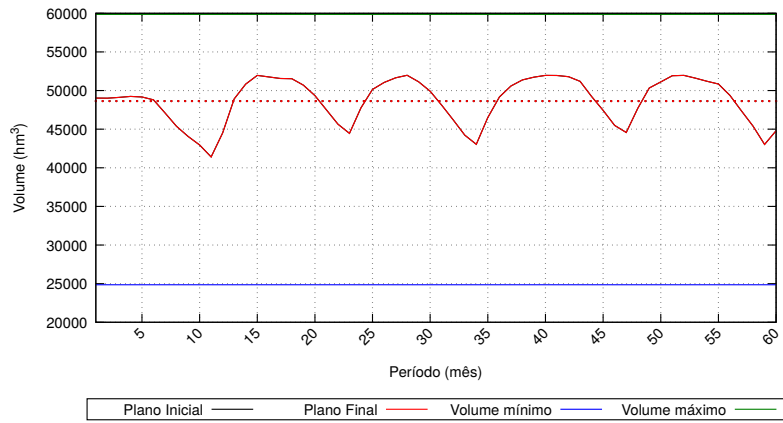
(a) CpMdPd

CpMdPd - Vazão - Diferença



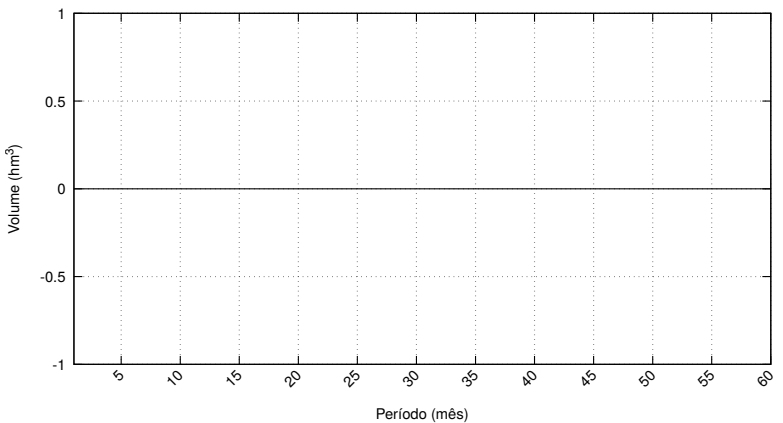
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



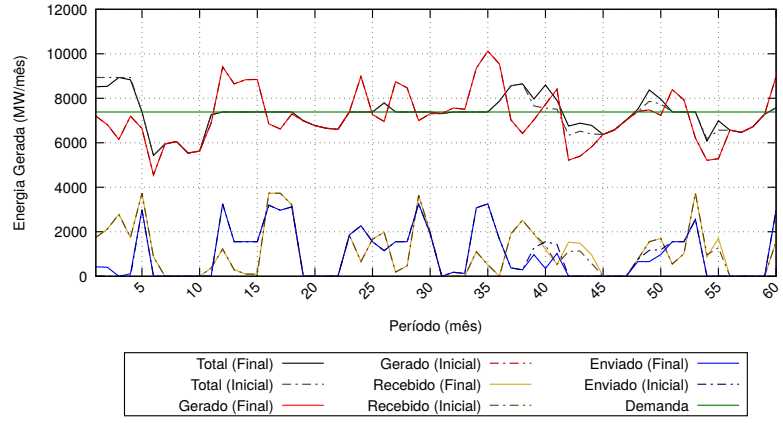
(a) CpMdPd

CpMdPd - Volume - Diferença



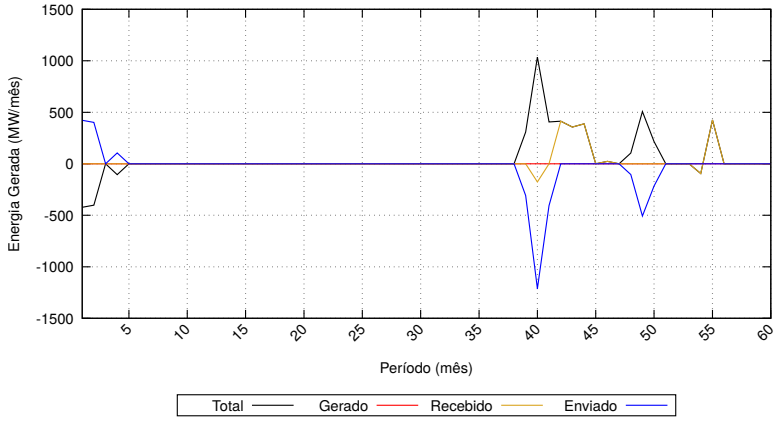
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

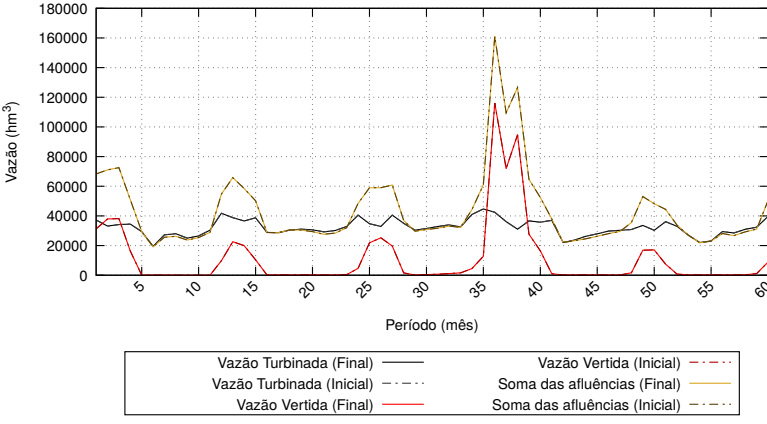
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

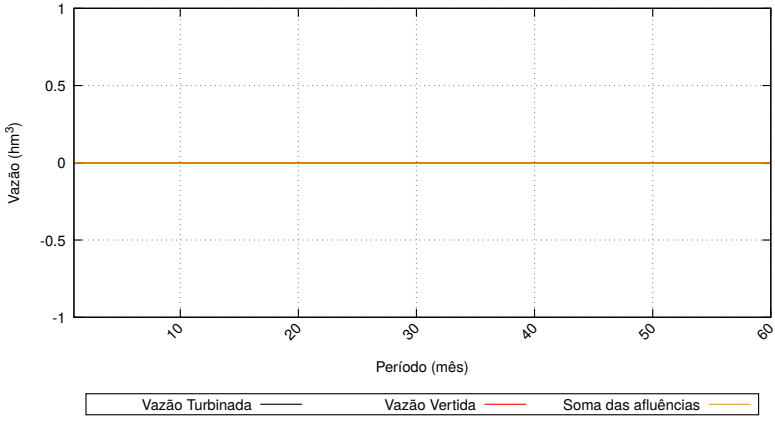
6.5 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



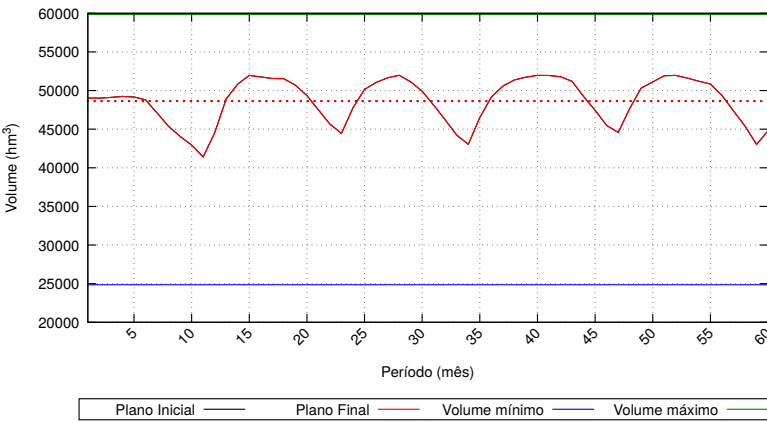
(a) CpMdPi

CpMdPi - Vazão - Diferença



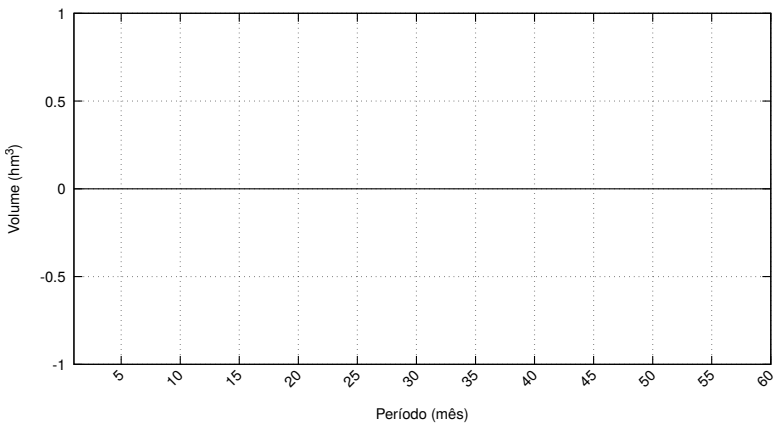
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



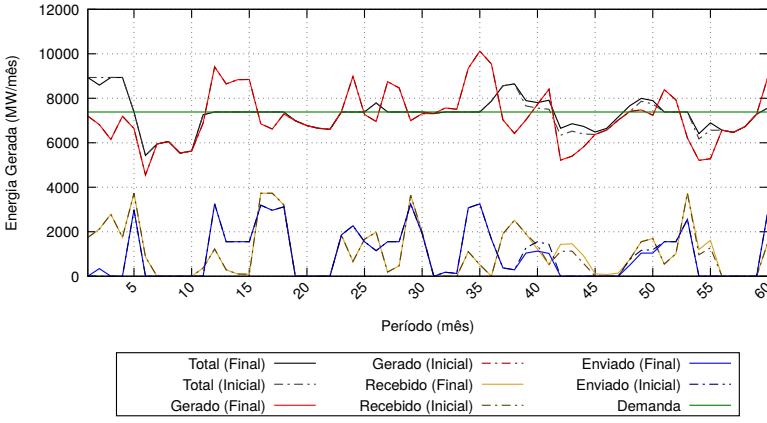
(a) CpMdPi

CpMdPi - Volume - Diferença



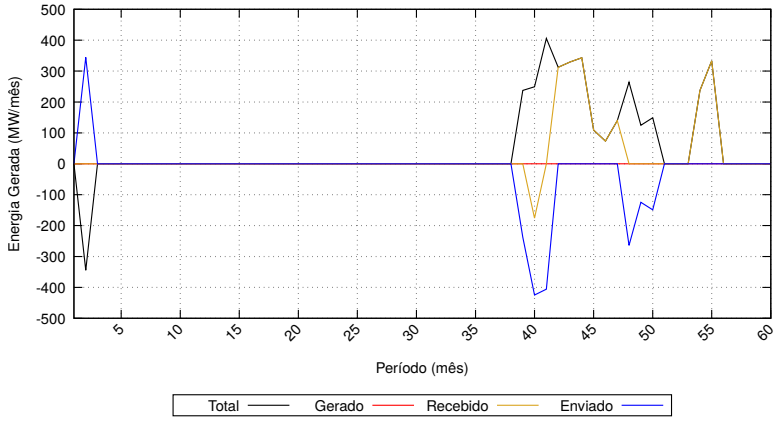
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



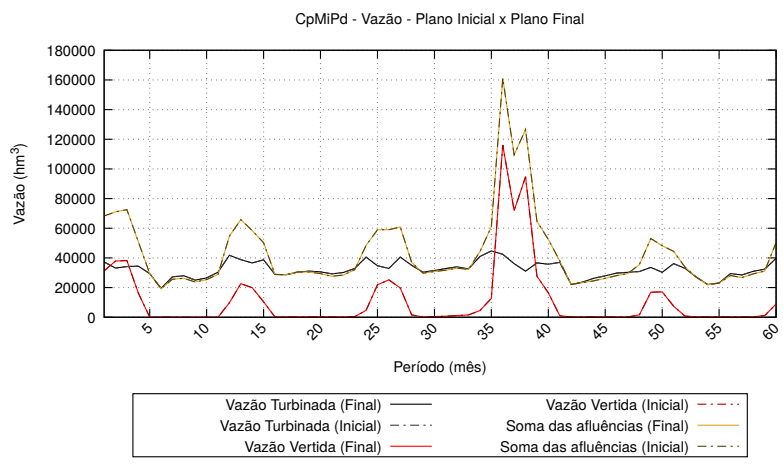
(a) CpMdPi

CpMdPi - Energia Gerada - Diferença

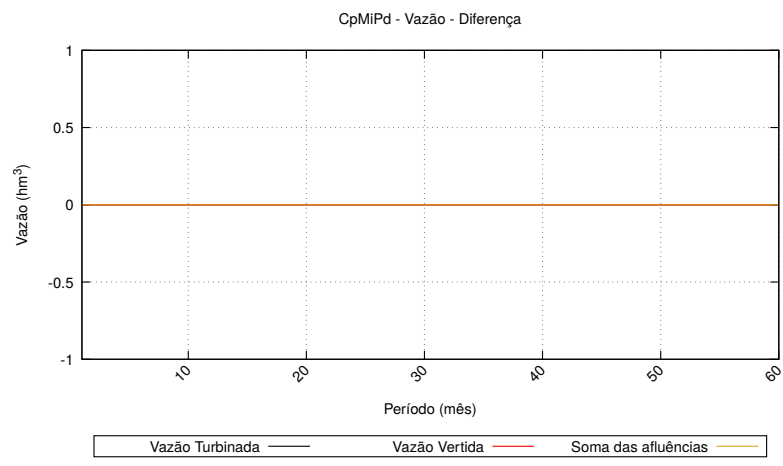


(b) CpMdPi

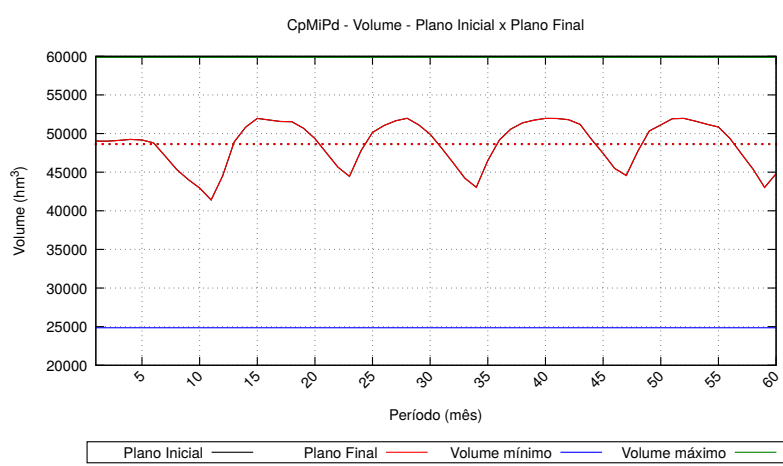
6.6 Resultados - CpMiPd



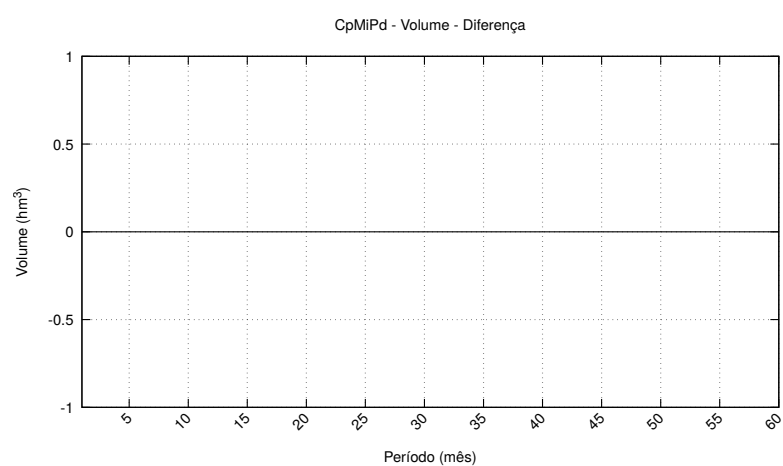
(a) CpMiPd



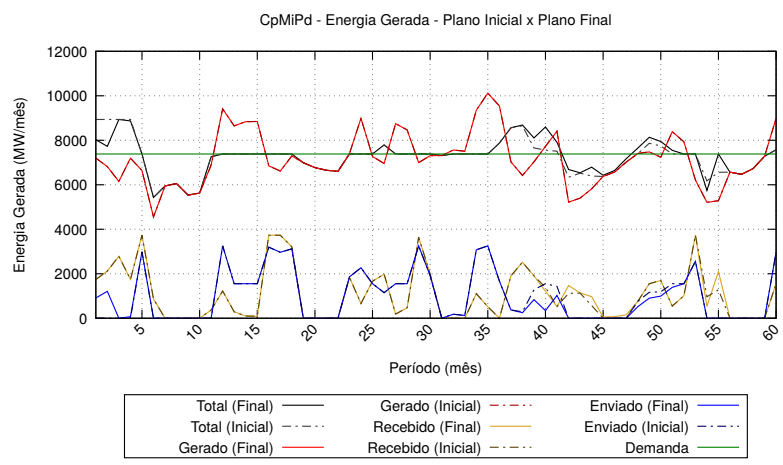
(b) CpMiPd



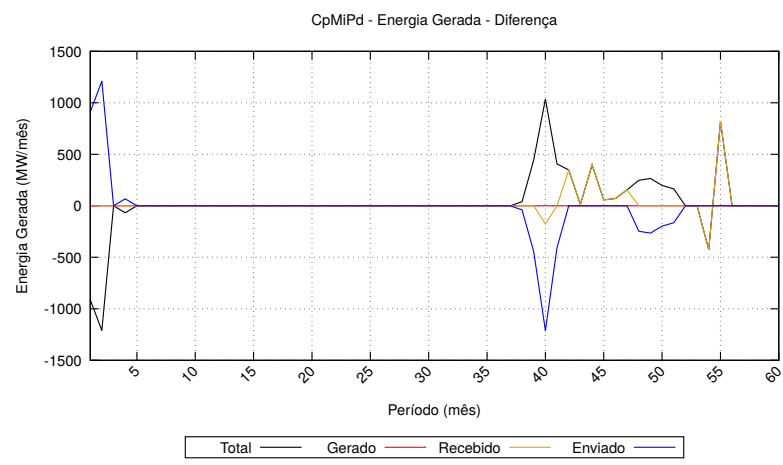
(a) CpMiPd



(b) CpMiPd

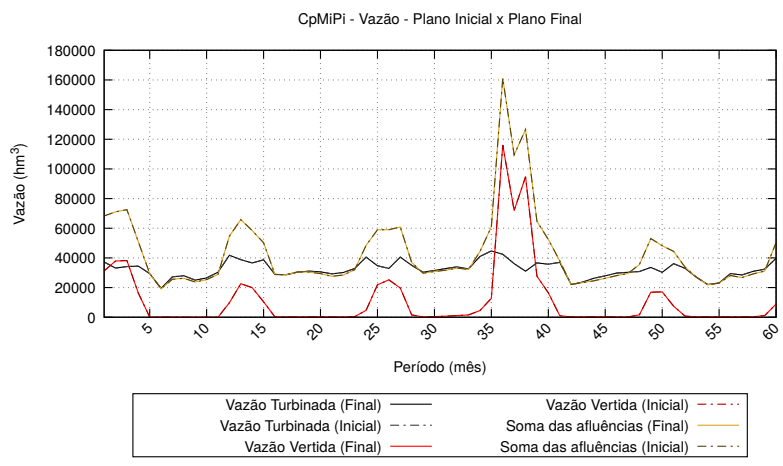


(a) CpMiPd

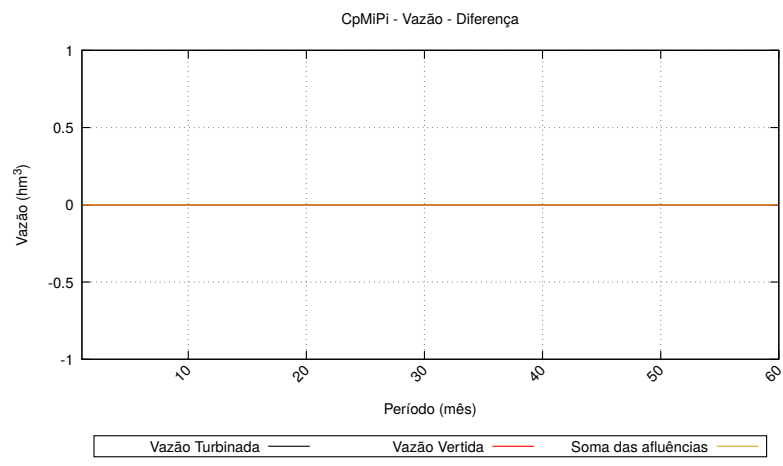


(b) CpMiPd

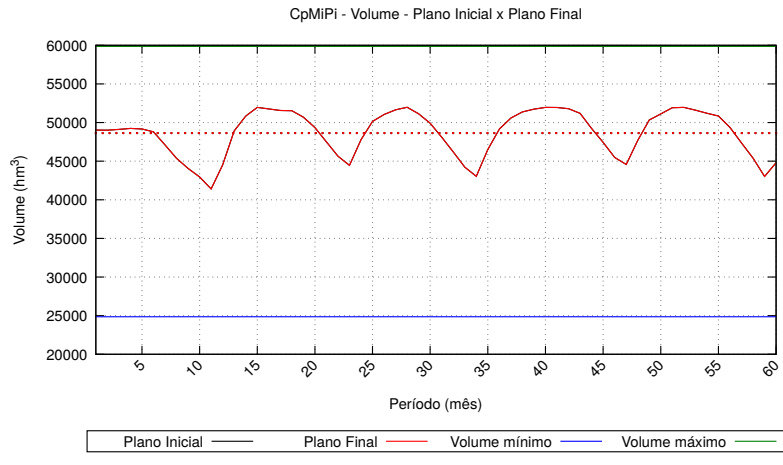
6.7 Resultados - CpMiPi



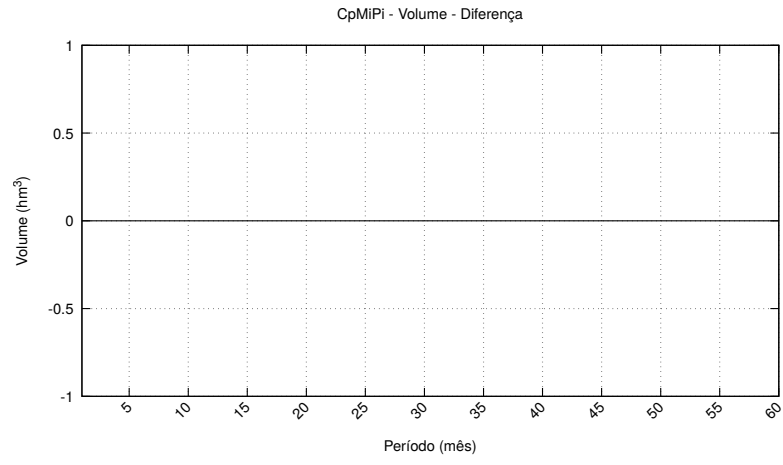
(a) CpMiPi



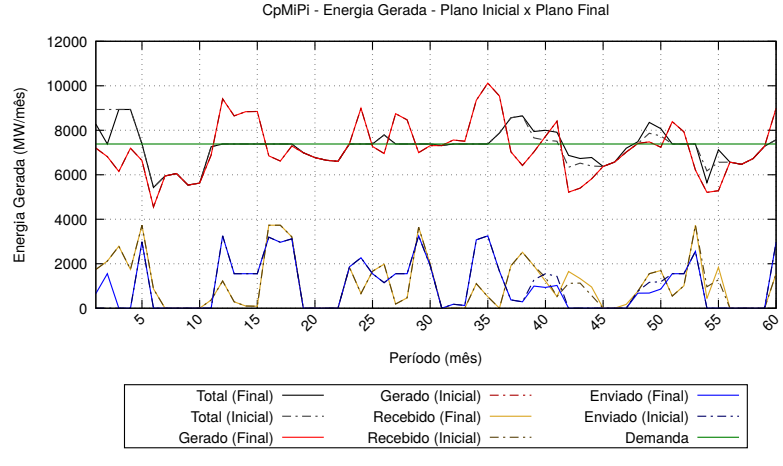
(b) CpMiPi



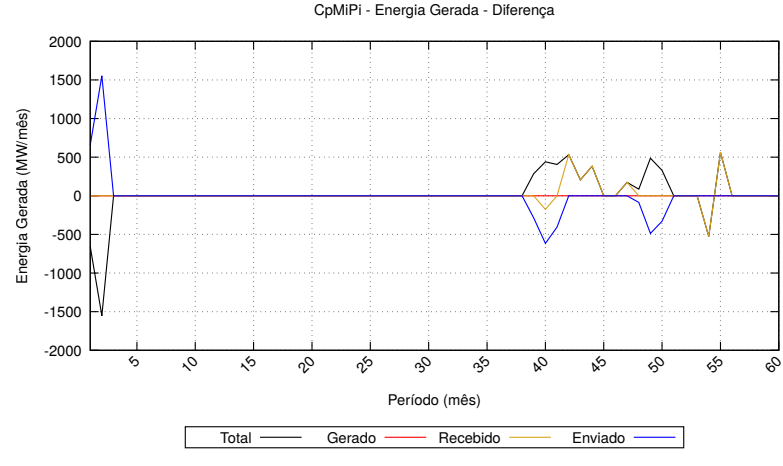
(a) CpMiPi



(b) CpMiPi

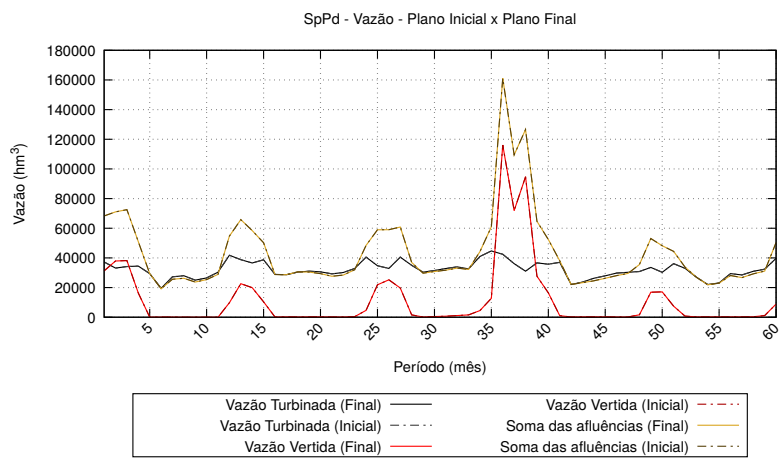


(a) CpMiPi

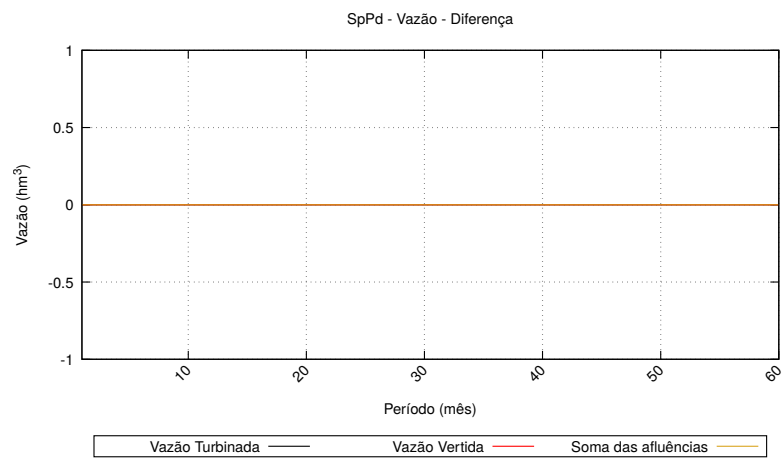


(b) CpMiPi

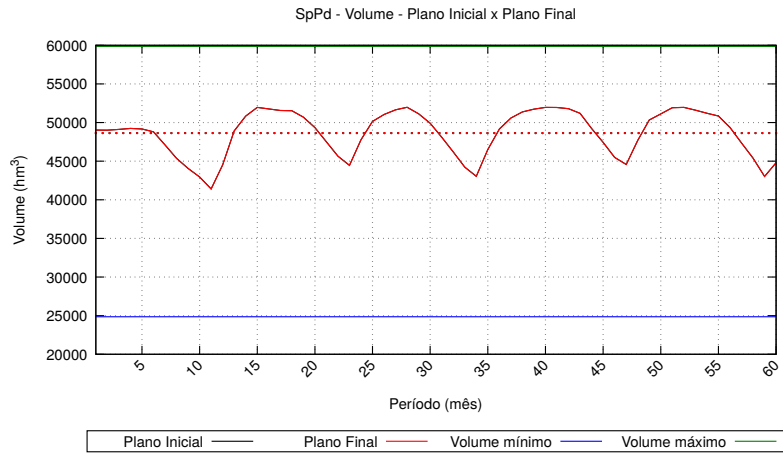
6.8 Resultados - SpPd



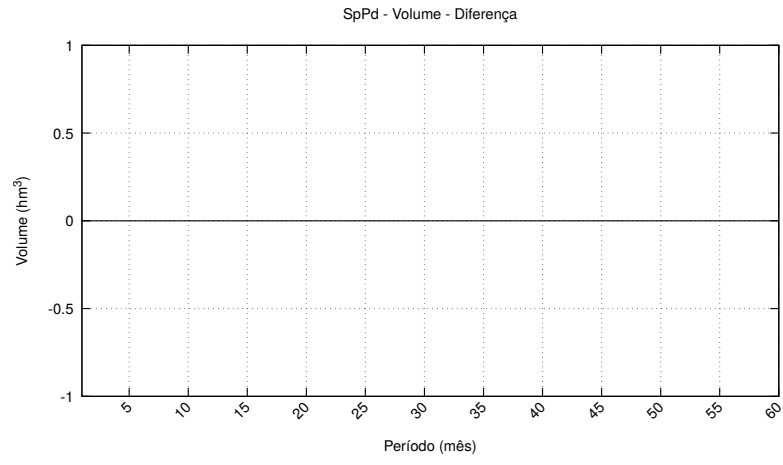
(a) SpPd



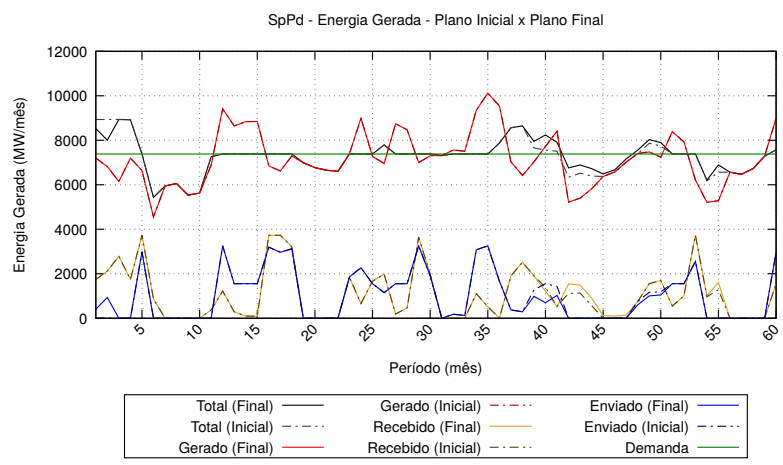
(b) SpPd



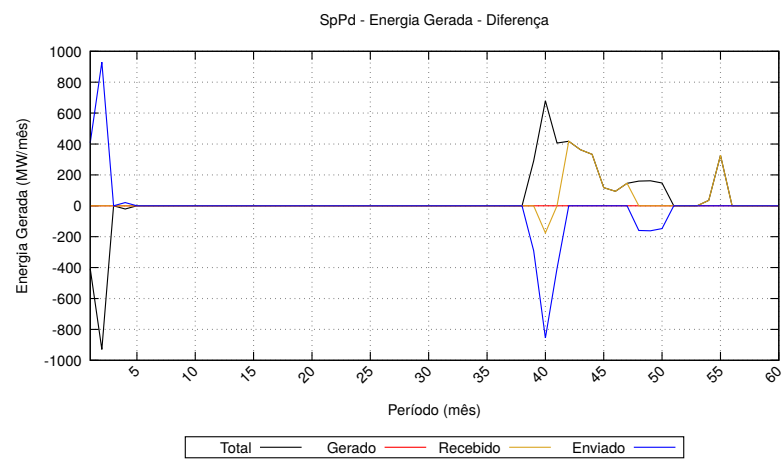
(a) SpPd



(b) SpPd



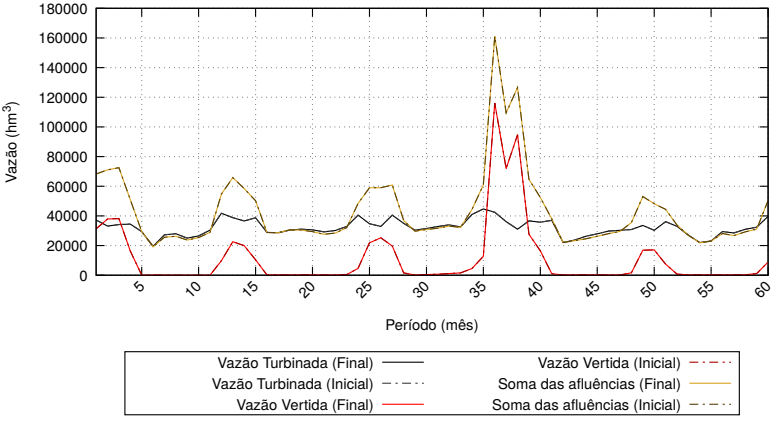
(a) SpPd



(b) SpPd

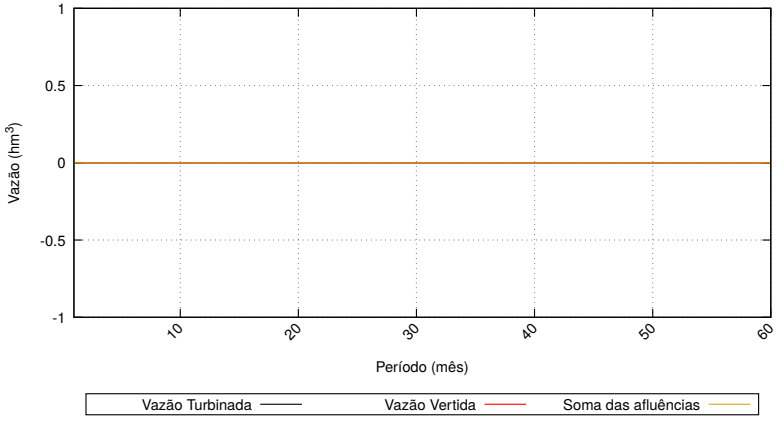
6.9 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



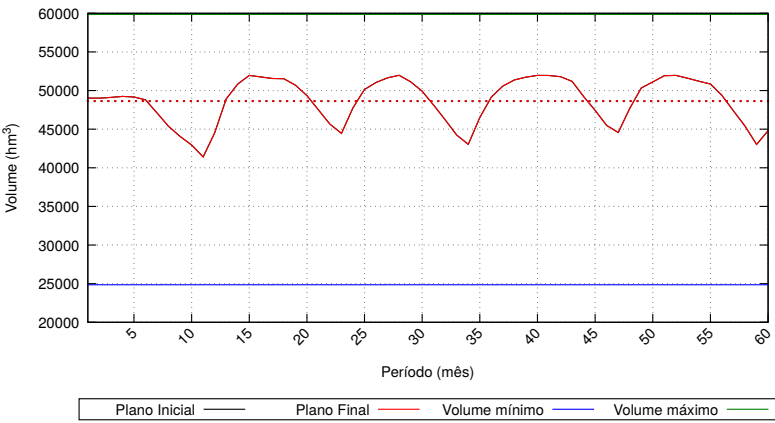
(a) SpPi

SpPi - Vazão - Diferença



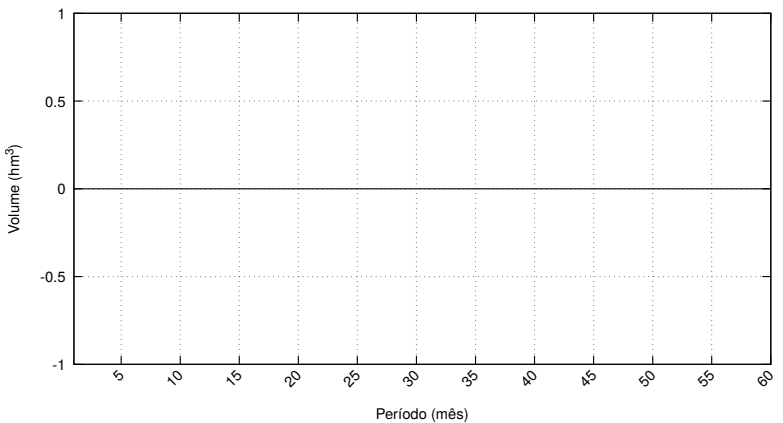
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



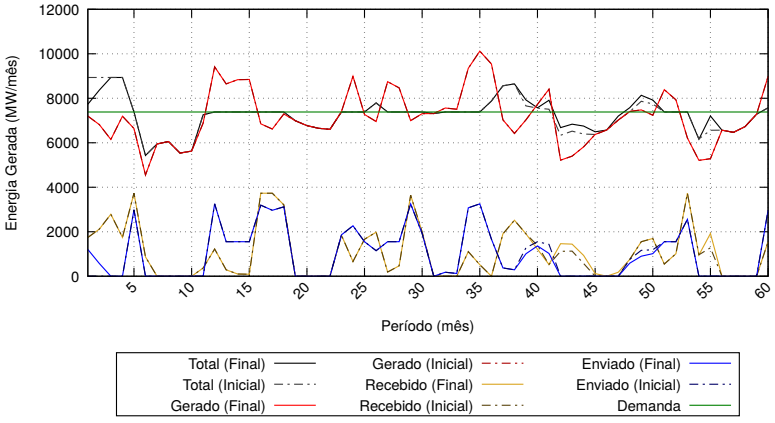
(a) SpPi

SpPi - Volume - Diferença



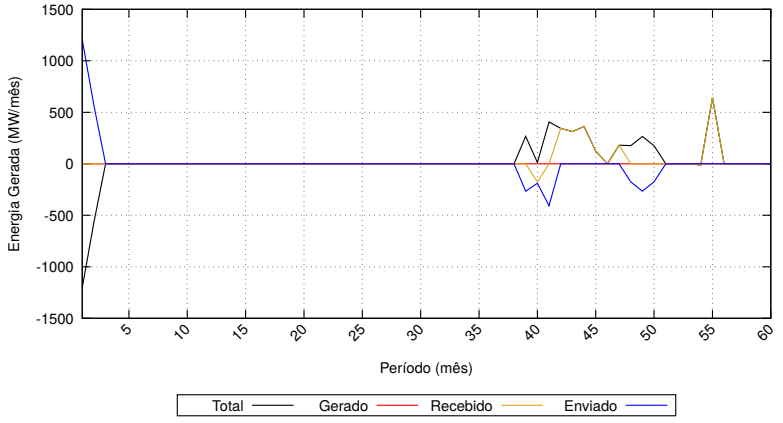
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

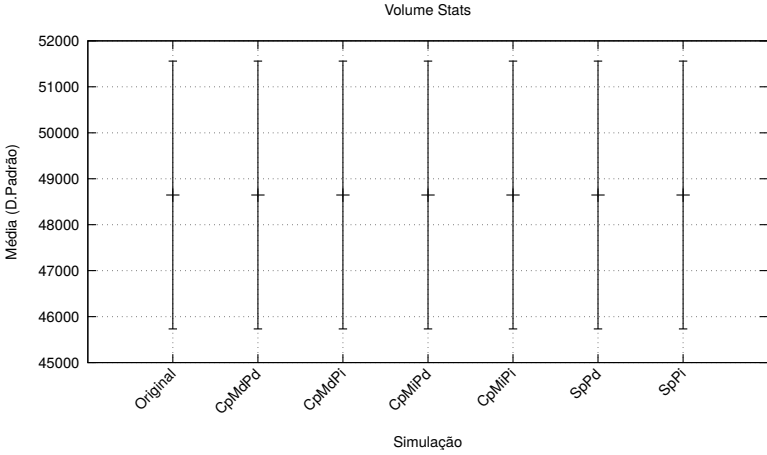


(b) SpPi

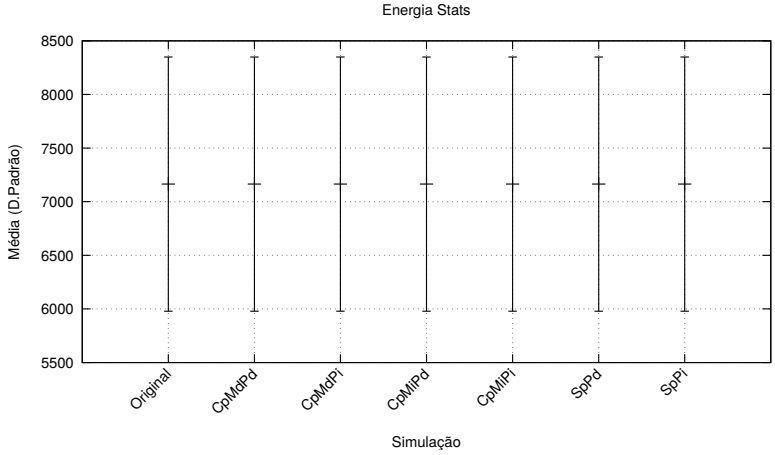
6.10 GPlan Stats

Tabela 11: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	48645.20210	2913.76634	7164.20546	1185.34747
CpMdPd	48645.20210	2913.76634	7164.20546	1185.34747
CpMdPi	48645.20210	2913.76634	7164.20546	1185.34747
CpMiPd	48645.20210	2913.76634	7164.20546	1185.34747
CpMiPi	48645.20210	2913.76634	7164.20546	1185.34747
SpPd	48645.20210	2913.76634	7164.20546	1185.34747
SpPi	48645.20210	2913.76634	7164.20546	1185.34747



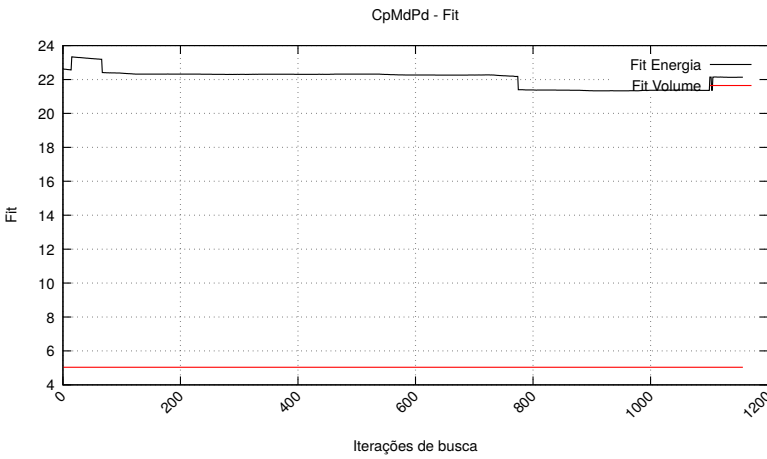
(a) Volume



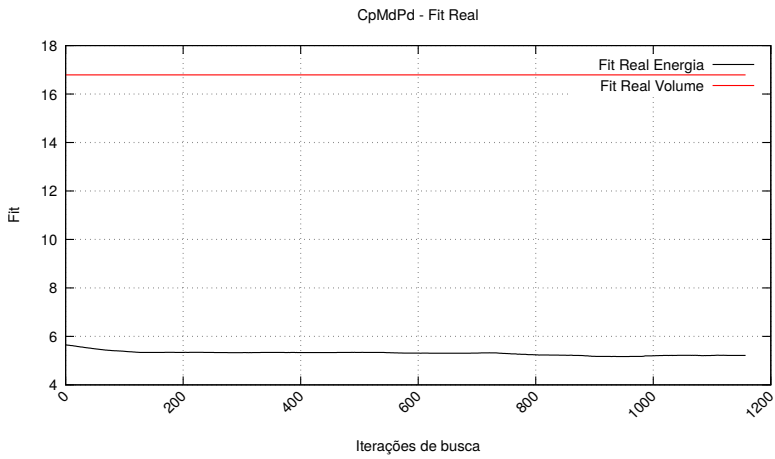
(b) Energia

7 SubSistema 4

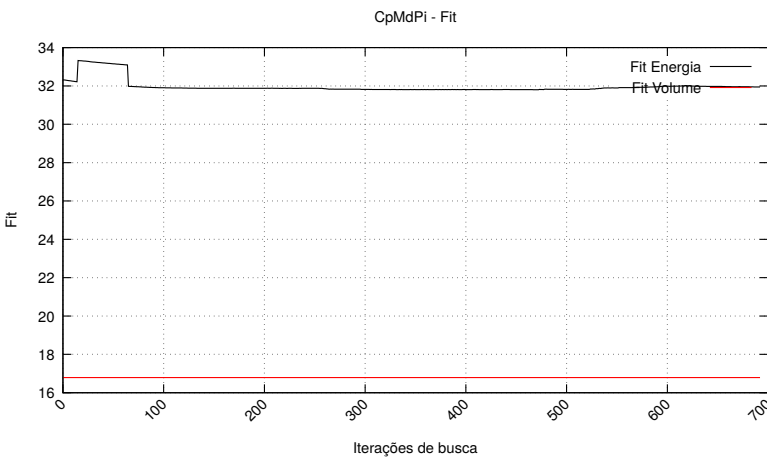
7.1 Fit/RealFit



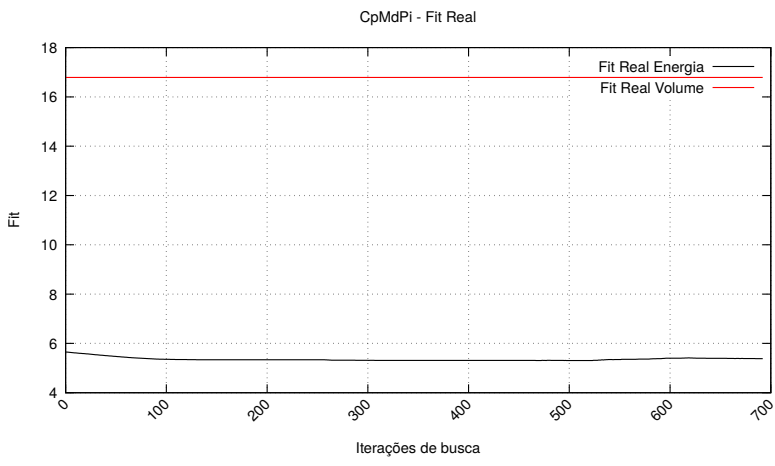
(a) CpMdPd



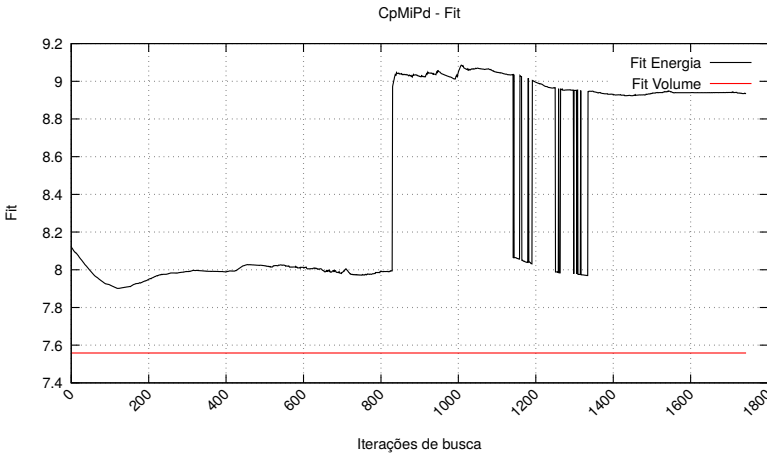
(b) CpMdPd



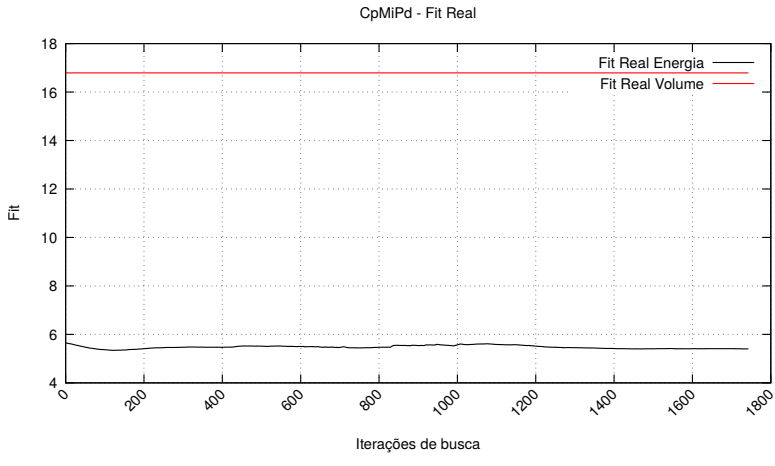
(a) CpMdPi



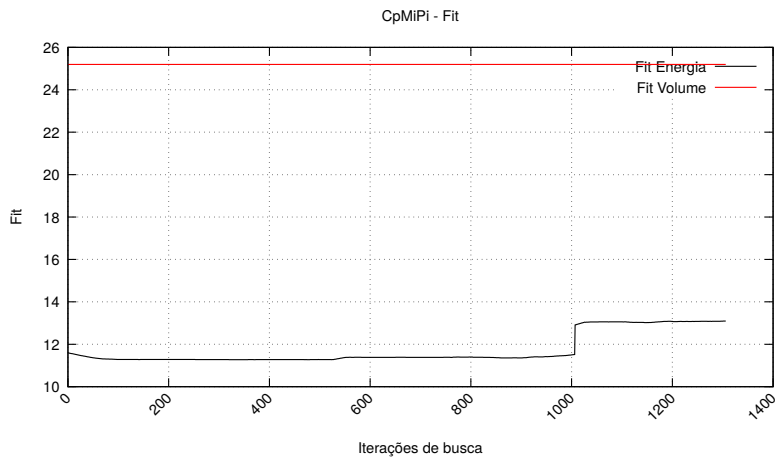
(b) CpMdPi



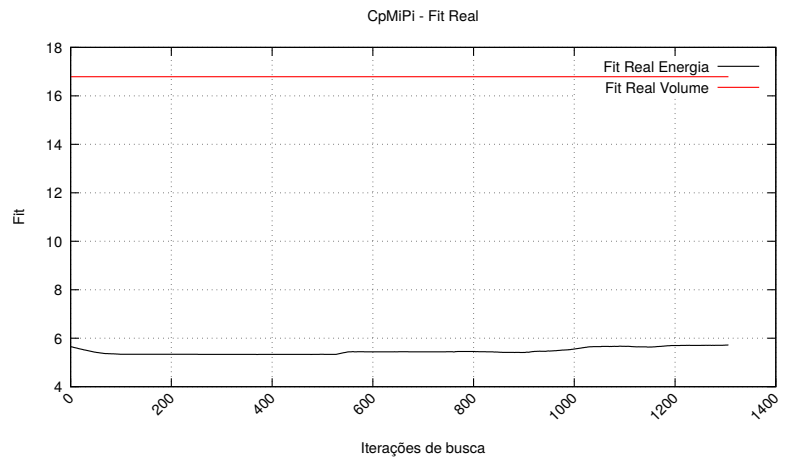
(a) CpMiPd



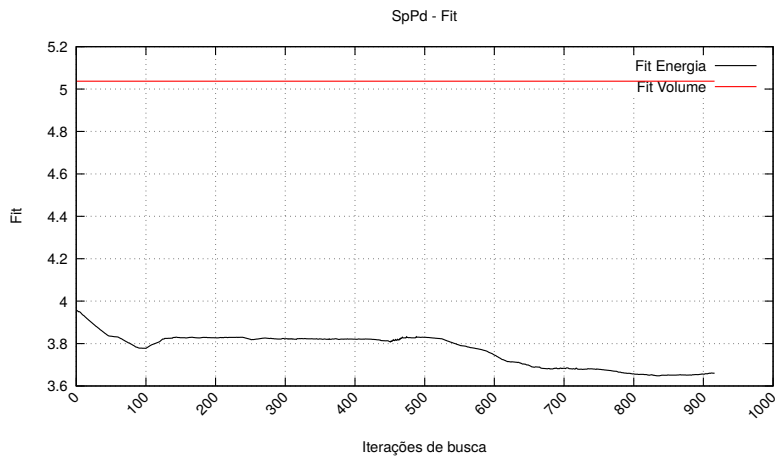
(b) CpMiPd



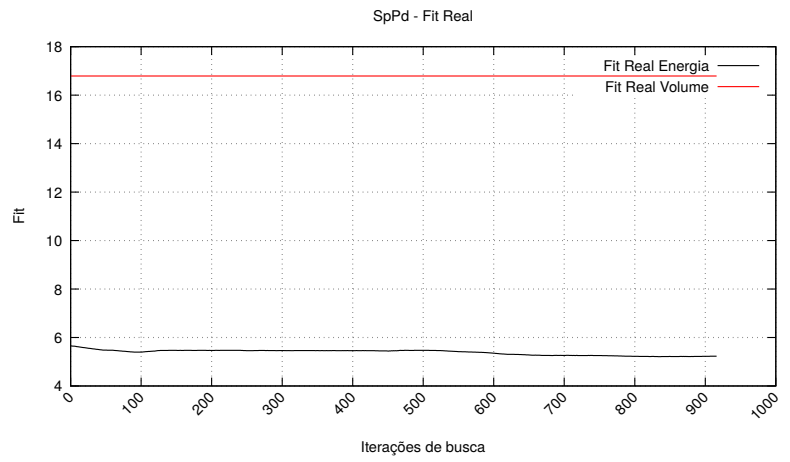
(a) CpMiPi



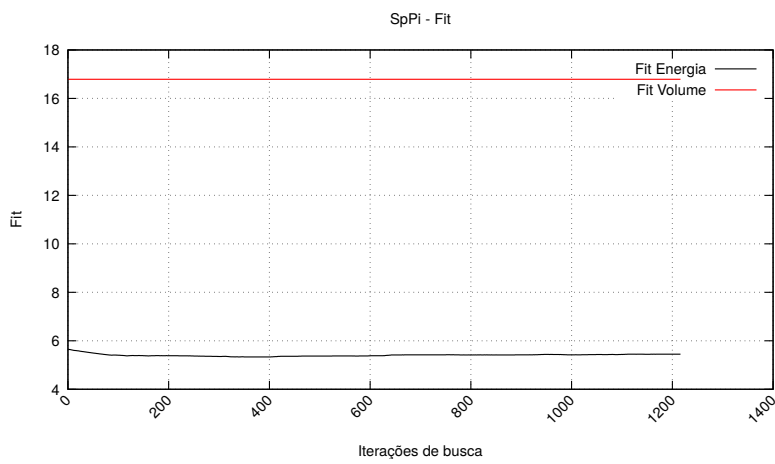
(b) CpMiPi



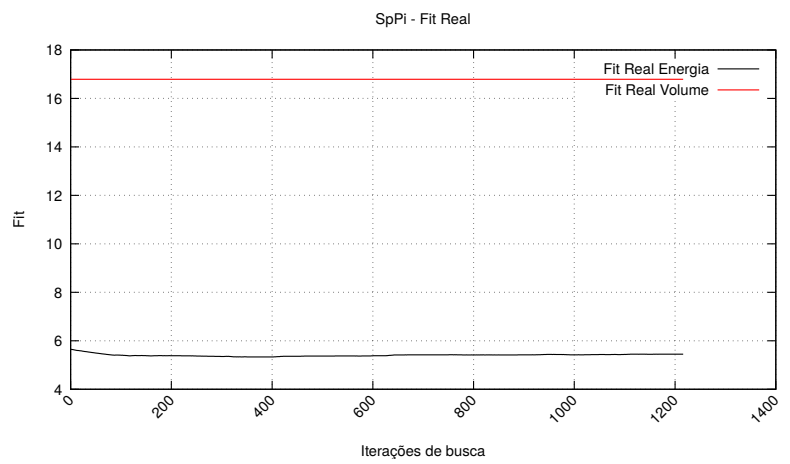
(a) SpPd



(b) SpPd



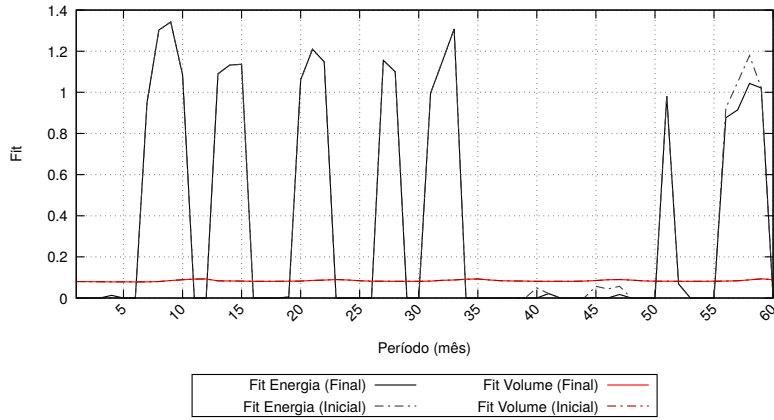
(a) SpPi



(b) SpPi

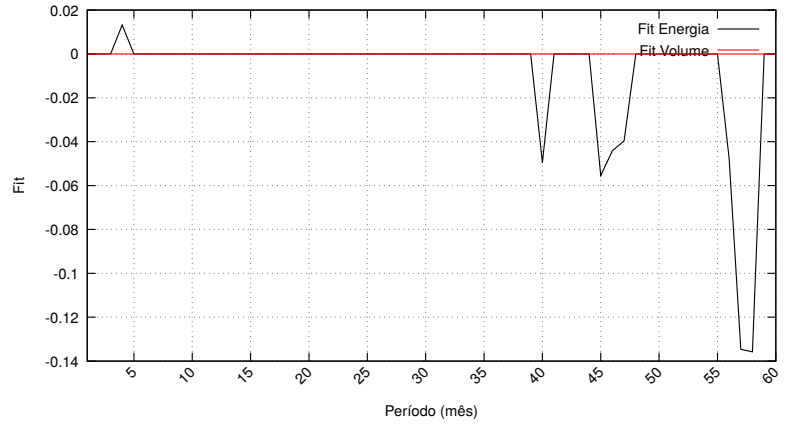
7.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



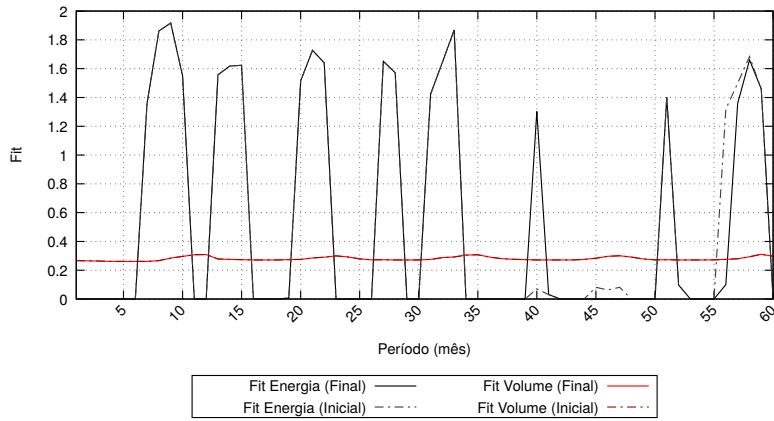
(a) CpMdPd

CpMdPd - Fit - Diferença



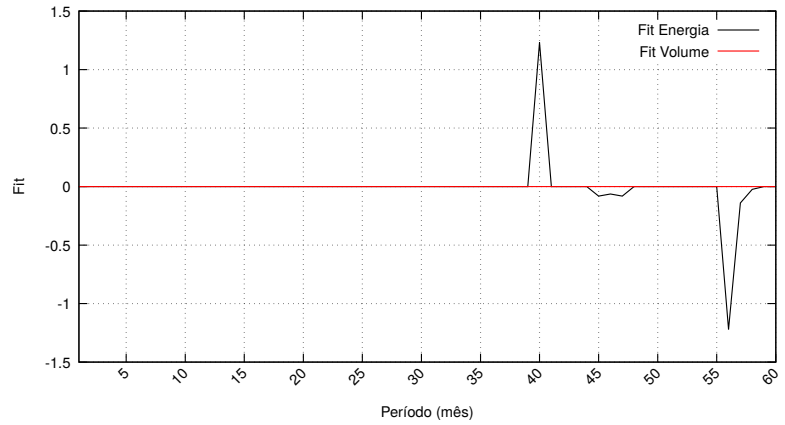
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



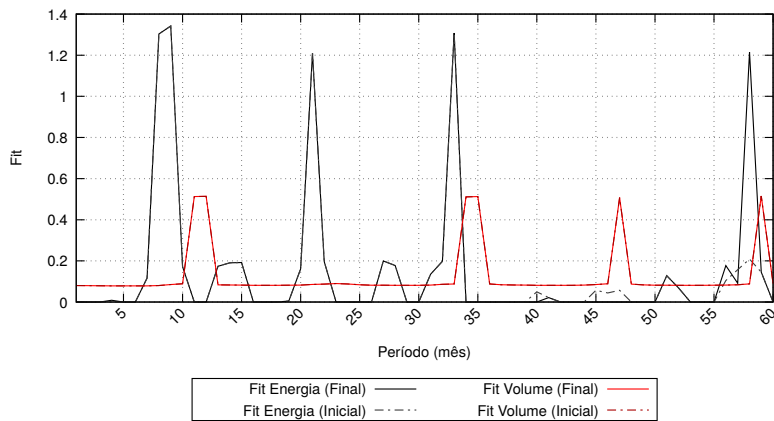
(a) CpMdPi

CpMdPi - Fit - Diferença



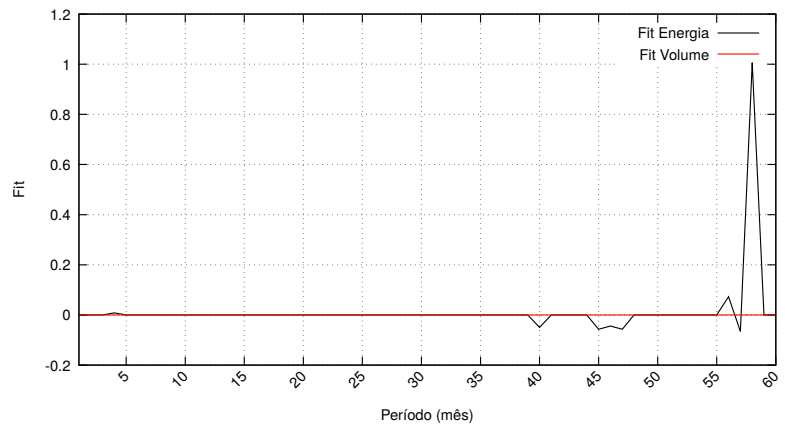
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



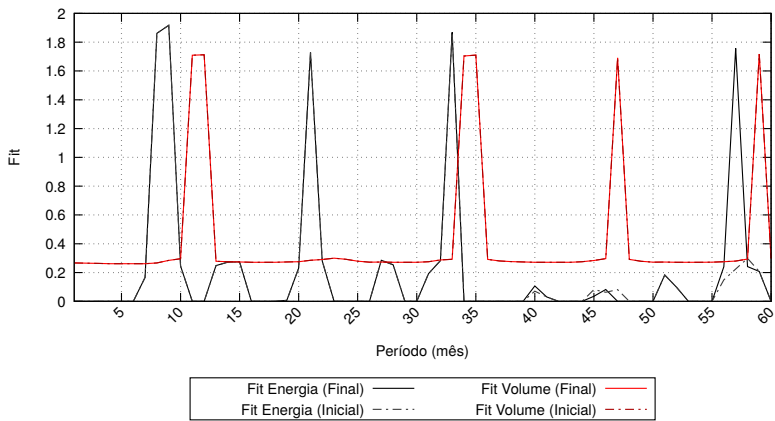
(a) CpMiPd

CpMiPd - Fit - Diferença



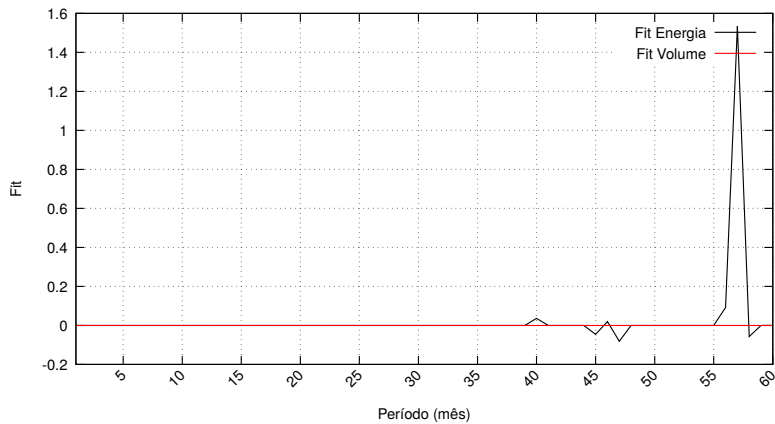
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



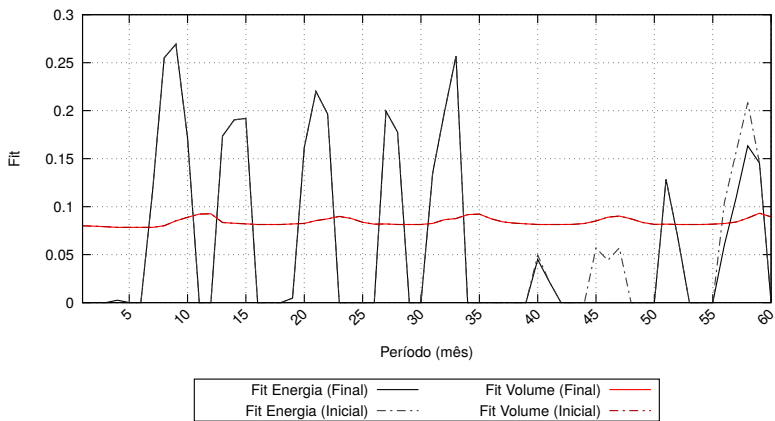
(a) CpMiPi

CpMiPi - Fit - Diferença



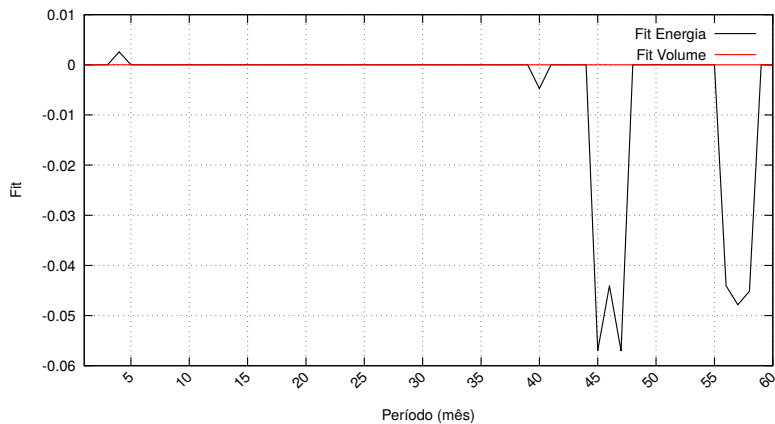
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



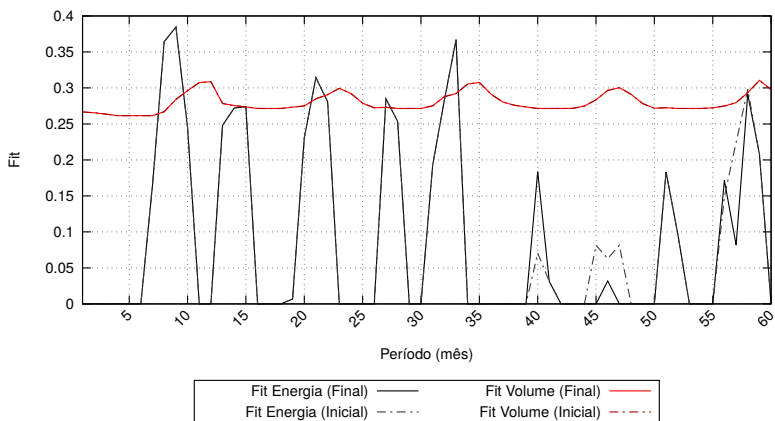
(a) SpPd

SpPd - Fit - Diferença



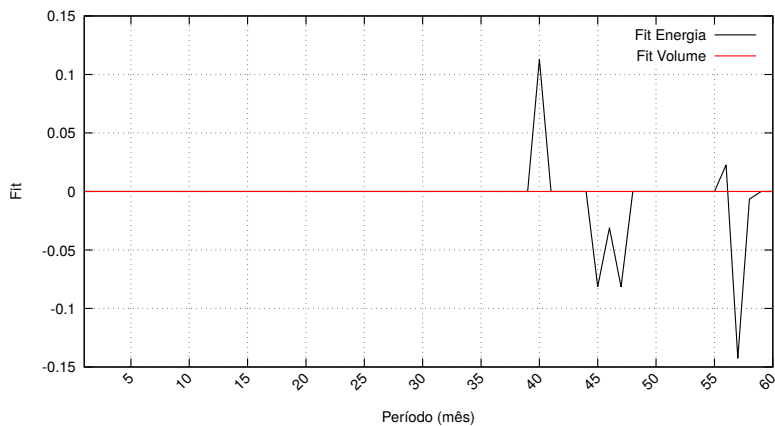
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



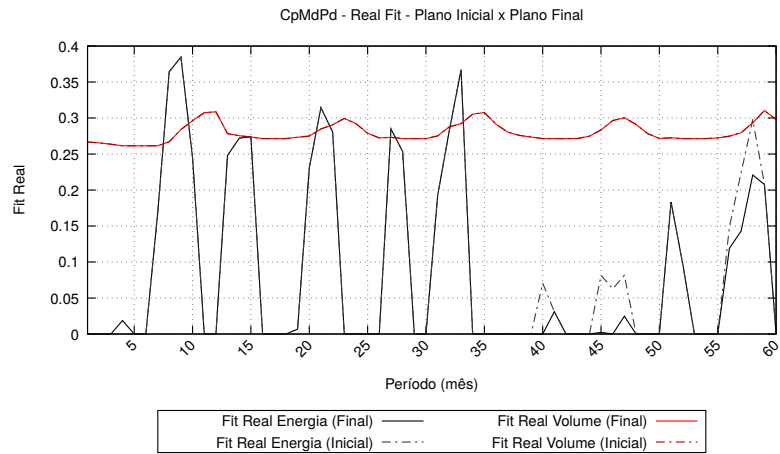
(a) SpPi

SpPi - Fit - Diferença

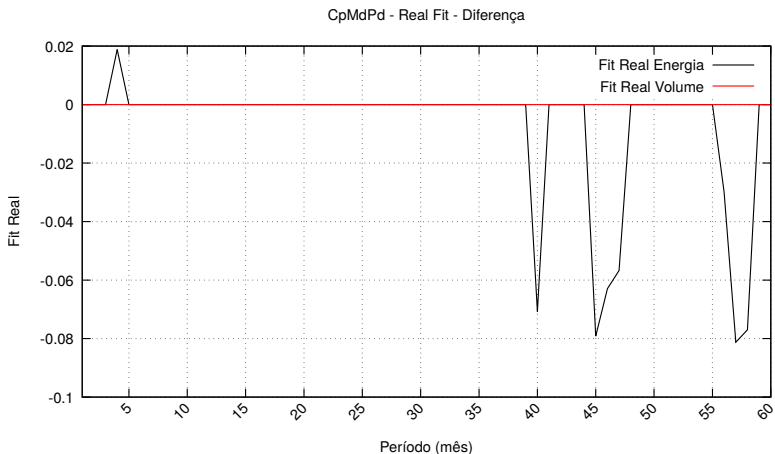


(b) SpPi

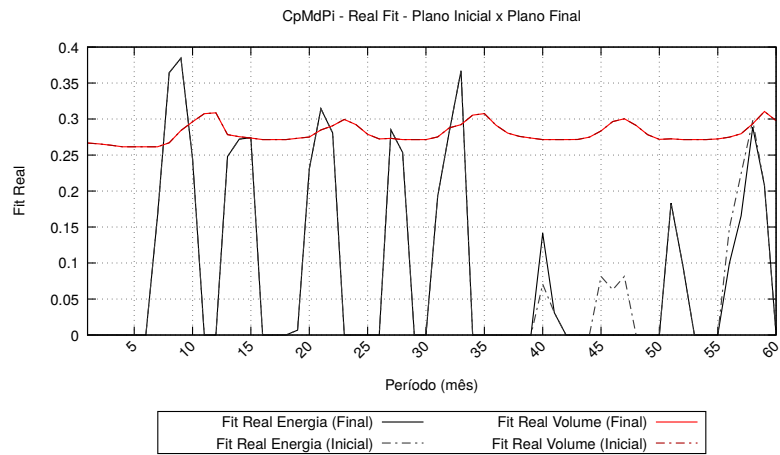
7.3 Energia/Volume RealFit



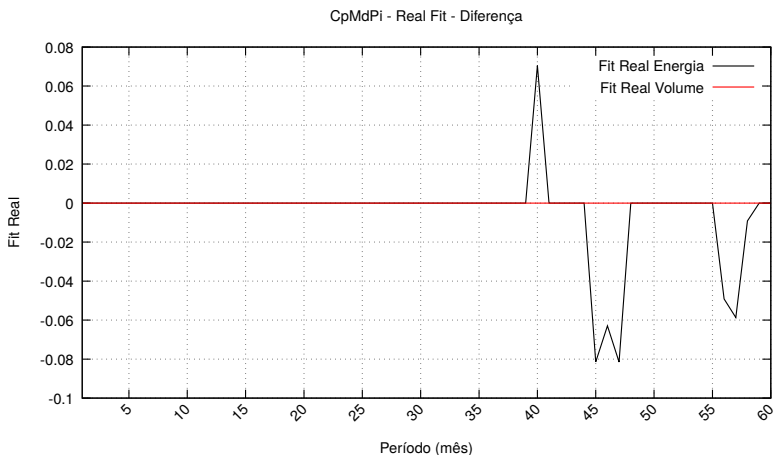
(a) CpMdPd



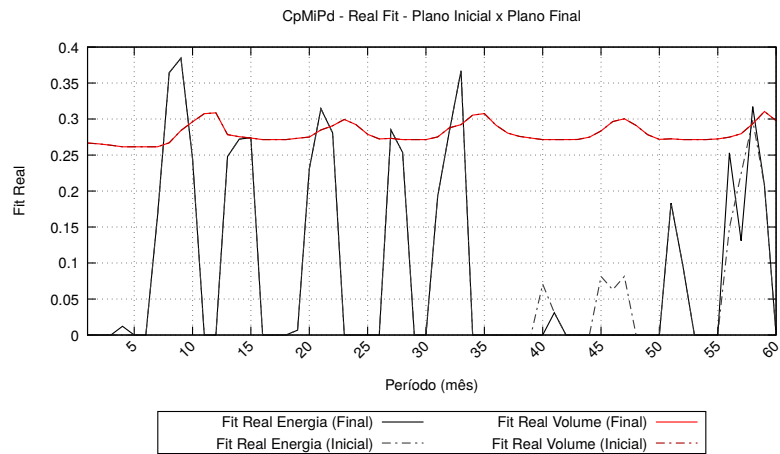
(b) CpMdPd



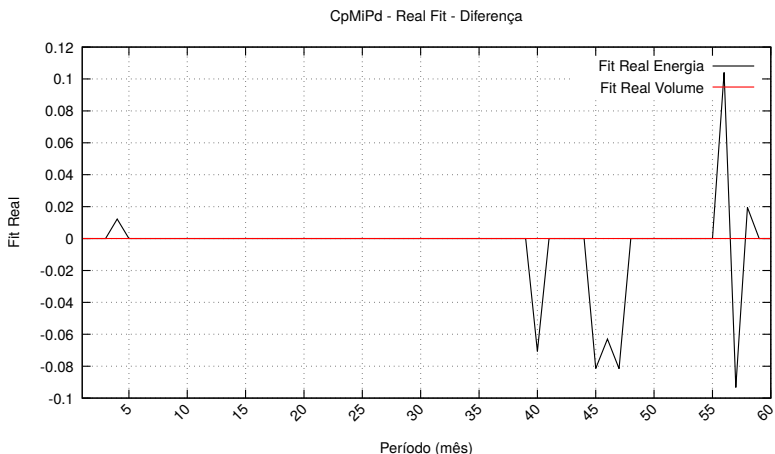
(a) CpMdPi



(b) CpMdPi

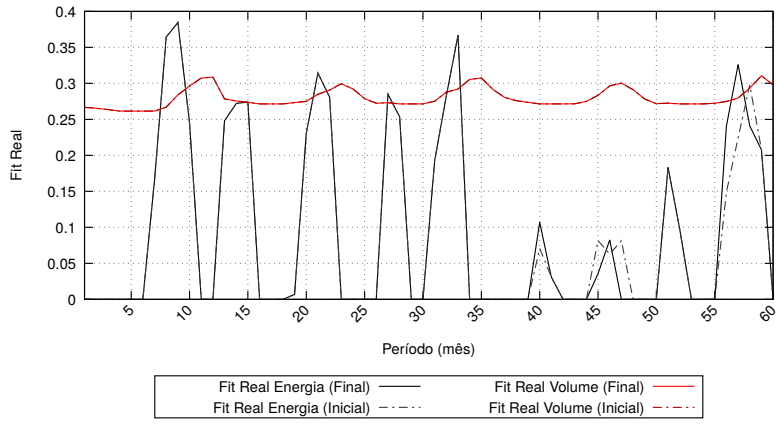


(a) CpMiPd



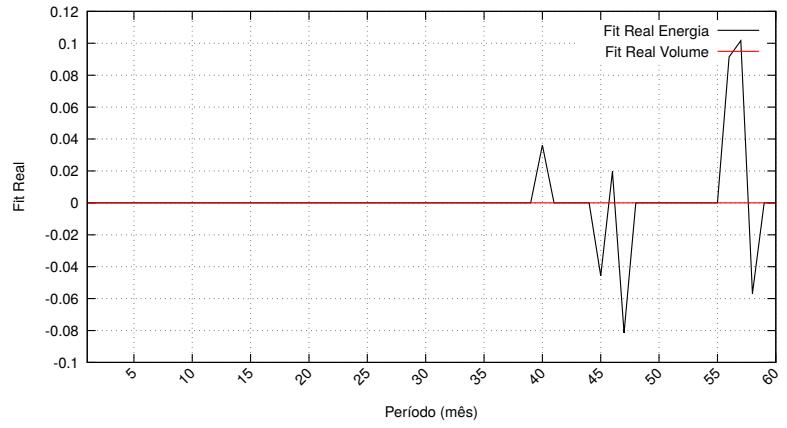
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



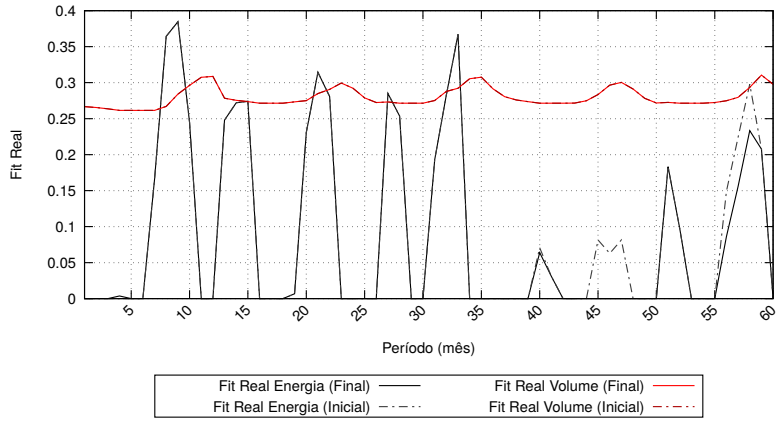
(a) CpMiPi

CpMiPi - Real Fit - Diferença



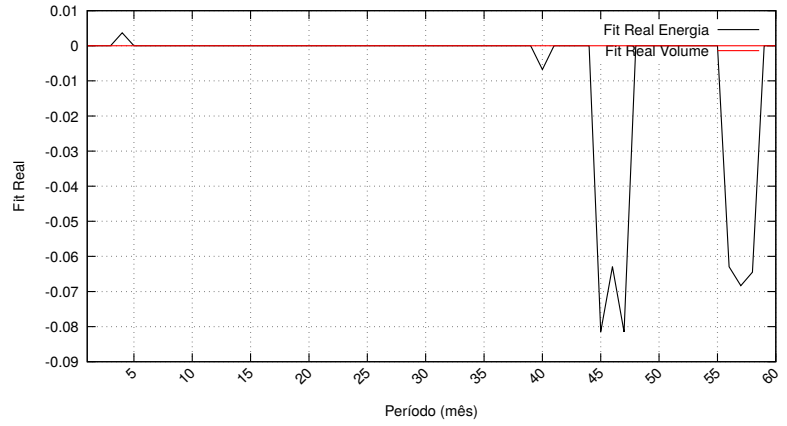
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



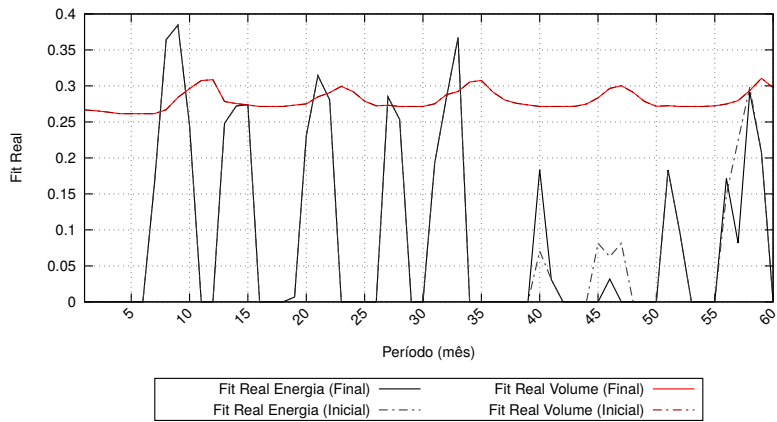
(a) SpPd

SpPd - Real Fit - Diferença



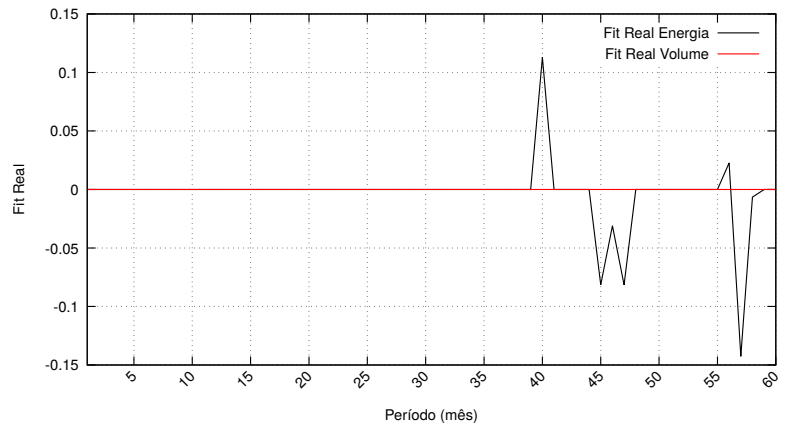
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

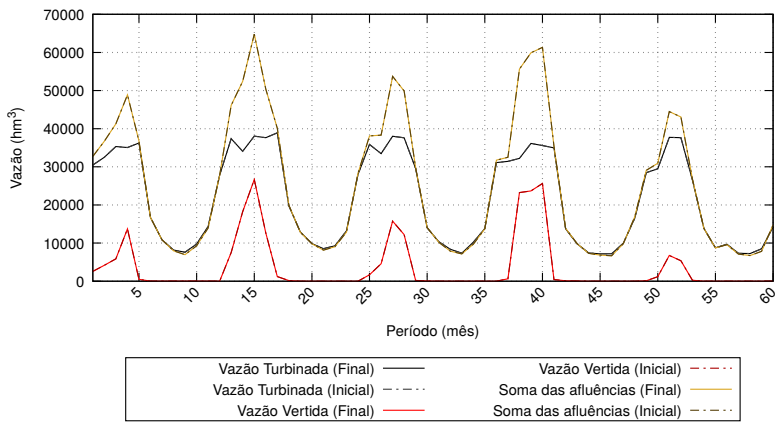
SpPi - Real Fit - Diferença



(b) SpPi

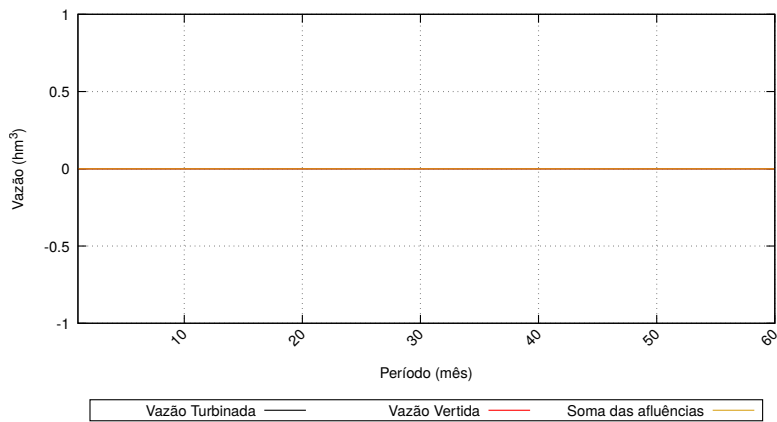
7.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



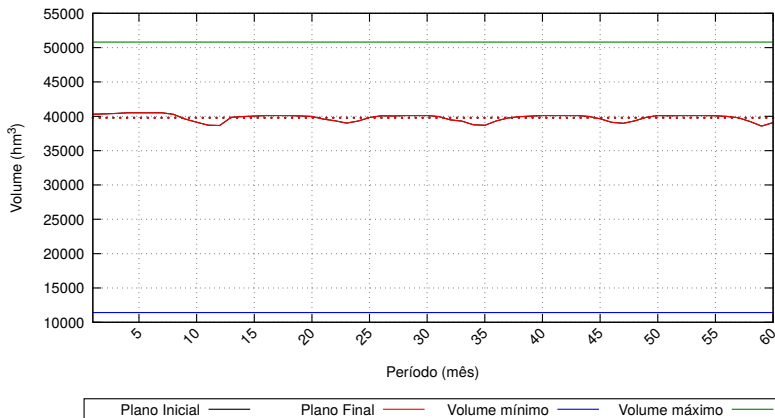
(a) CpMdPd

CpMdPd - Vazão - Diferença



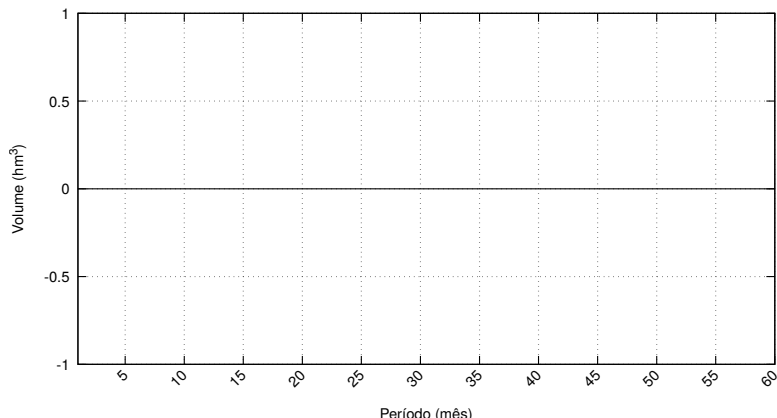
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



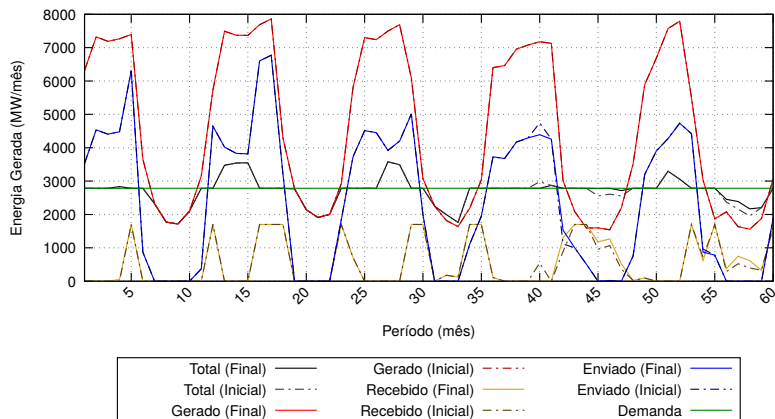
(a) CpMdPd

CpMdPd - Volume - Diferença



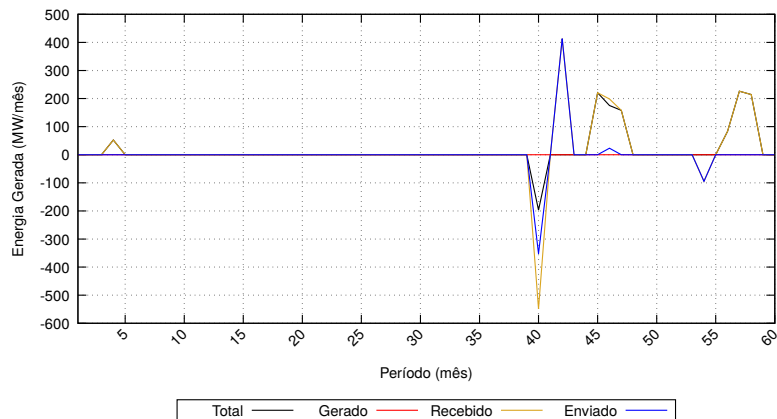
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



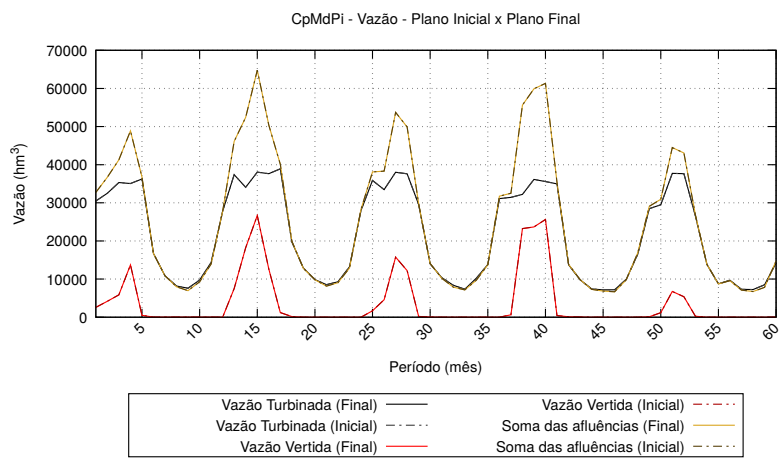
(a) CpMdPd

CpMdPd - Energia Gerada - Diferença

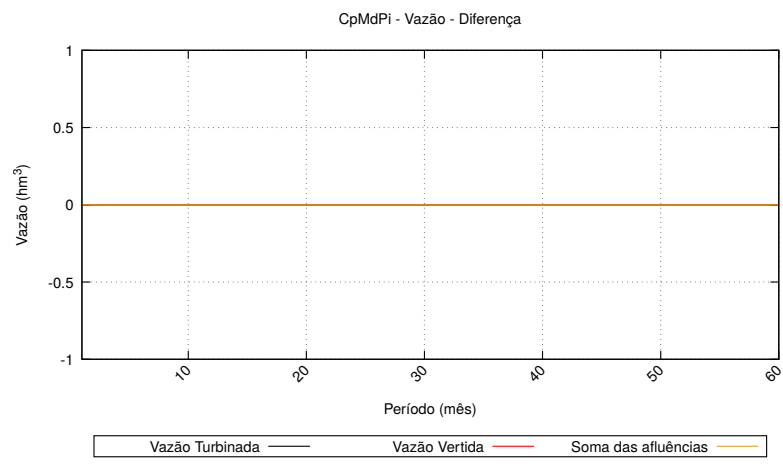


(b) CpMdPd

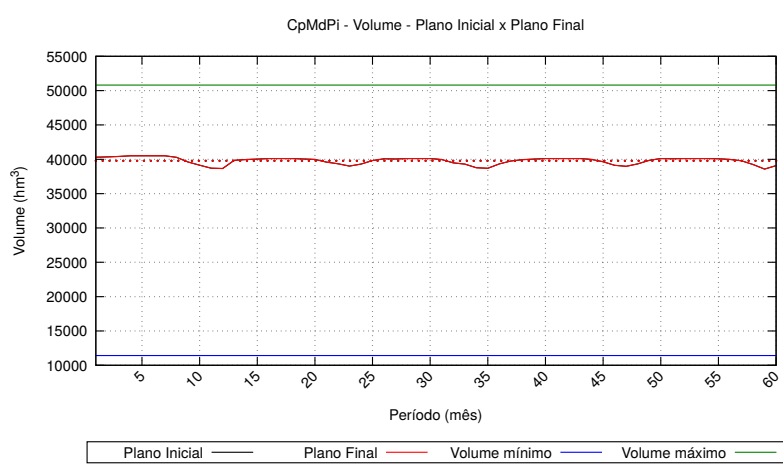
7.5 Resultados - CpMdPi



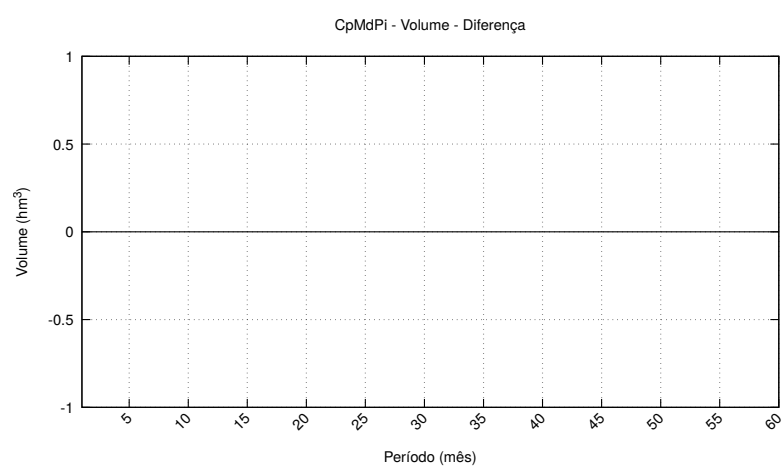
(a) CpMdPi



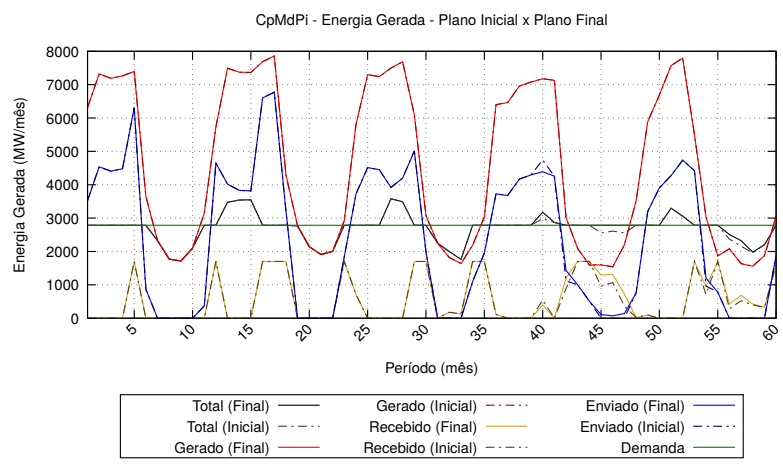
(b) CpMdPi



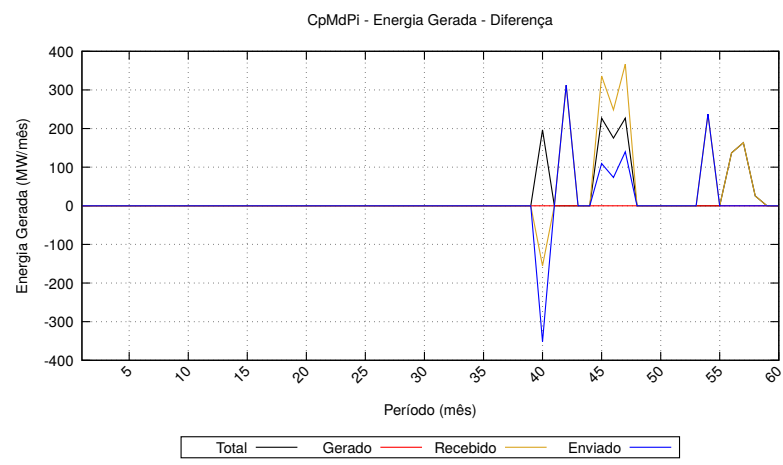
(a) CpMdPi



(b) CpMdPi

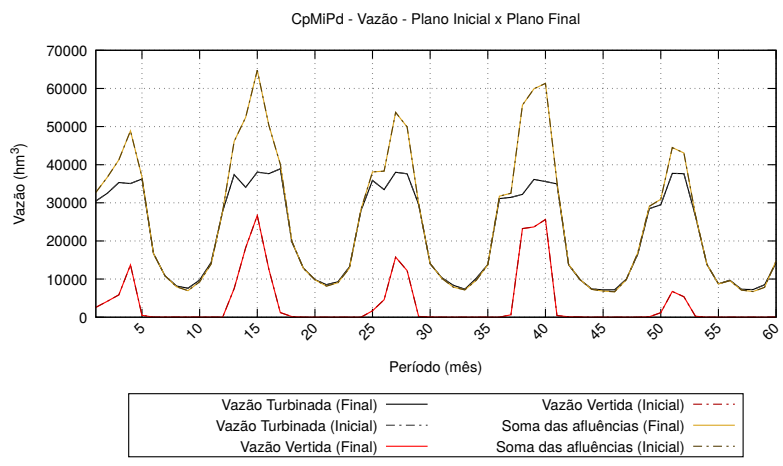


(a) CpMdPi

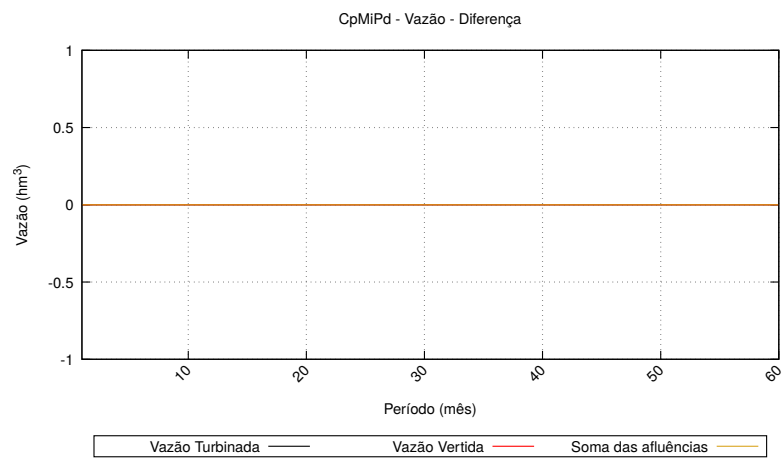


(b) CpMdPi

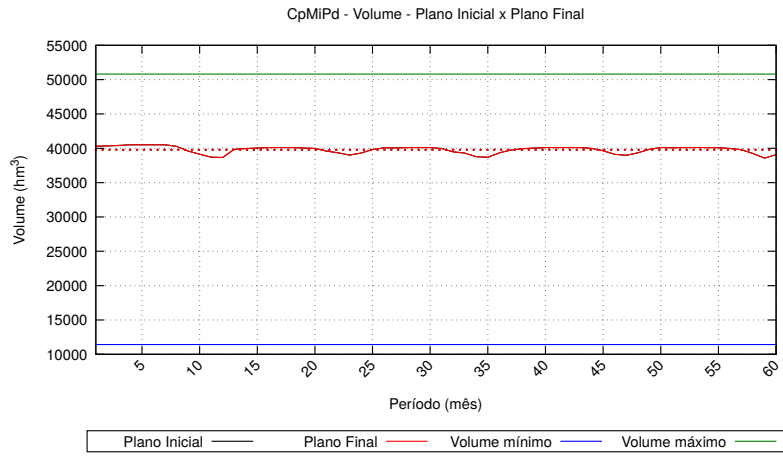
7.6 Resultados - CpMiPd



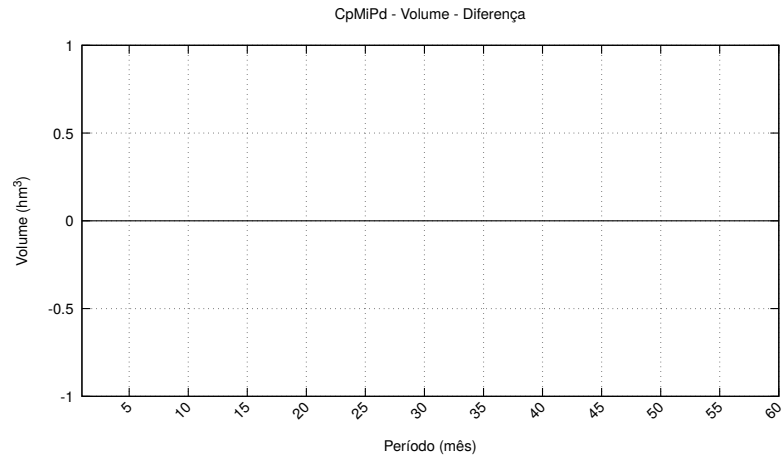
(a) CpMiPd



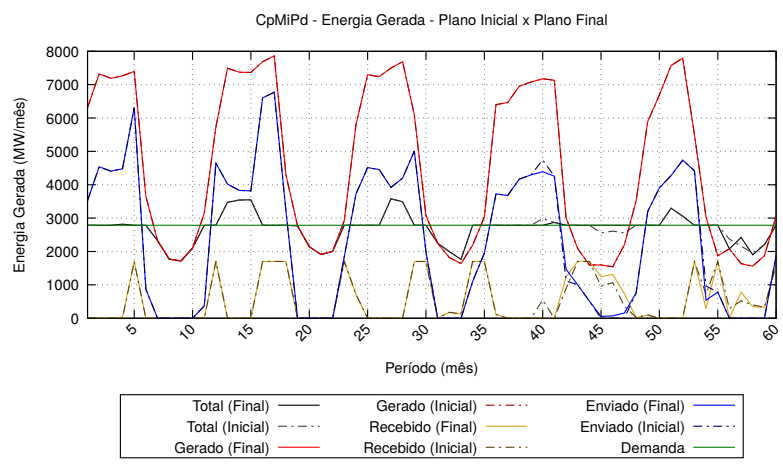
(b) CpMiPd



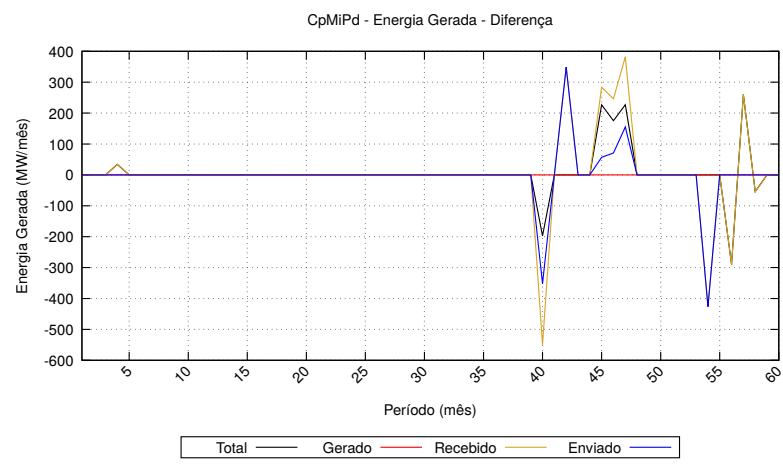
(a) CpMiPd



(b) CpMiPd

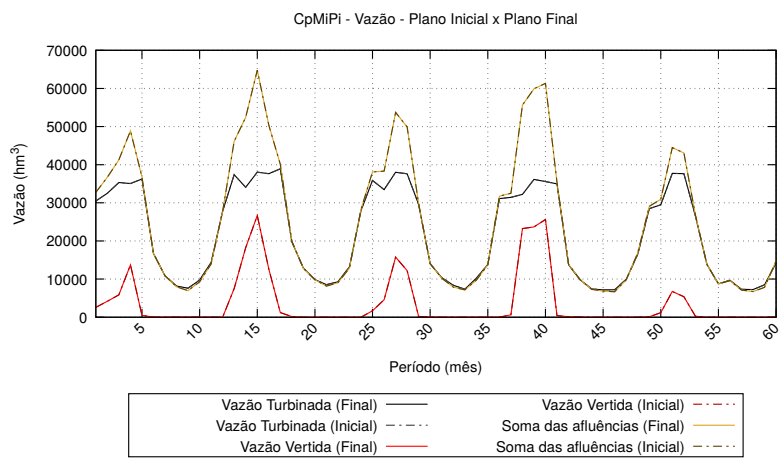


(a) CpMiPd

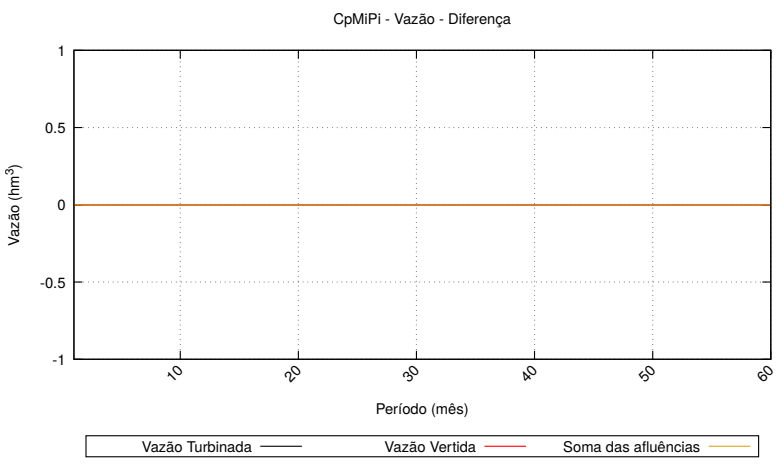


(b) CpMiPd

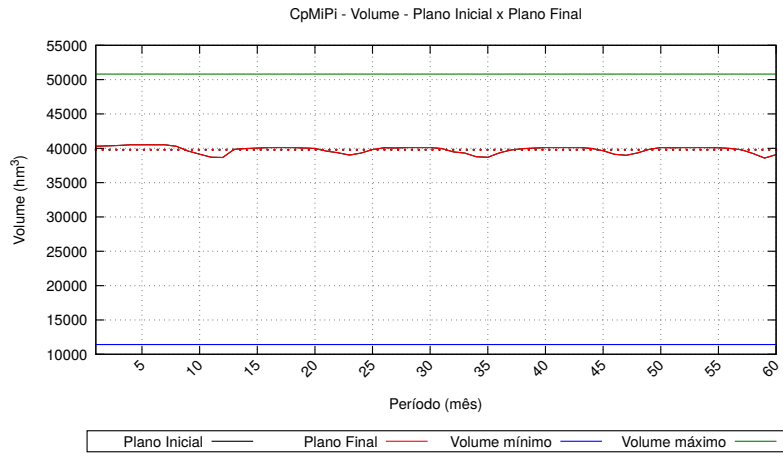
7.7 Resultados - CpMiPi



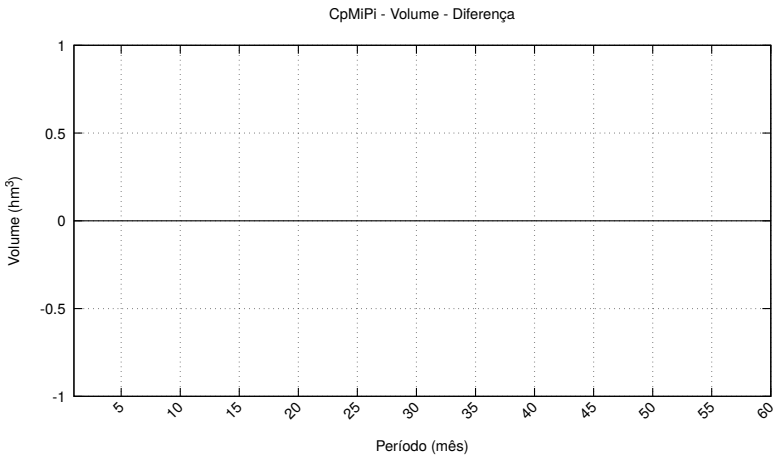
(a) CpMiPi



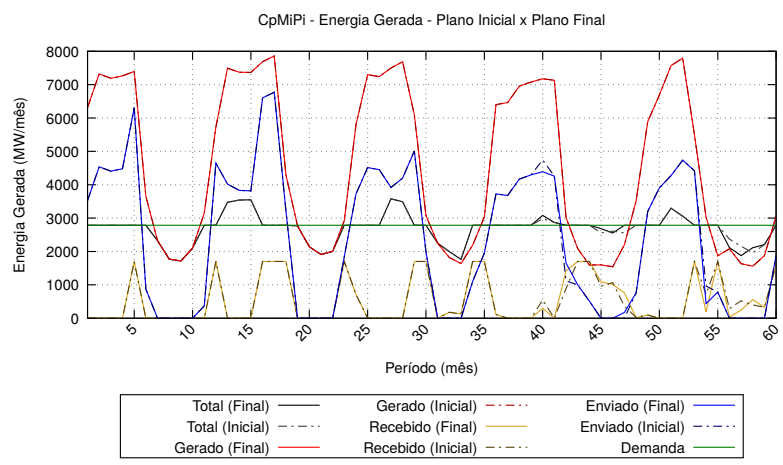
(b) CpMiPi



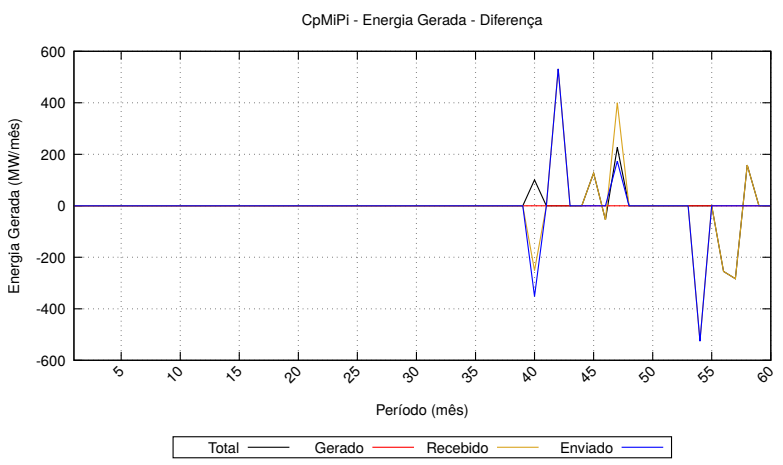
(a) CpMiPi



(b) CpMiPi

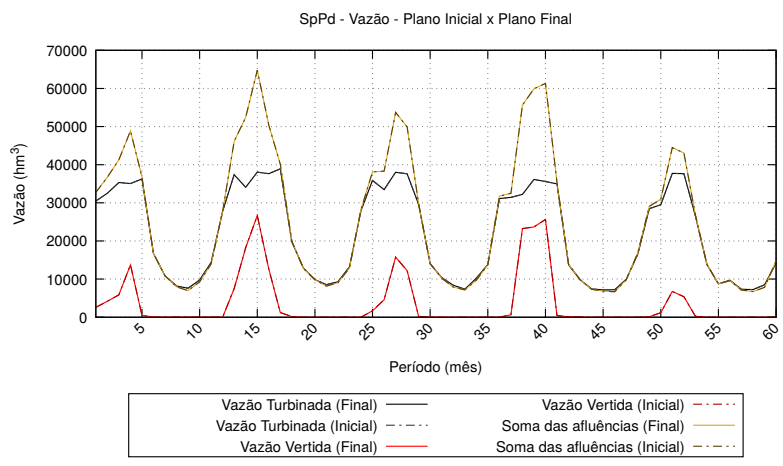


(a) CpMiPi

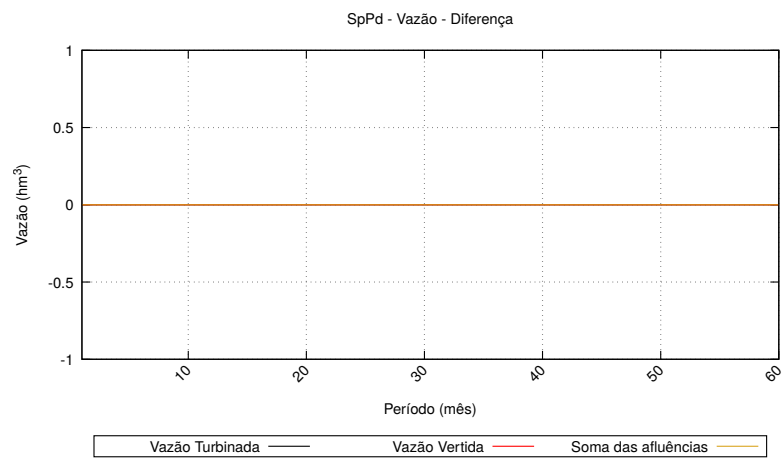


(b) CpMiPi

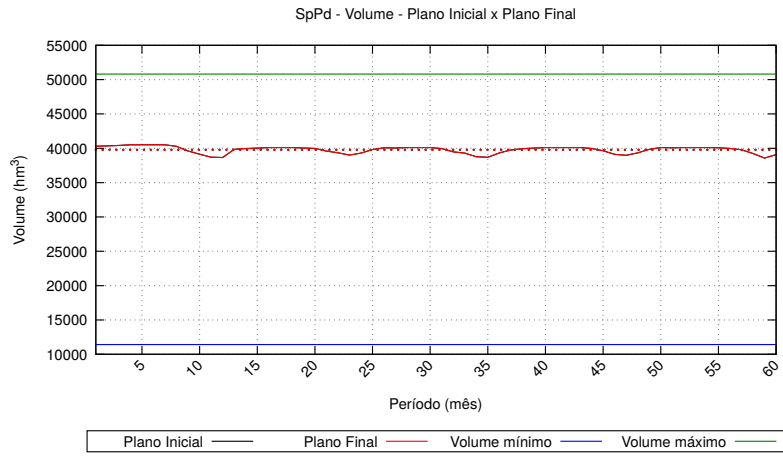
7.8 Resultados - SpPd



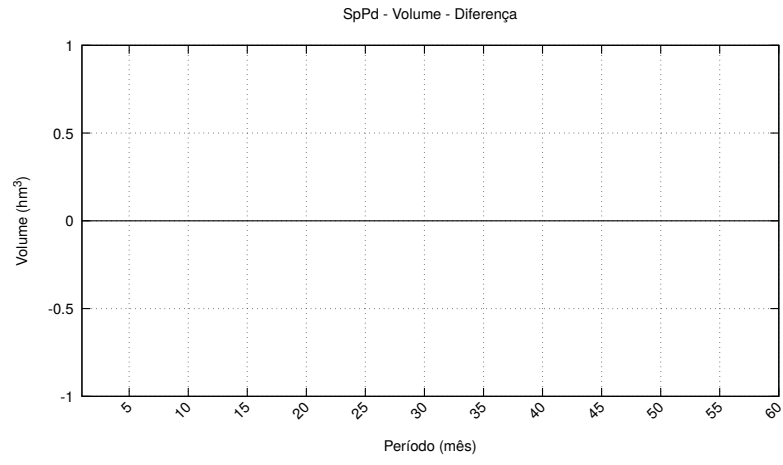
(a) SpPd



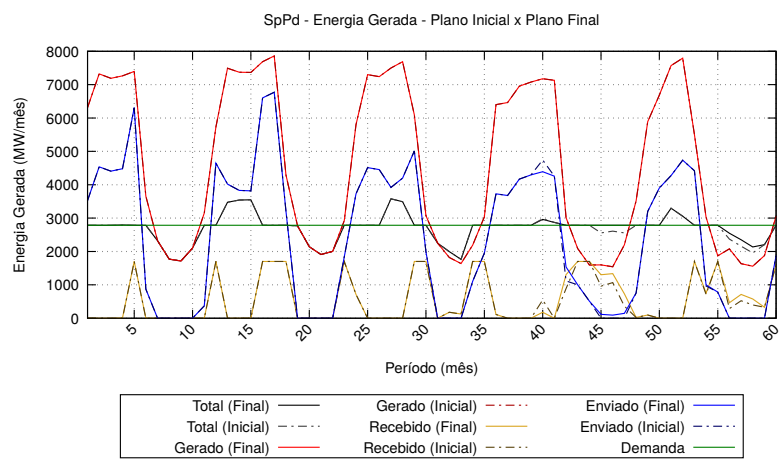
(b) SpPd



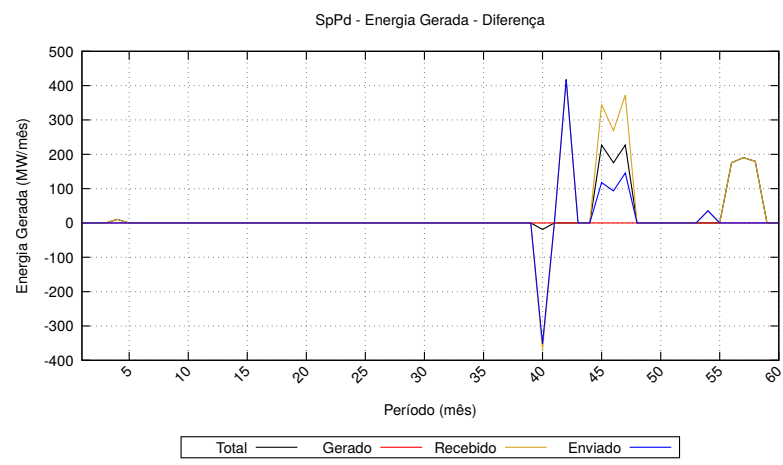
(a) SpPd



(b) SpPd



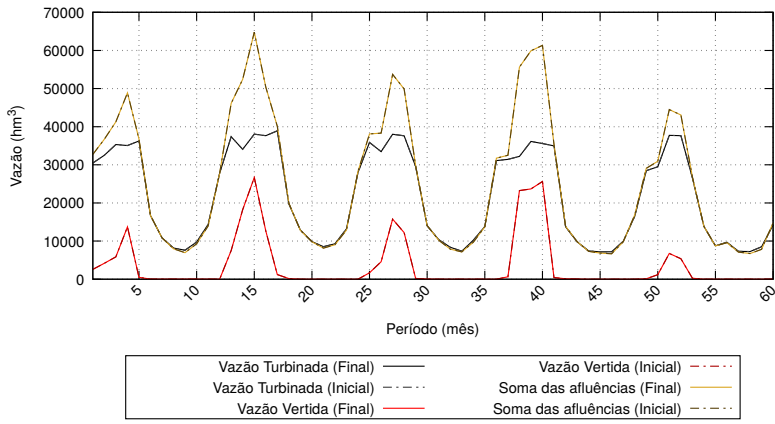
(a) SpPd



(b) SpPd

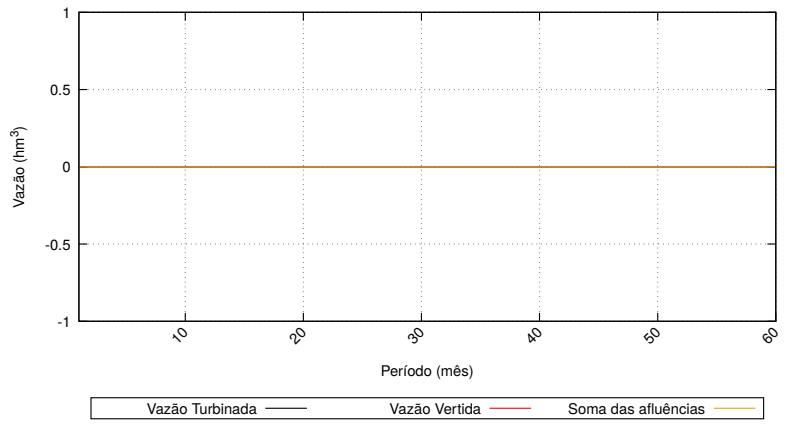
7.9 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



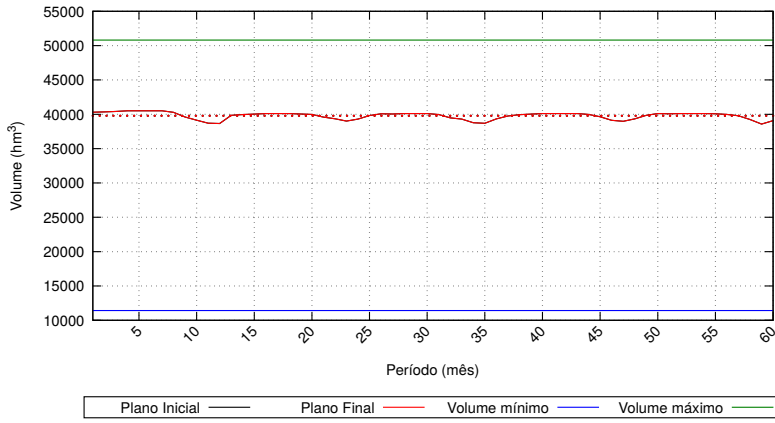
(a) SpPi

SpPi - Vazão - Diferença



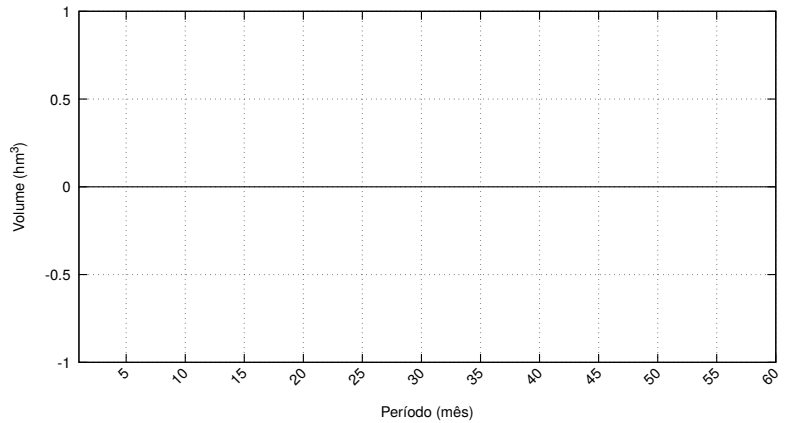
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



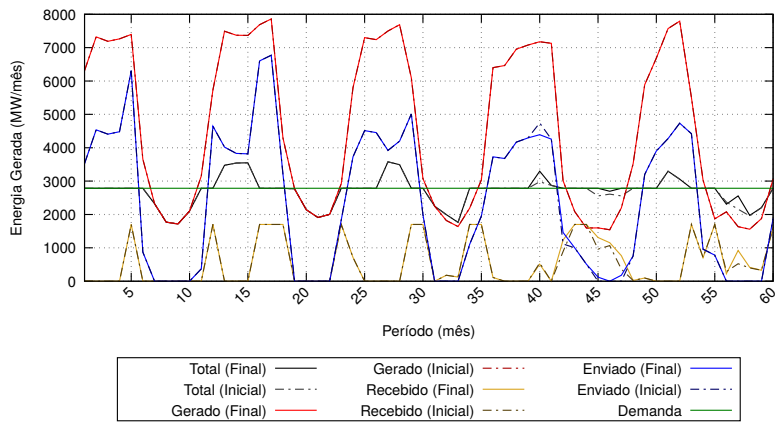
(a) SpPi

SpPi - Volume - Diferença



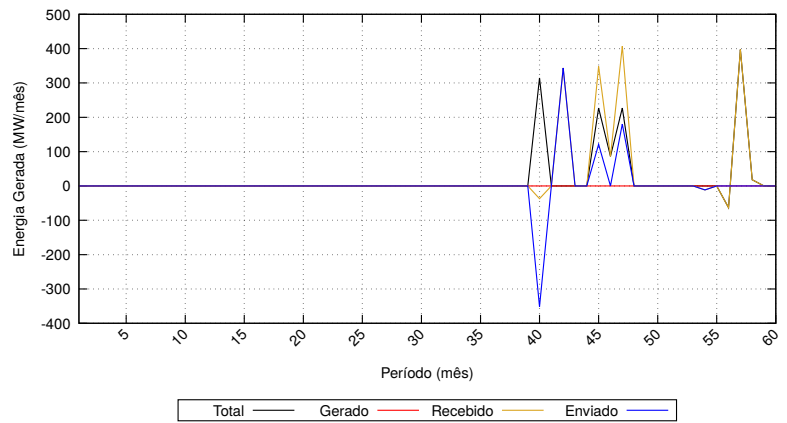
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

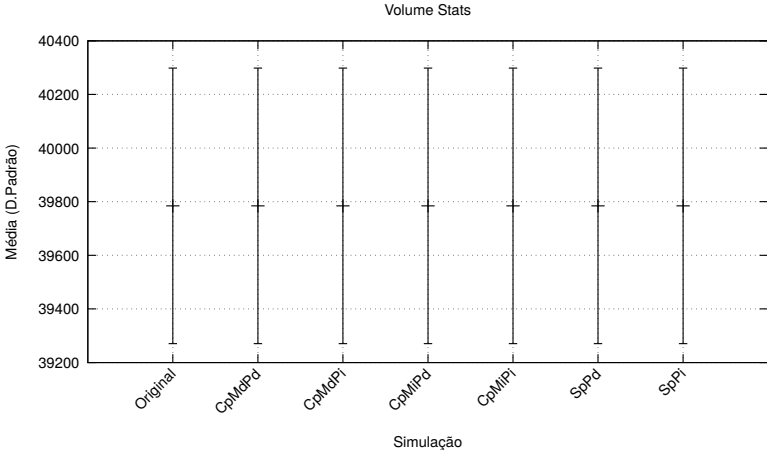


(b) SpPi

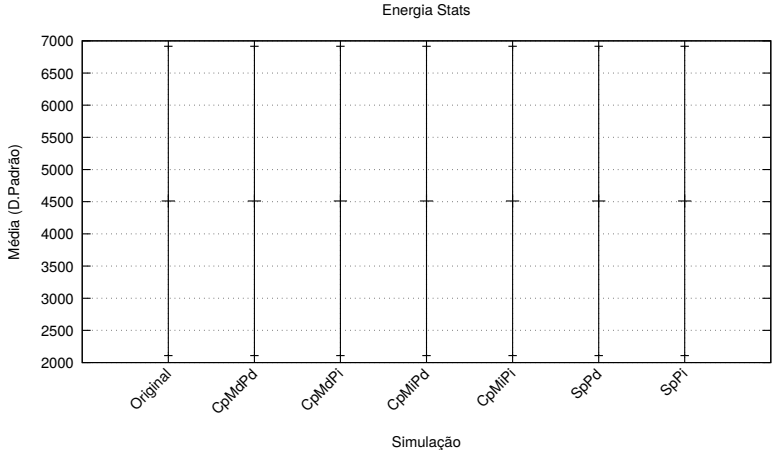
7.10 GPlan Stats

Tabela 12: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	39784.56039	513.94075	4511.97469	2404.10485
CpMdPd	39784.56039	513.94075	4511.97469	2404.10485
CpMdPi	39784.56039	513.94075	4511.97469	2404.10485
CpMiPd	39784.56039	513.94075	4511.97469	2404.10485
CpMiPi	39784.56039	513.94075	4511.97469	2404.10485
SpPd	39784.56039	513.94075	4511.97469	2404.10485
SpPi	39784.56039	513.94075	4511.97469	2404.10485



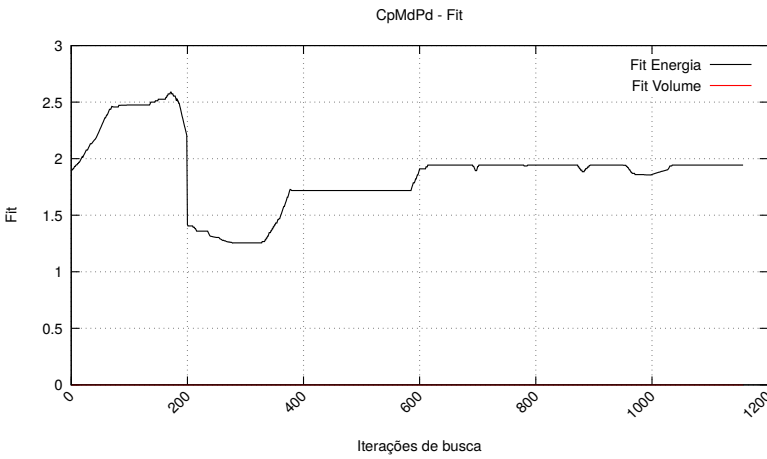
(a) Volume



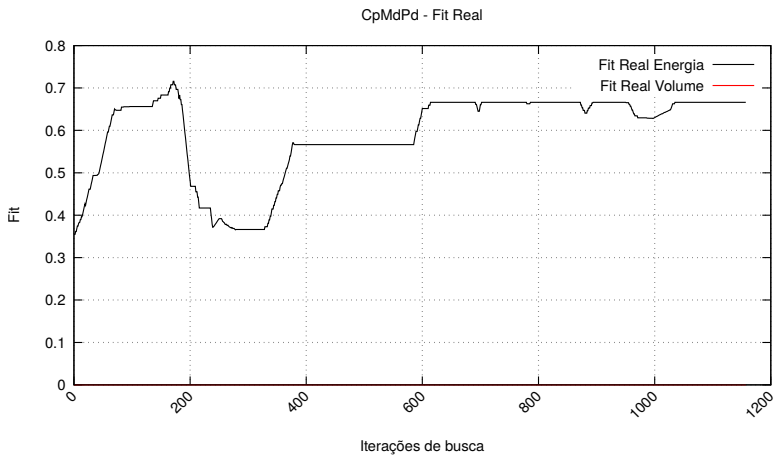
(b) Energia

8 SubSistema 5

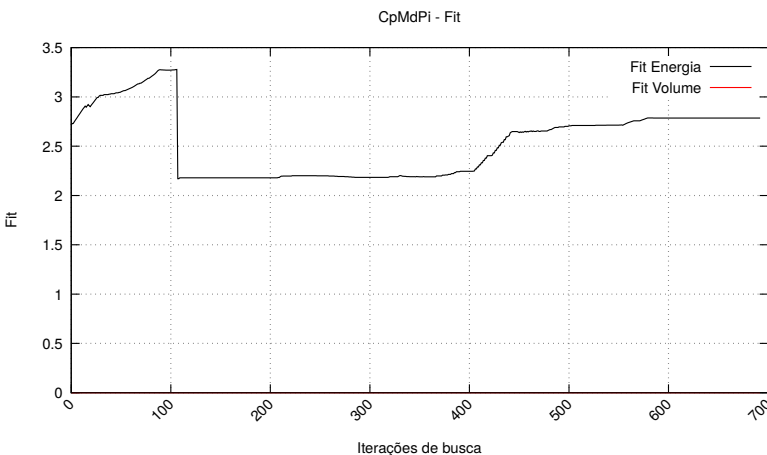
8.1 Fit/RealFit



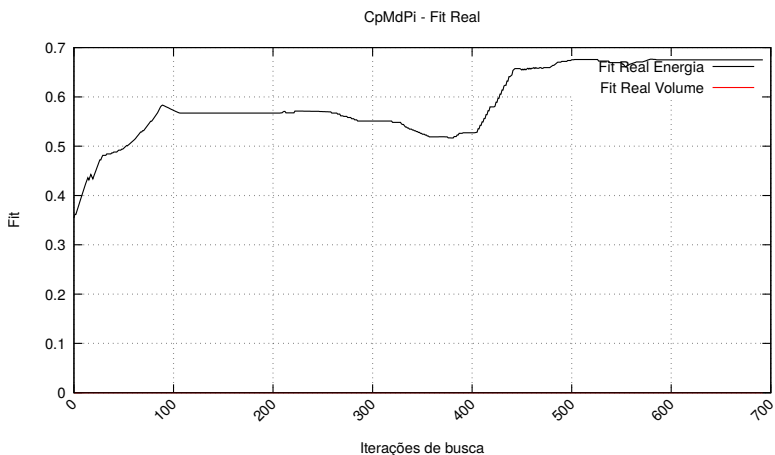
(a) CpMdPd



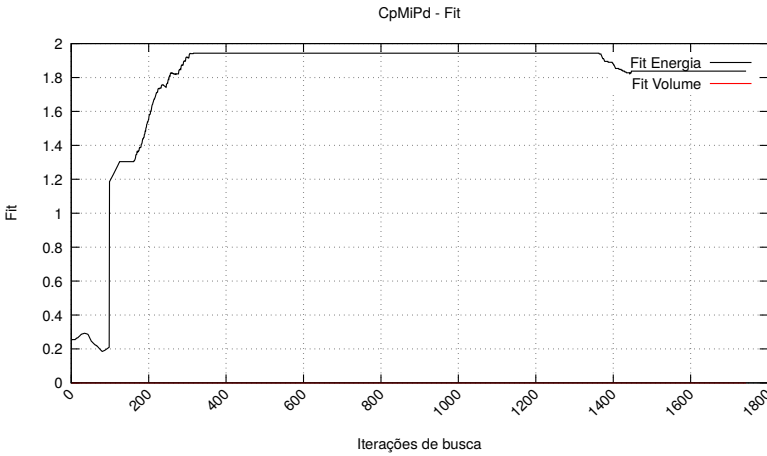
(b) CpMdPd



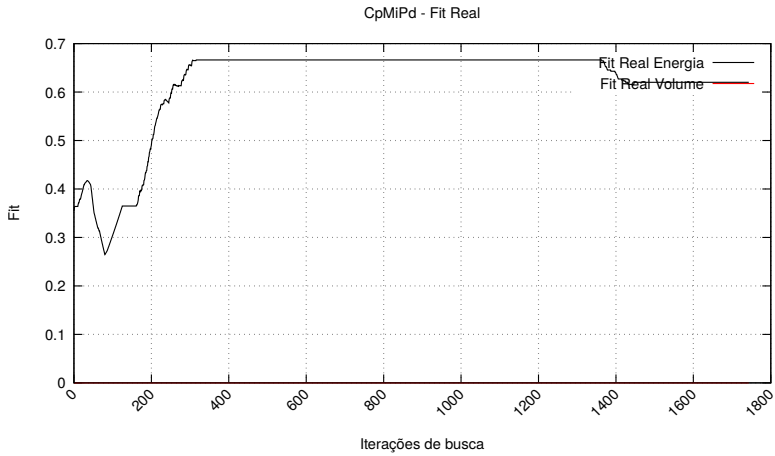
(a) CpMdPi



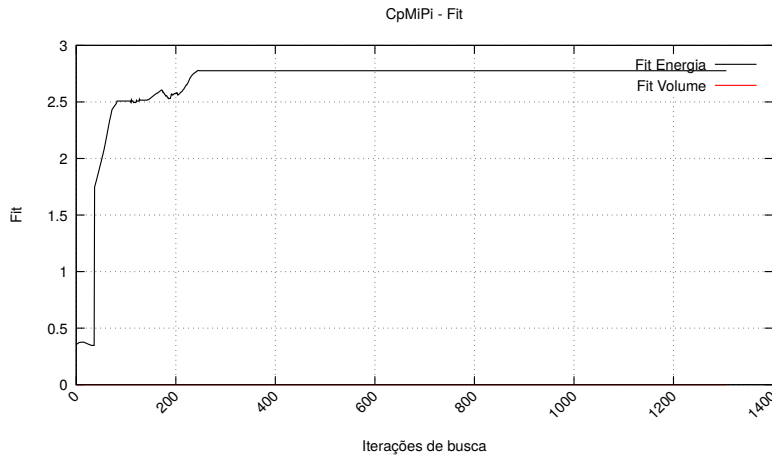
(b) CpMdPi



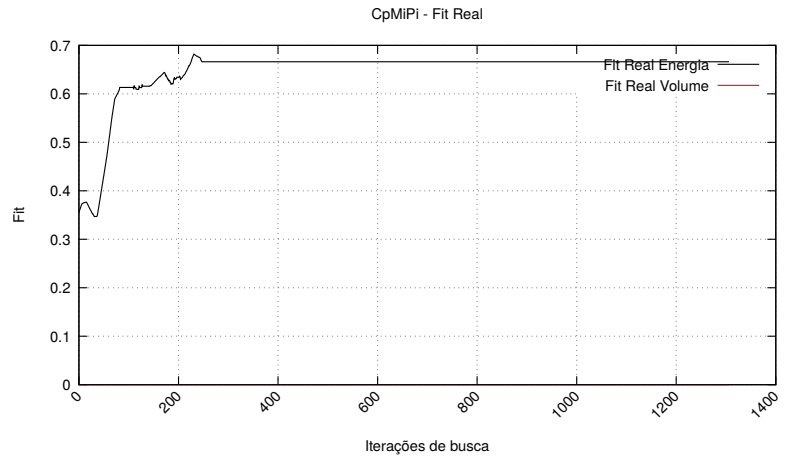
(a) CpMiPd



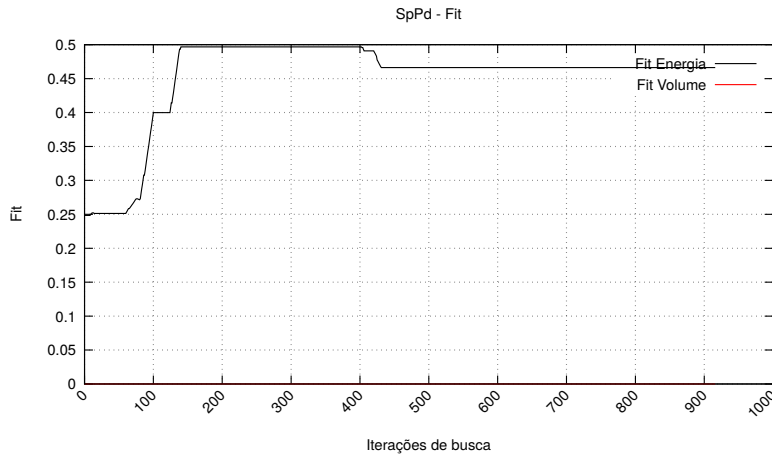
(b) CpMiPd



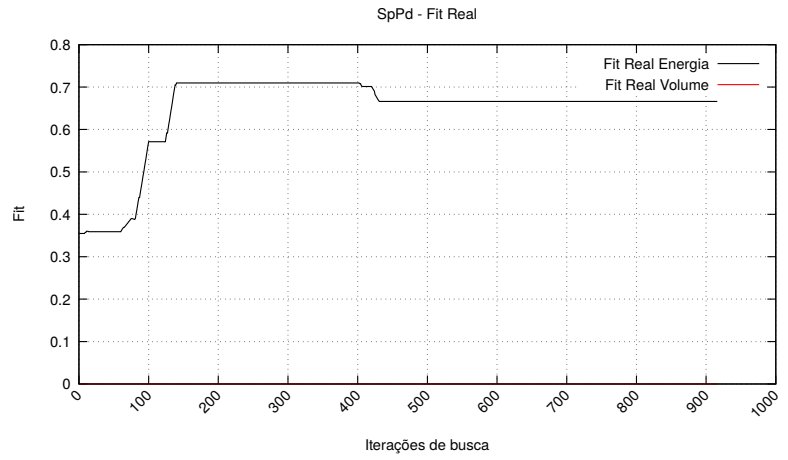
(a) CpMiPi



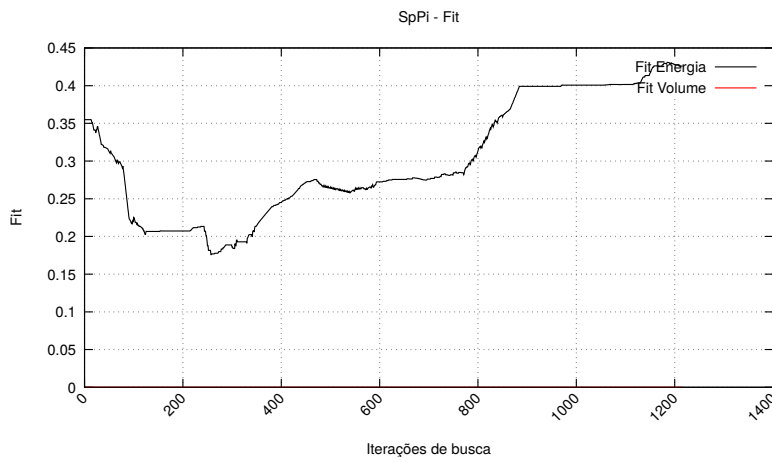
(b) CpMiPi



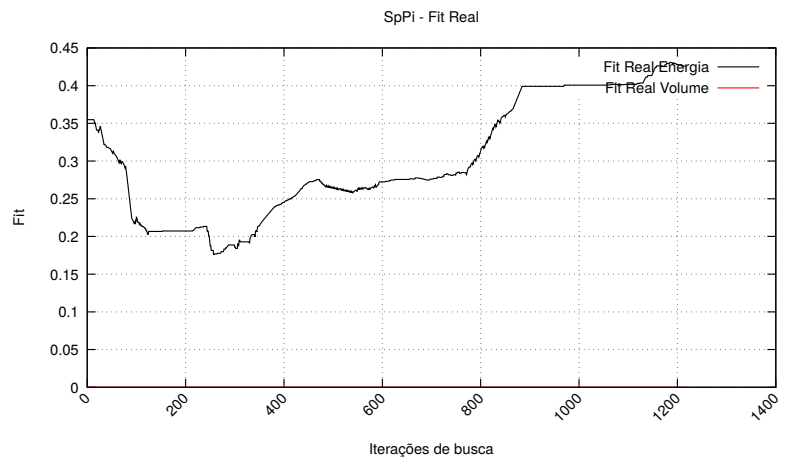
(a) SpPd



(b) SpPd



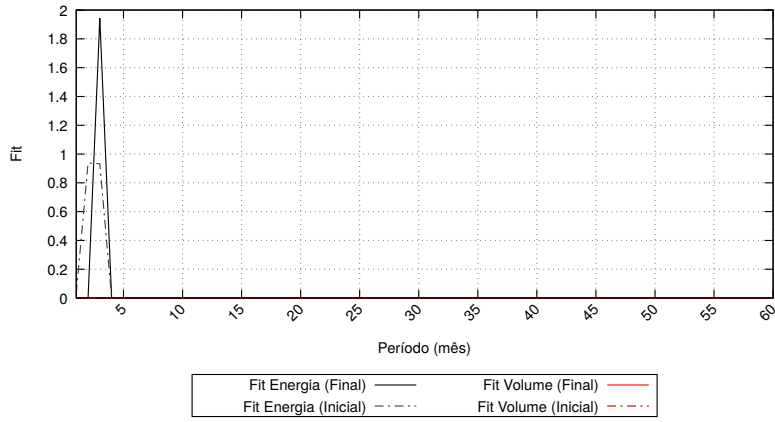
(a) SpPi



(b) SpPi

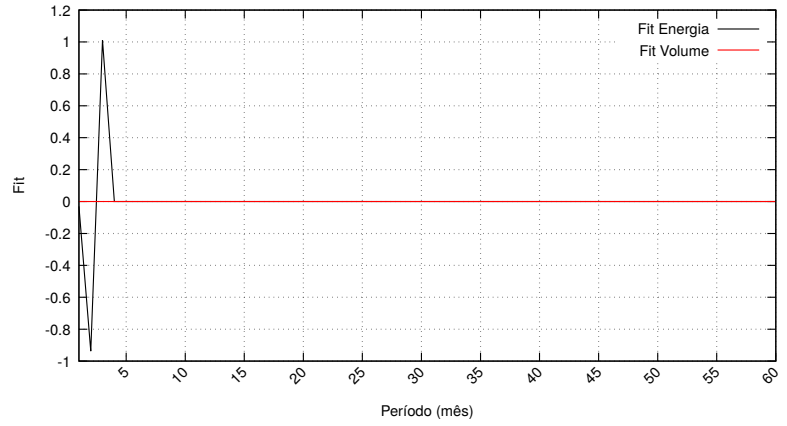
8.2 Energia/Volume Fit

CpMdPd - Fit - Plano Inicial x Plano Final



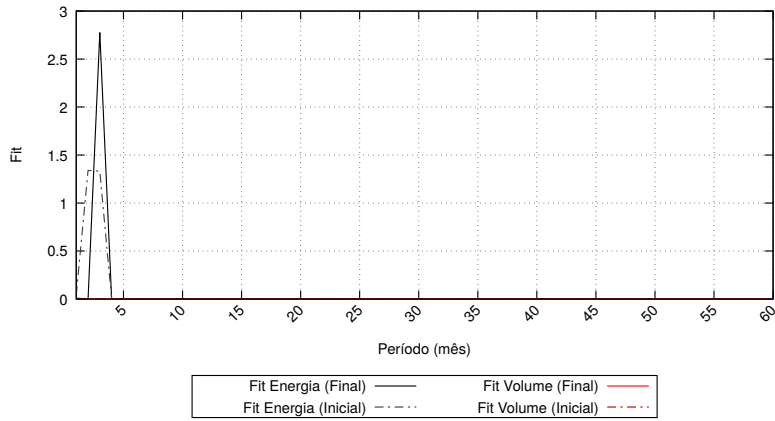
(a) CpMdPd

CpMdPd - Fit - Diferença



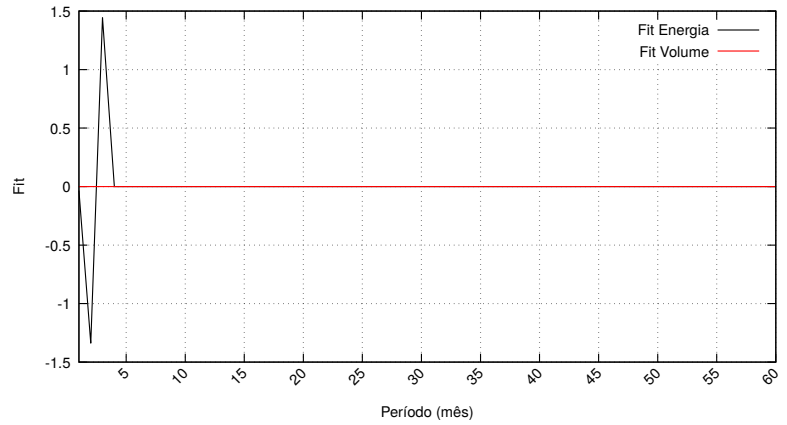
(b) CpMdPd

CpMdPi - Fit - Plano Inicial x Plano Final



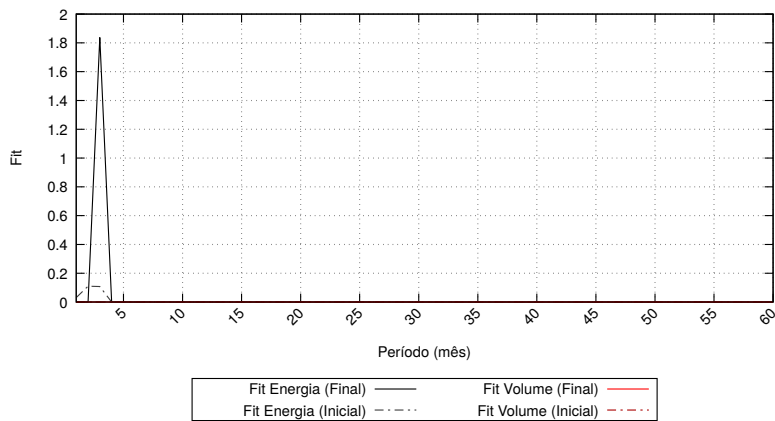
(a) CpMdPi

CpMdPi - Fit - Diferença



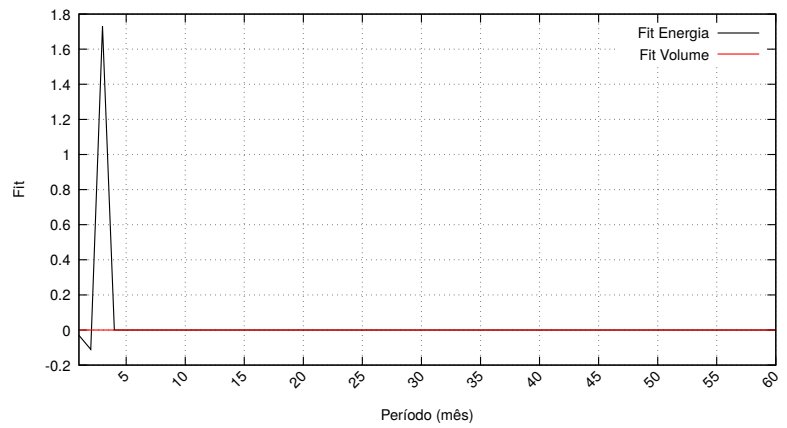
(b) CpMdPi

CpMiPd - Fit - Plano Inicial x Plano Final



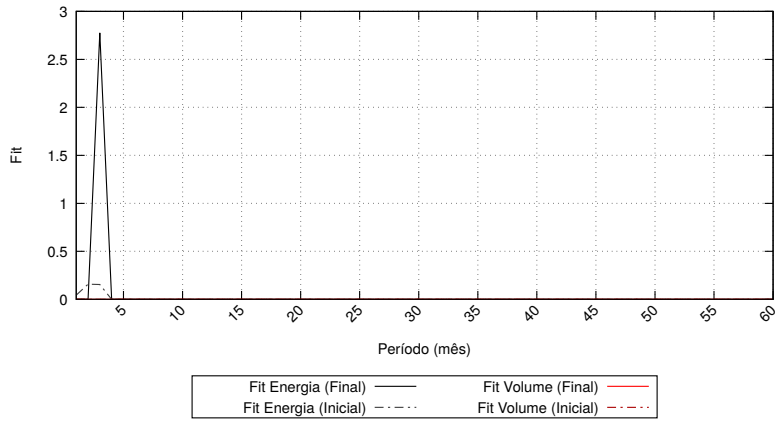
(a) CpMiPd

CpMiPd - Fit - Diferença



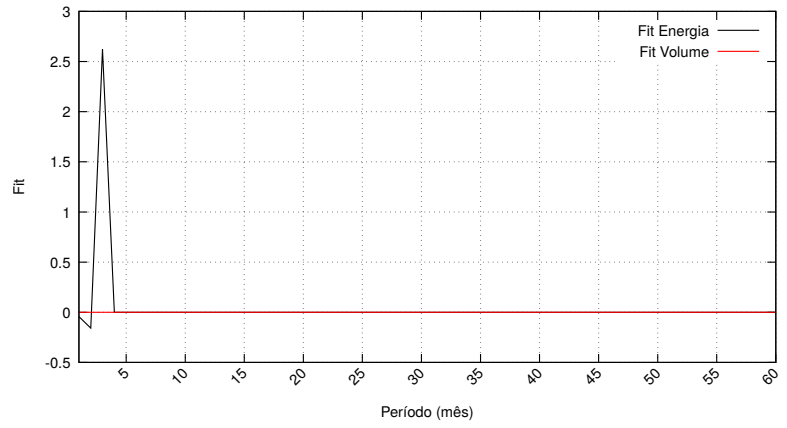
(b) CpMiPd

CpMiPi - Fit - Plano Inicial x Plano Final



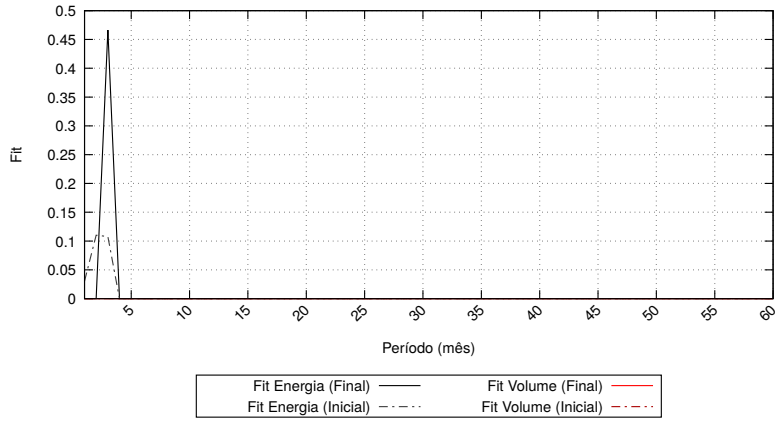
(a) CpMiPi

CpMiPi - Fit - Diferença



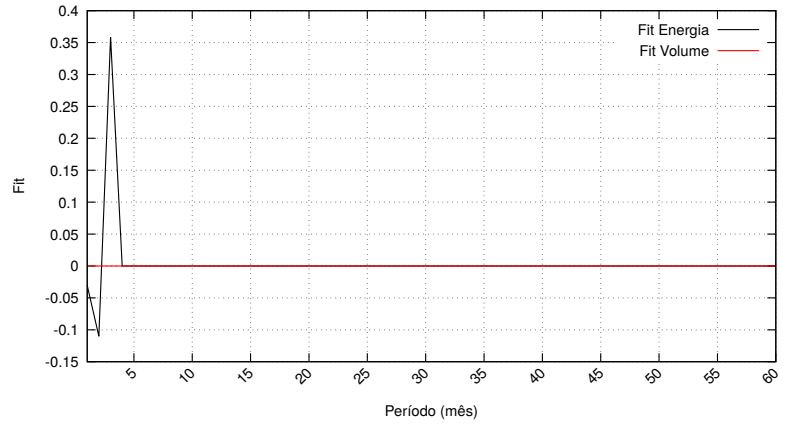
(b) CpMiPi

SpPd - Fit - Plano Inicial x Plano Final



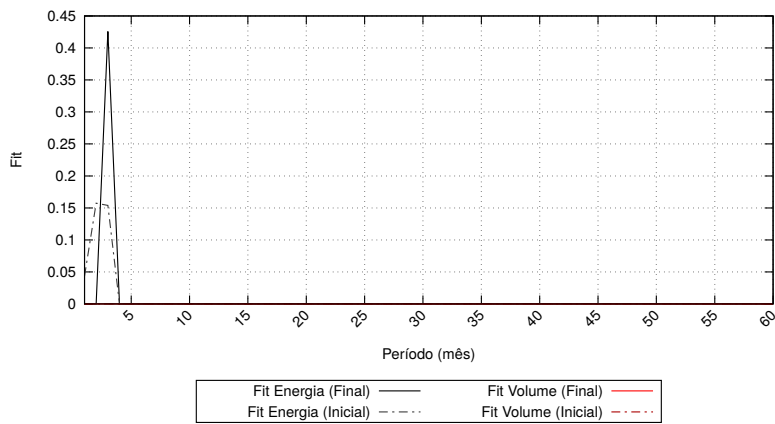
(a) SpPd

SpPd - Fit - Diferença



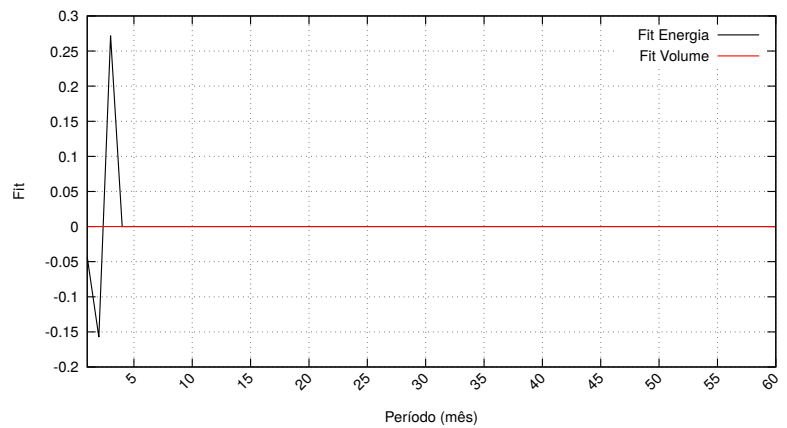
(b) SpPd

SpPi - Fit - Plano Inicial x Plano Final



(a) SpPi

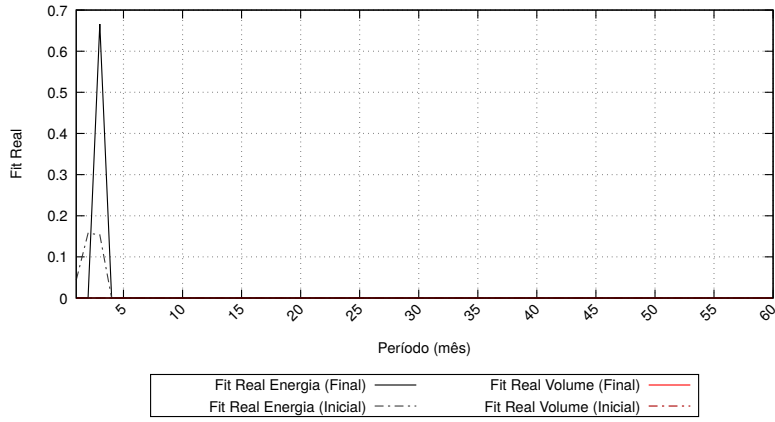
SpPi - Fit - Diferença



(b) SpPi

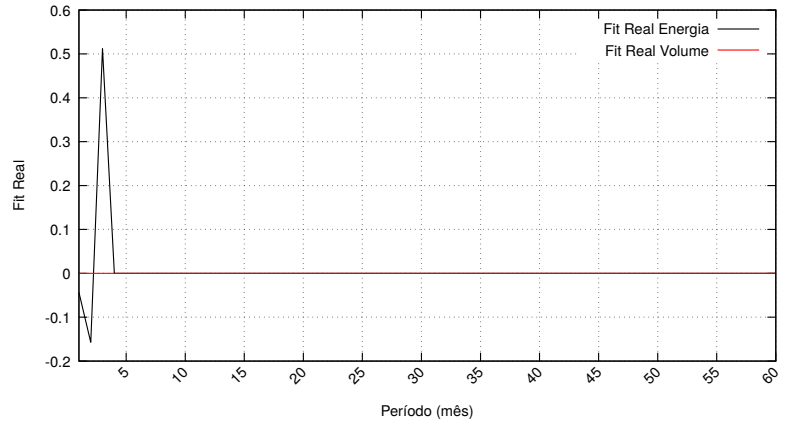
8.3 Energia/Volume RealFit

CpMdPd - Real Fit - Plano Inicial x Plano Final



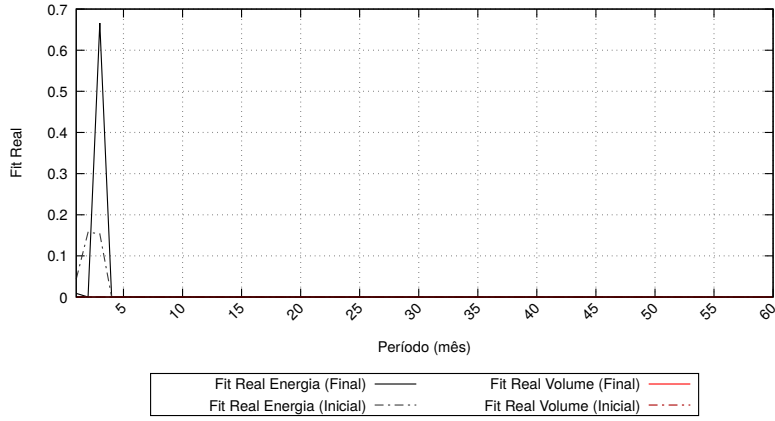
(a) CpMdPd

CpMdPd - Real Fit - Diferença



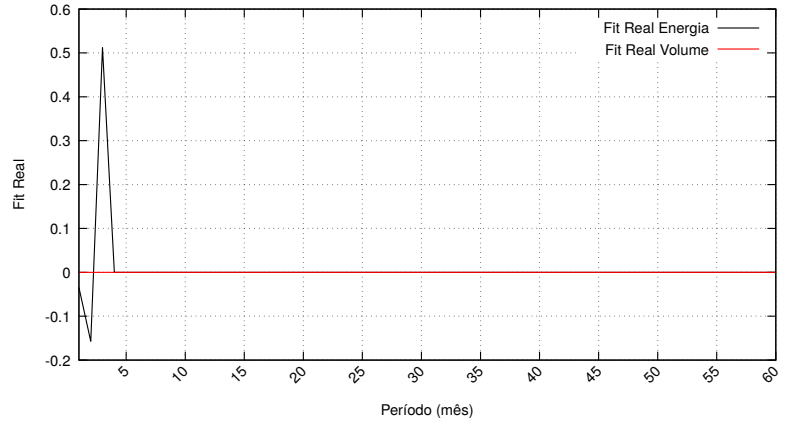
(b) CpMdPd

CpMdPi - Real Fit - Plano Inicial x Plano Final



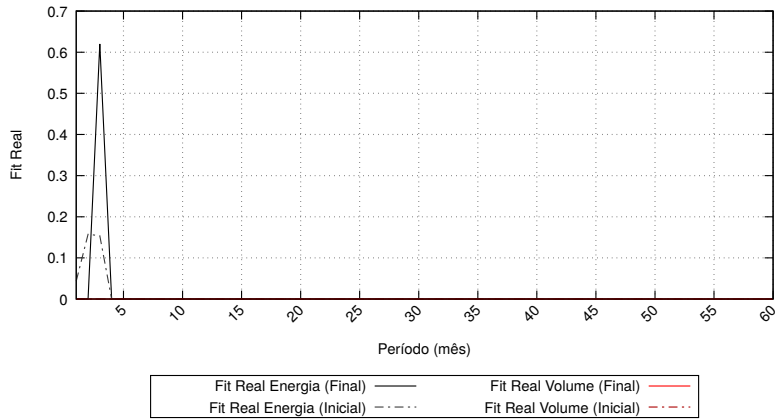
(a) CpMdPi

CpMdPi - Real Fit - Diferença



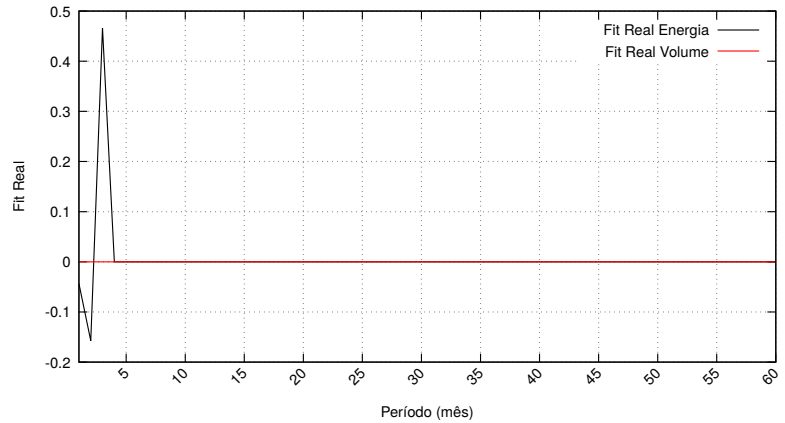
(b) CpMdPi

CpMiPd - Real Fit - Plano Inicial x Plano Final



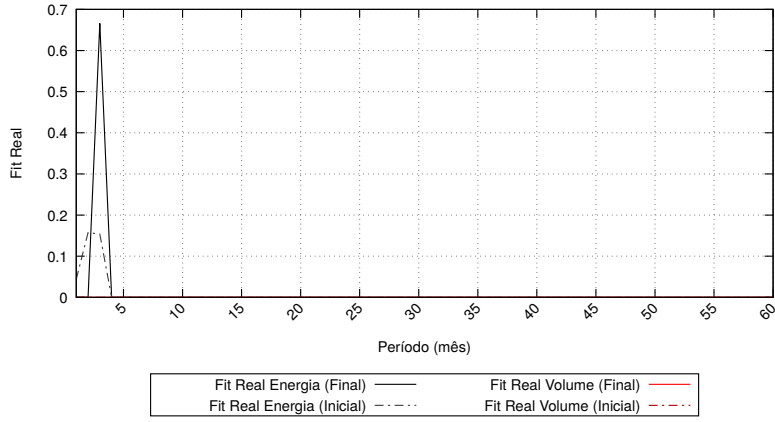
(a) CpMiPd

CpMiPd - Real Fit - Diferença



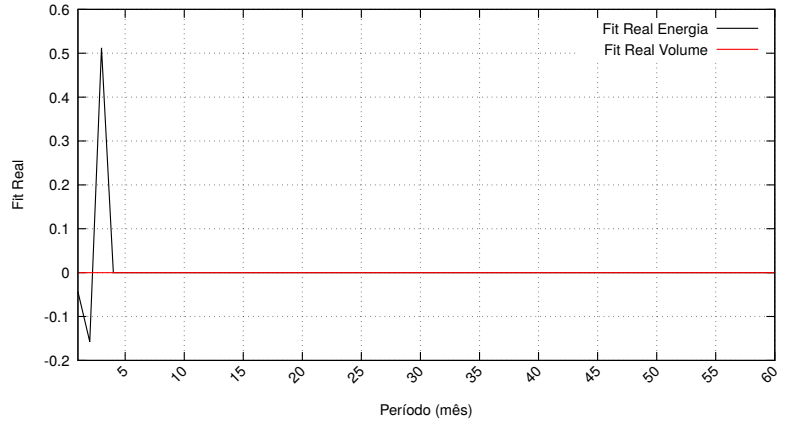
(b) CpMiPd

CpMiPi - Real Fit - Plano Inicial x Plano Final



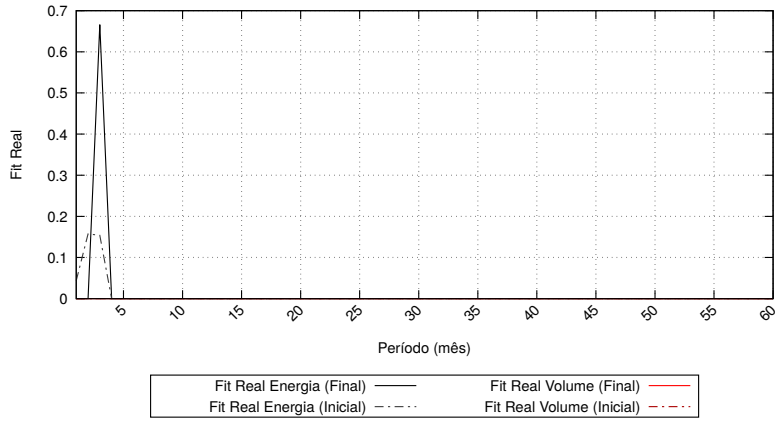
(a) CpMiPi

CpMiPi - Real Fit - Diferença



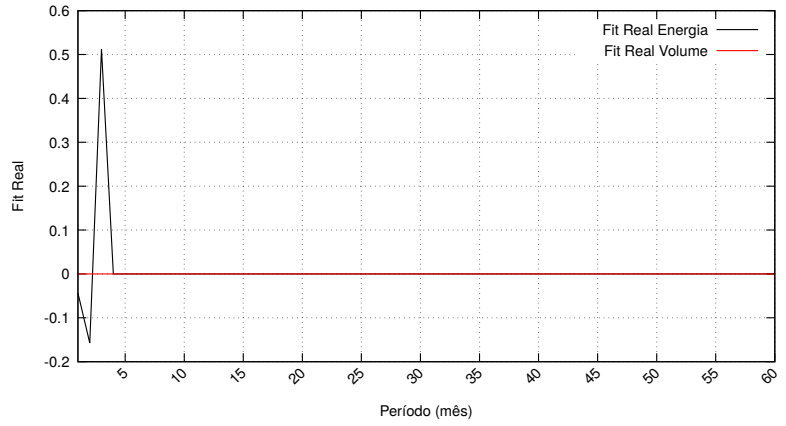
(b) CpMiPi

SpPd - Real Fit - Plano Inicial x Plano Final



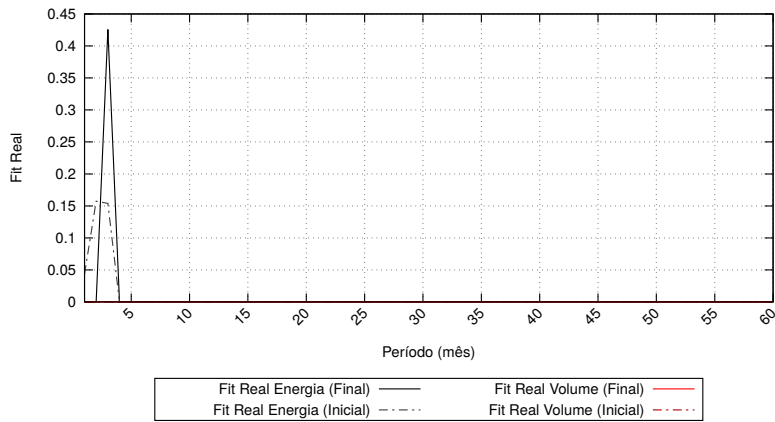
(a) SpPd

SpPd - Real Fit - Diferença



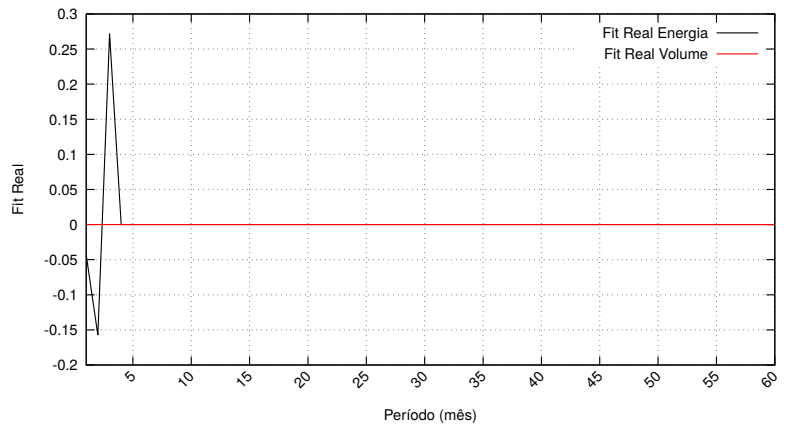
(b) SpPd

SpPi - Real Fit - Plano Inicial x Plano Final



(a) SpPi

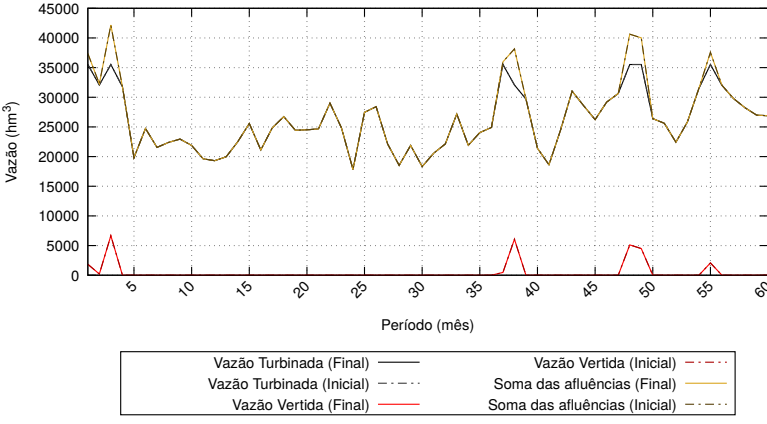
SpPi - Real Fit - Diferença



(b) SpPi

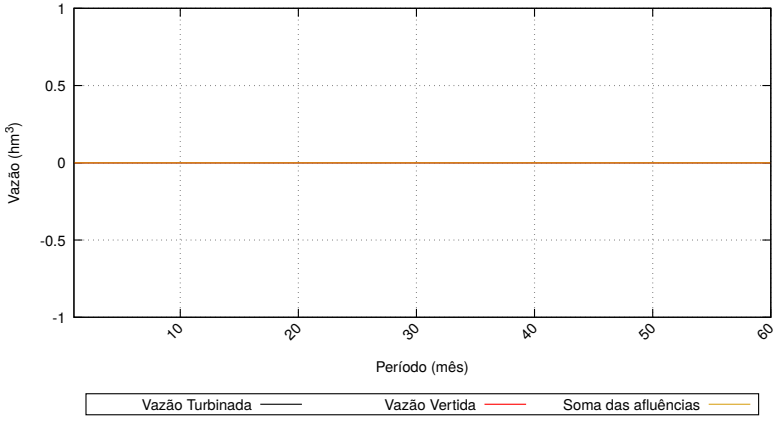
8.4 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



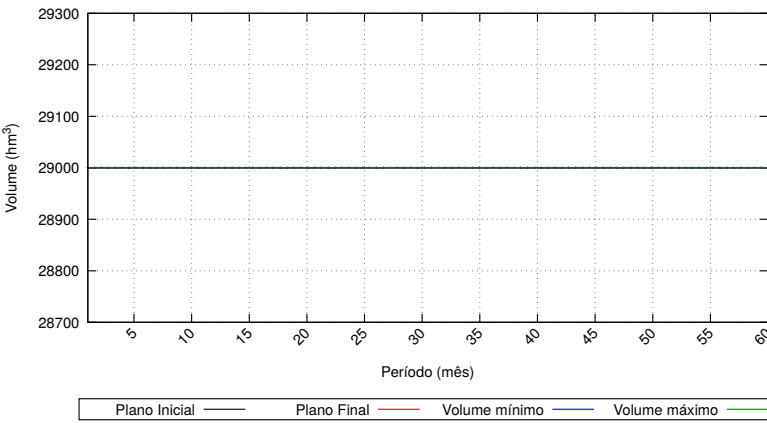
(a) CpMdPd

CpMdPd - Vazão - Diferença



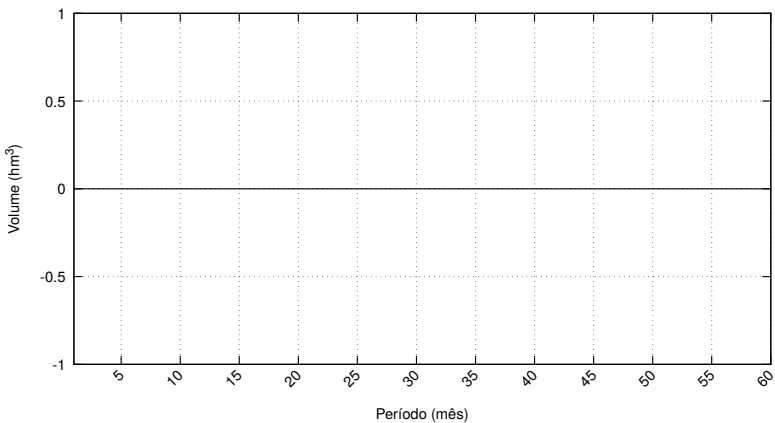
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



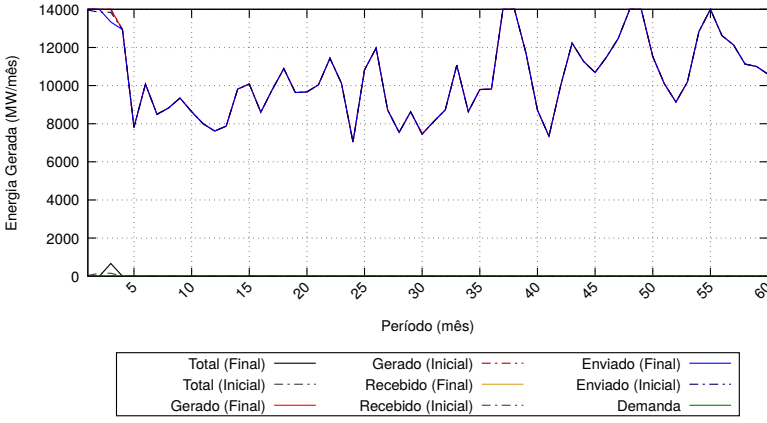
(a) CpMdPd

CpMdPd - Volume - Diferença



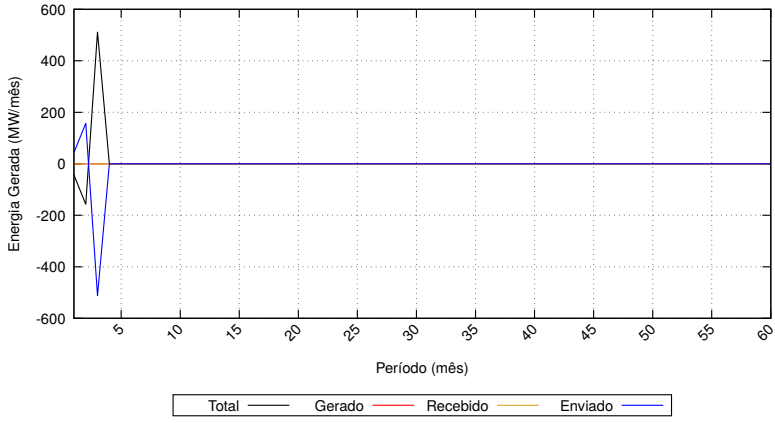
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

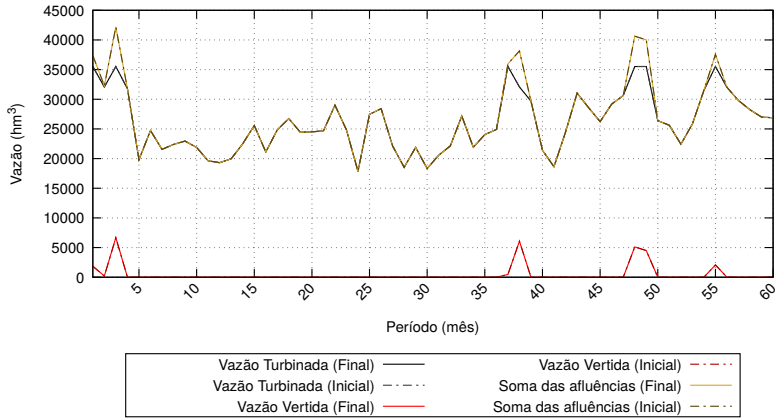
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

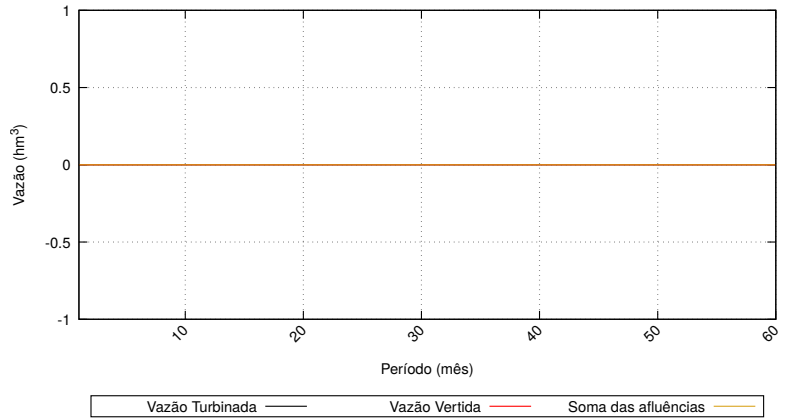
8.5 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



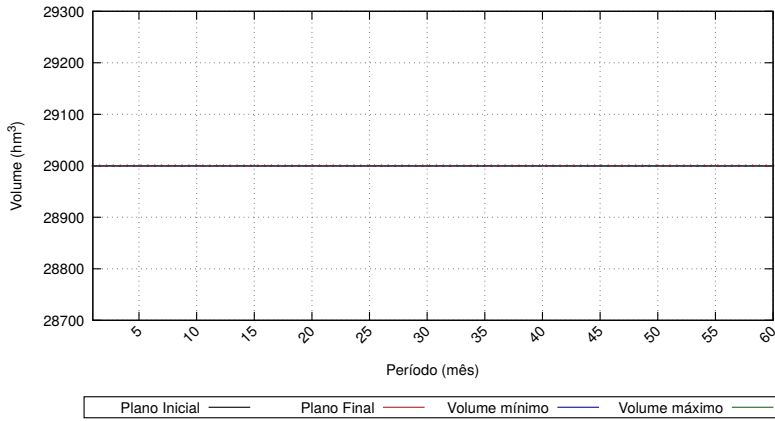
(a) CpMdPi

CpMdPi - Vazão - Diferença



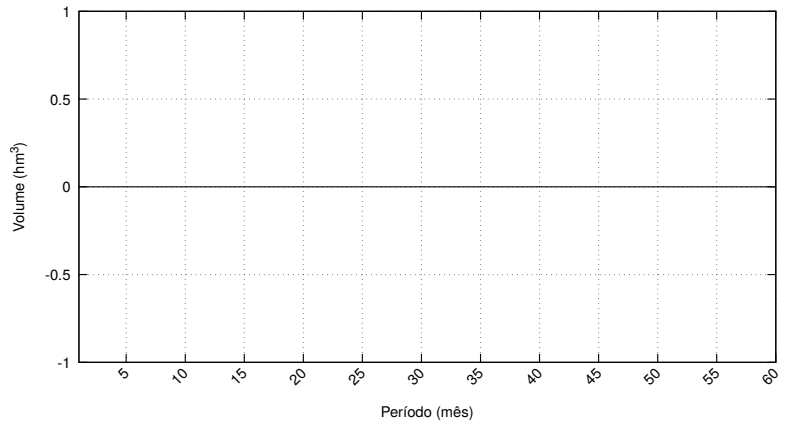
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



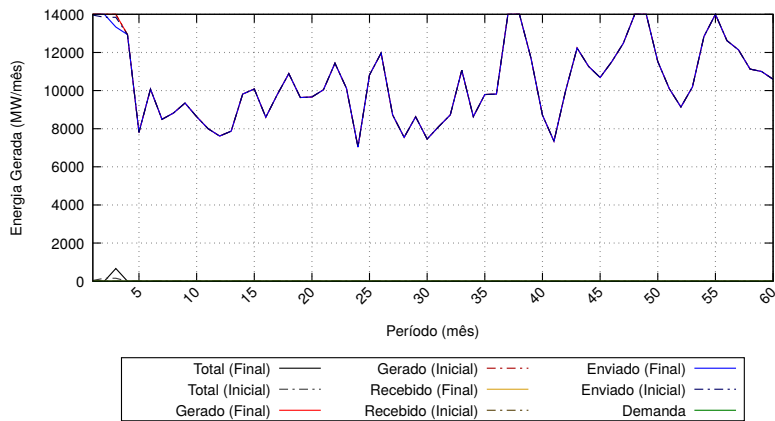
(a) CpMdPi

CpMdPi - Volume - Diferença



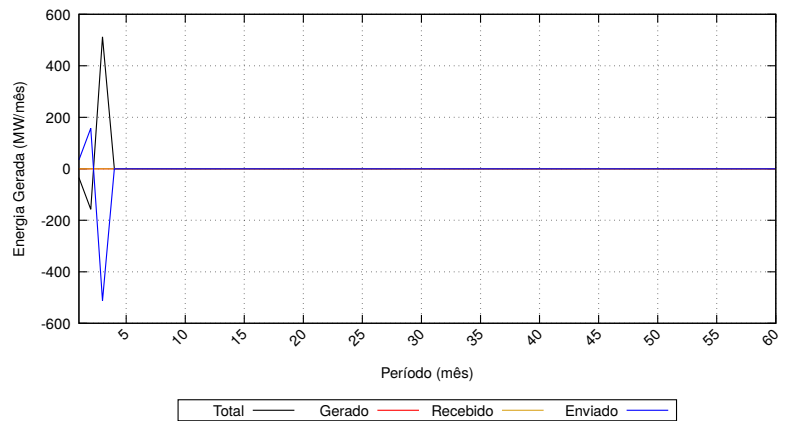
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

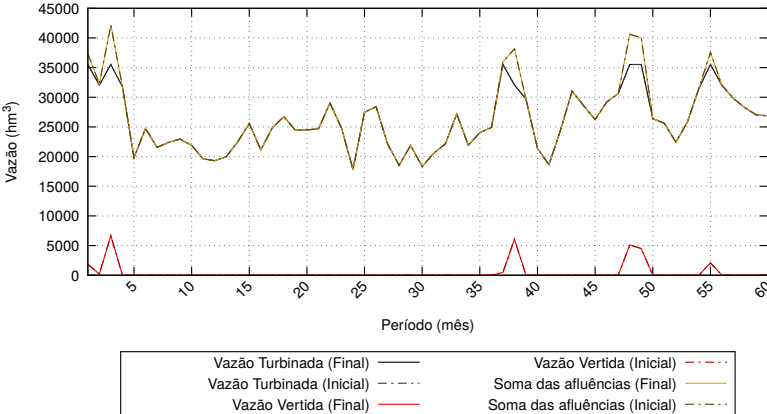
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

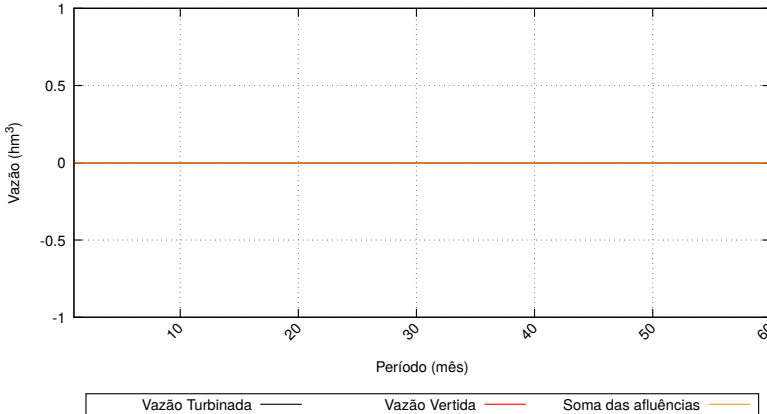
8.6 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



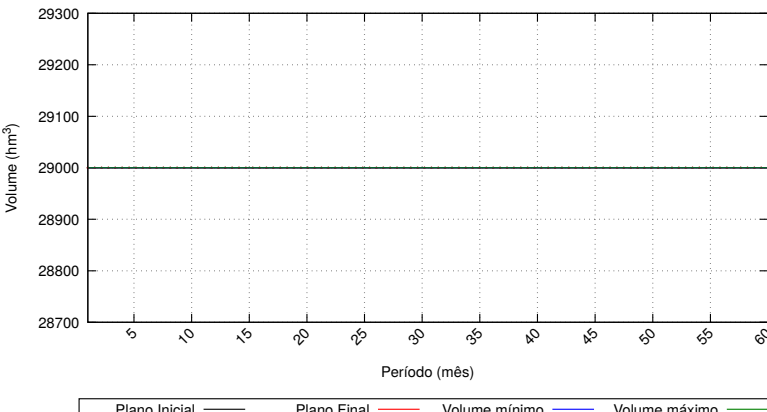
(a) CpMiPd

CpMiPd - Vazão - Diferença



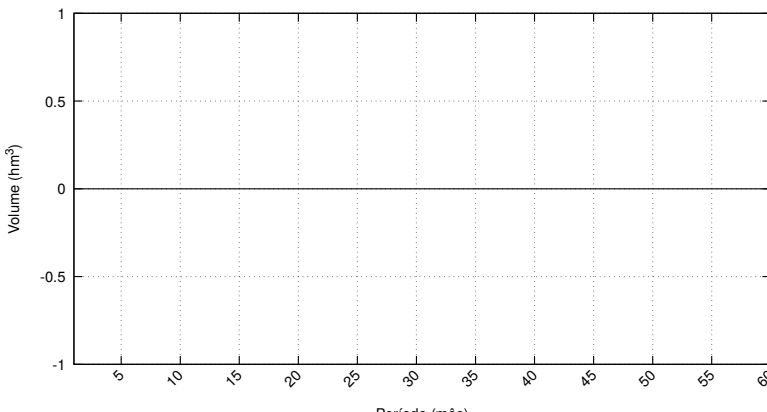
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



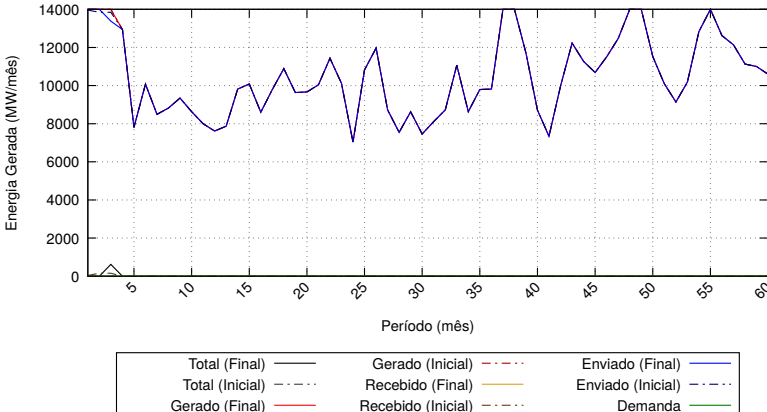
(a) CpMiPd

CpMiPd - Volume - Diferença



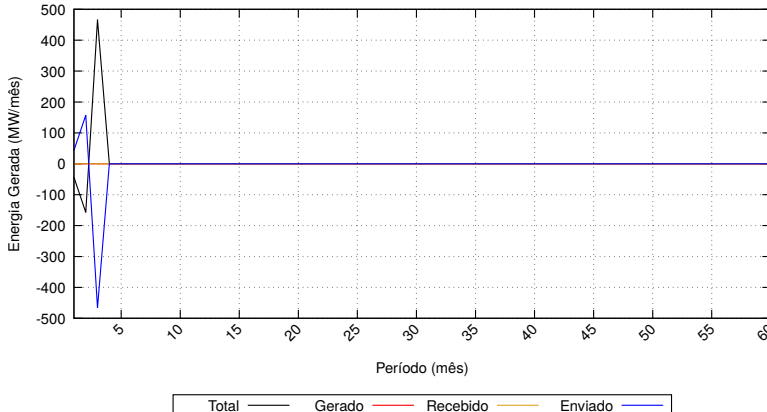
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

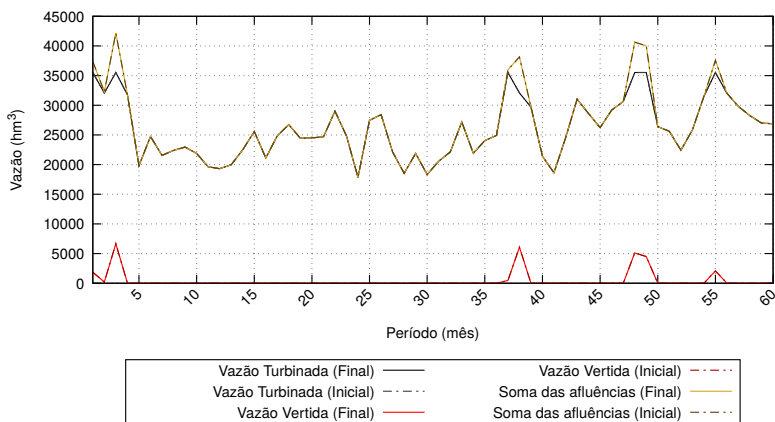
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

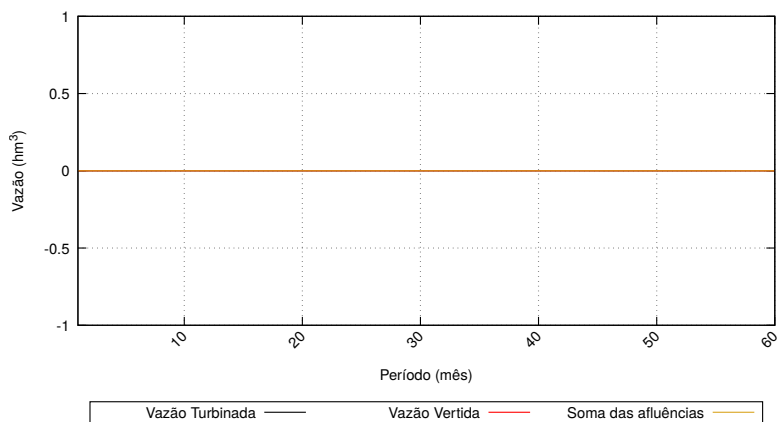
8.7 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



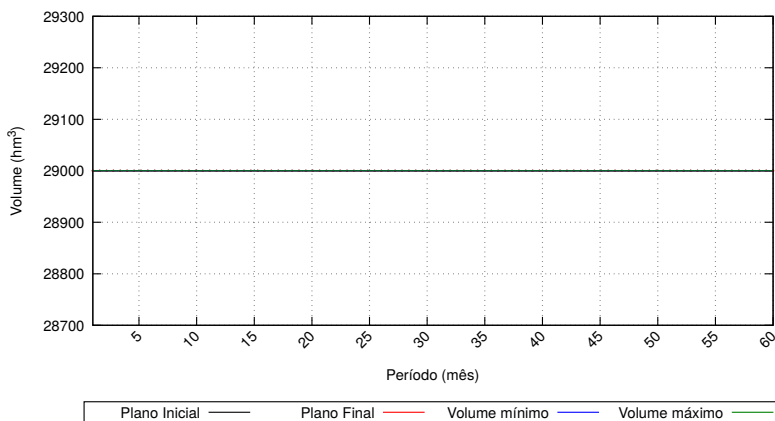
(a) CpMiPi

CpMiPi - Vazão - Diferença



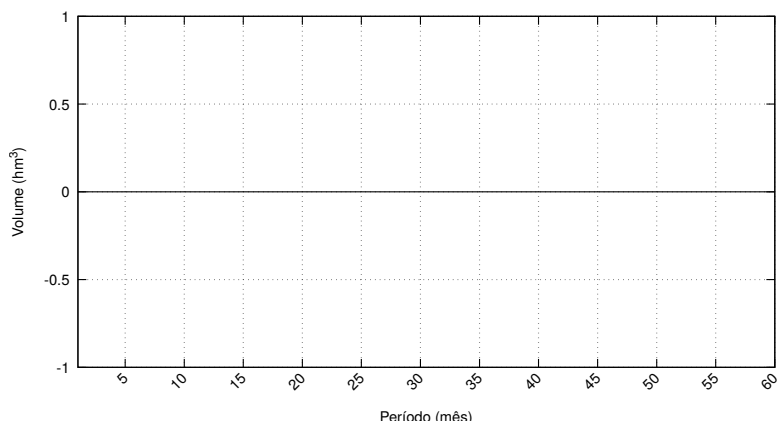
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



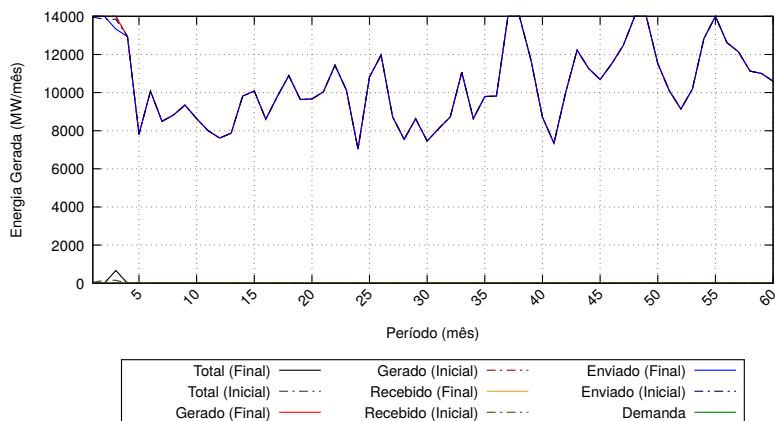
(a) CpMiPi

CpMiPi - Volume - Diferença



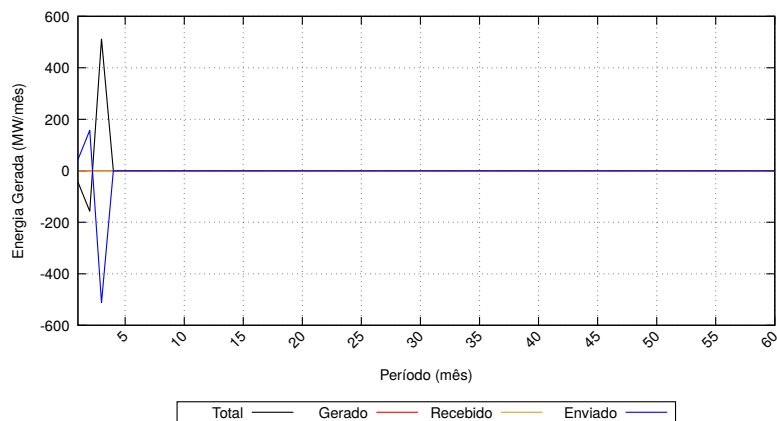
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



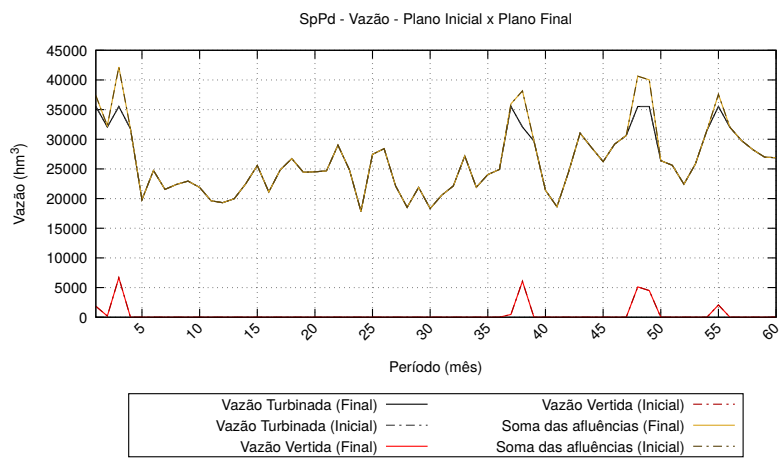
(a) CpMiPi

CpMiPi - Energia Gerada - Diferença

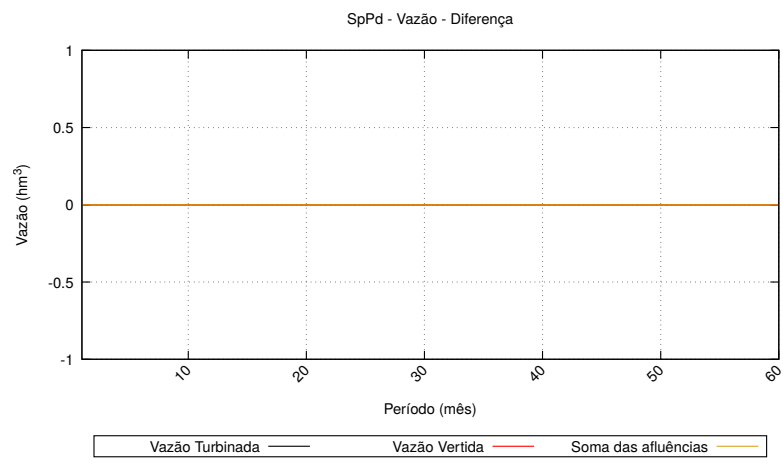


(b) CpMiPi

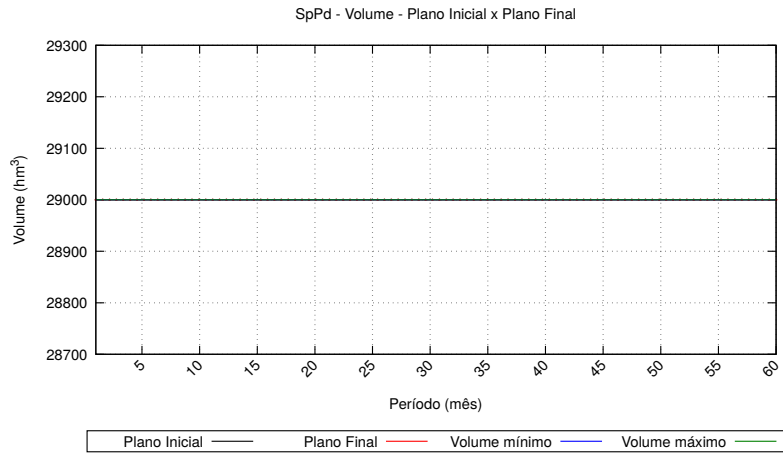
8.8 Resultados - SpPd



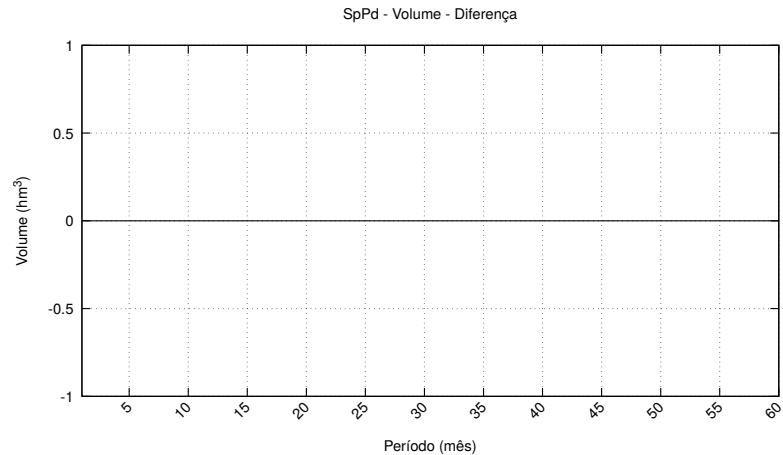
(a) SpPd



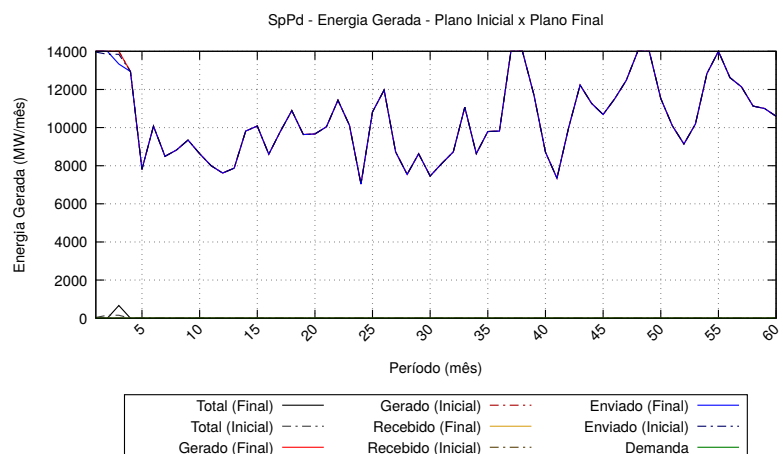
(b) SpPd



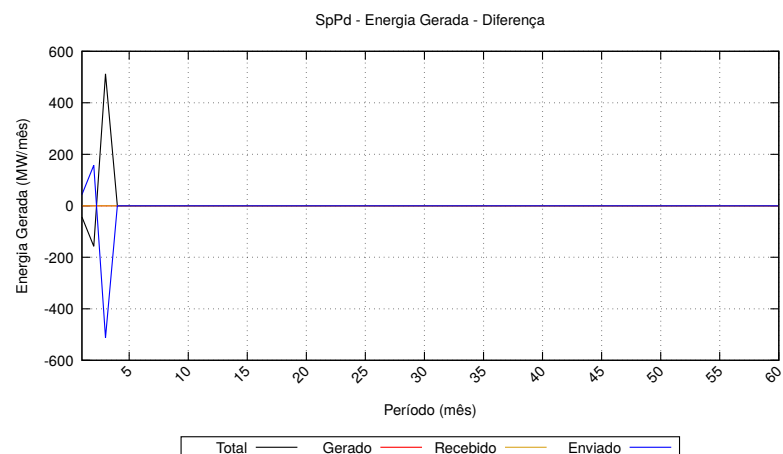
(a) SpPd



(b) SpPd



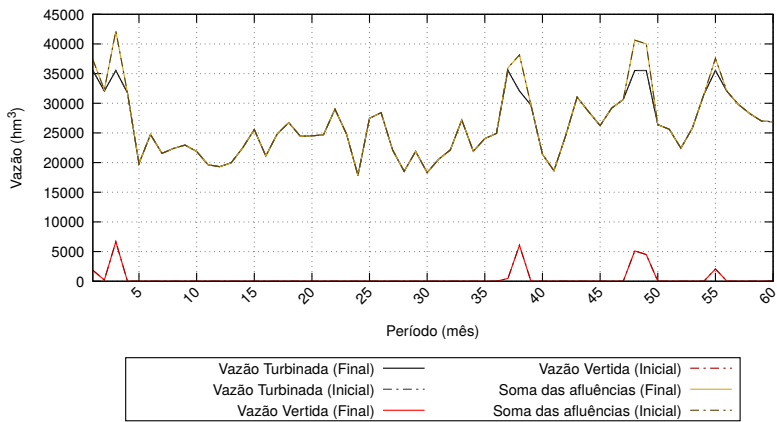
(a) SpPd



(b) SpPd

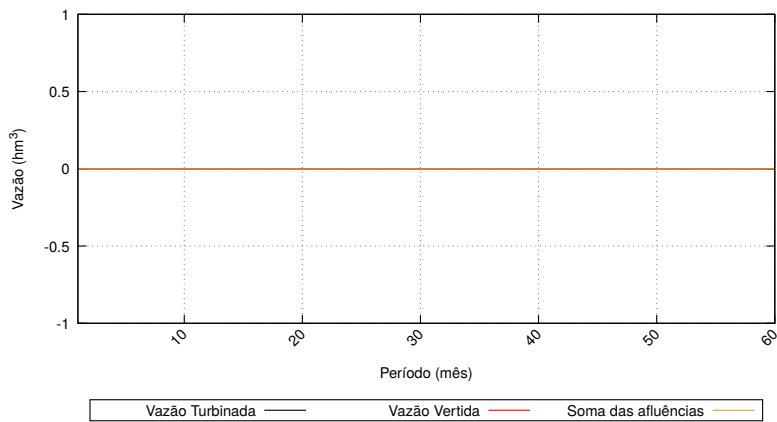
8.9 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



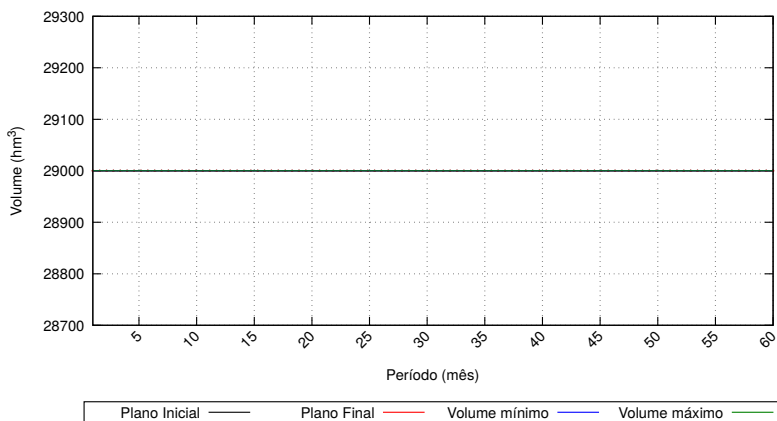
(a) SpPi

SpPi - Vazão - Diferença



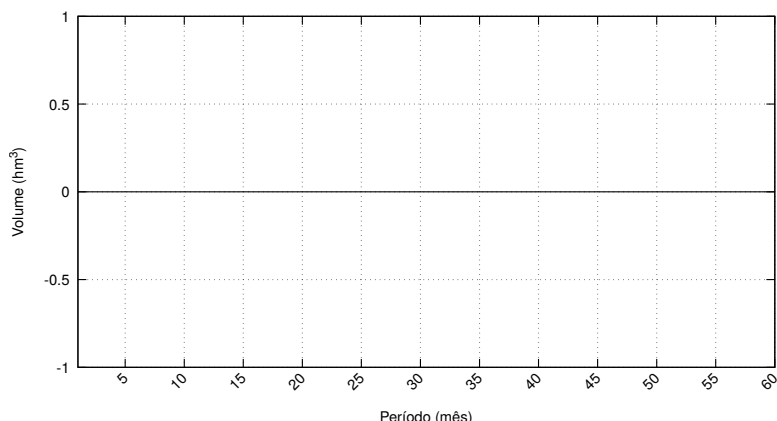
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



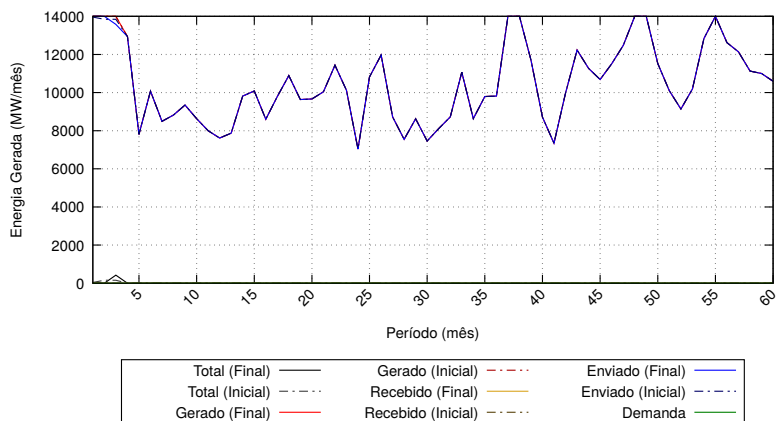
(a) SpPi

SpPi - Volume - Diferença



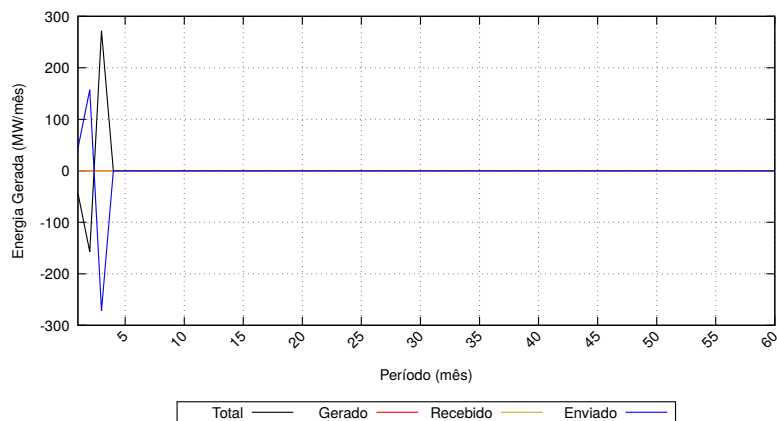
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

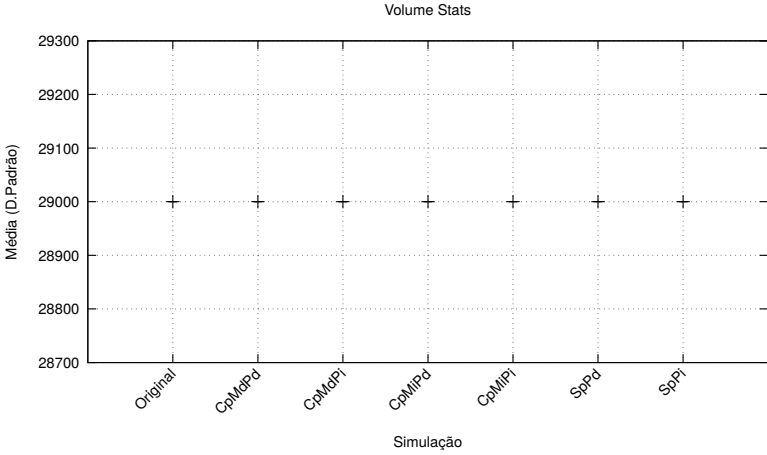


(b) SpPi

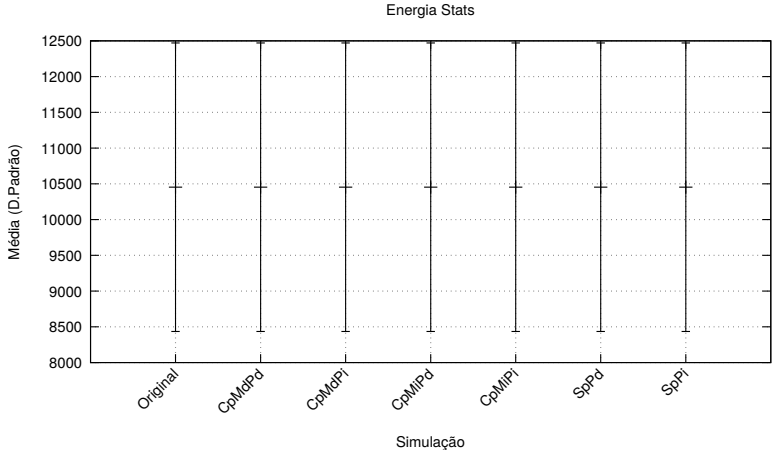
8.10 GPlan Stats

Tabela 13: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	29000.00000	0.00000	10452.81682	2018.09833
CpMdPd	29000.00000	0.00000	10452.81682	2018.09833
CpMdPi	29000.00000	0.00000	10452.81682	2018.09833
CpMiPd	29000.00000	0.00000	10452.81682	2018.09833
CpMiPi	29000.00000	0.00000	10452.81682	2018.09833
SpPd	29000.00000	0.00000	10452.81682	2018.09833
SpPi	29000.00000	0.00000	10452.81682	2018.09833



(a) Volume

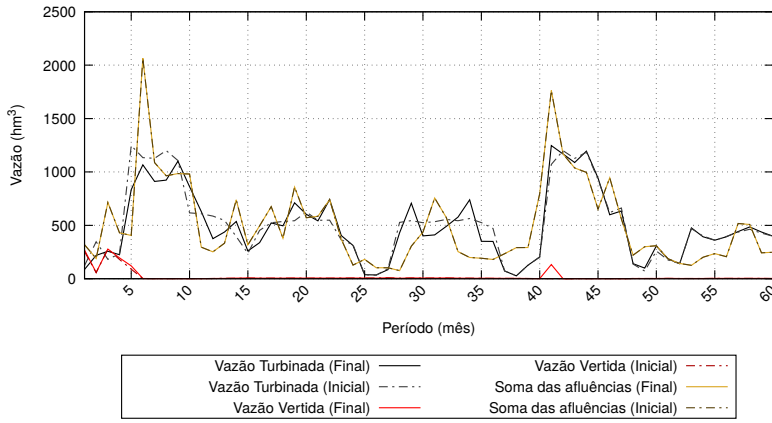


(b) Energia

9 Estação 111

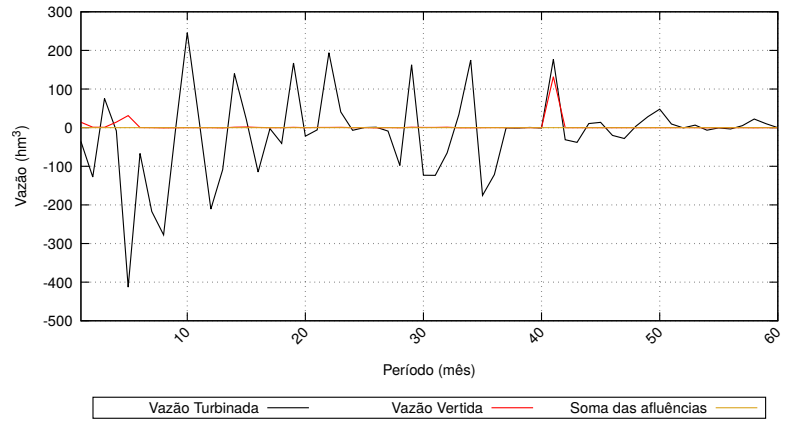
9.1 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



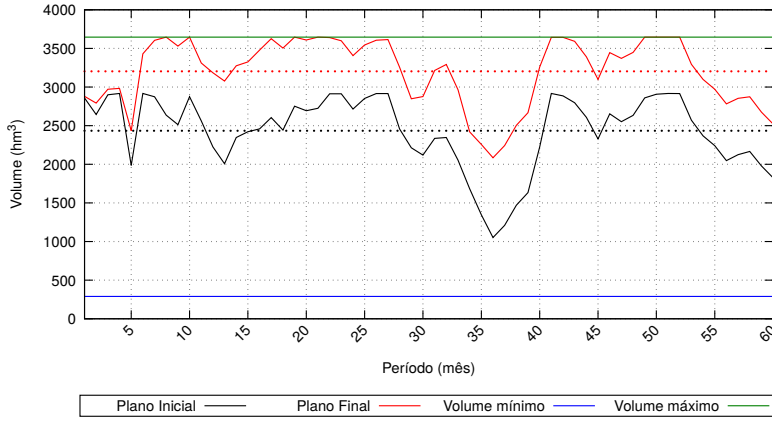
(a) CpMdPd

CpMdPd - Vazão - Diferença



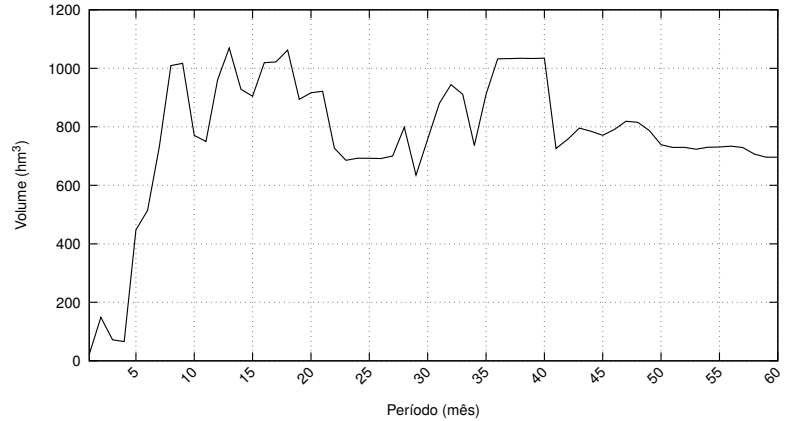
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



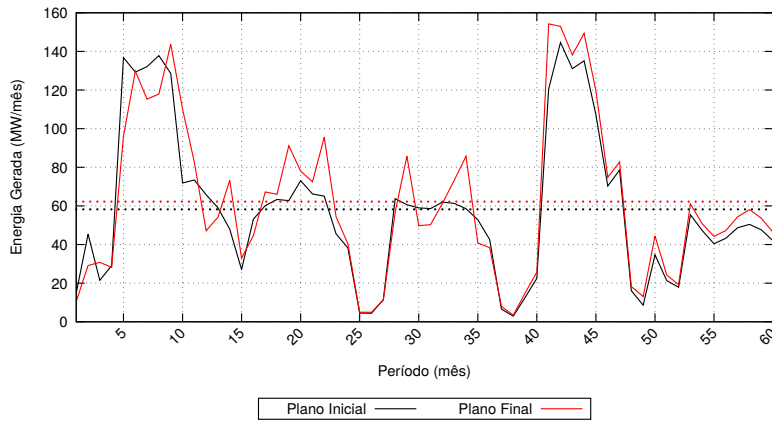
(a) CpMdPd

CpMdPd - Volume - Diferença



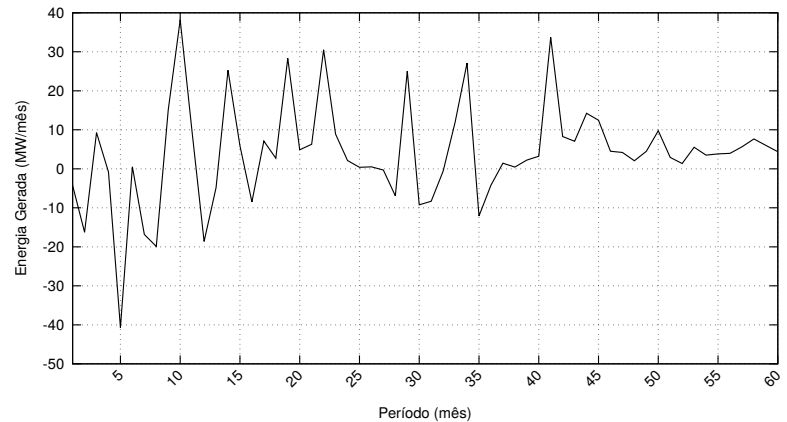
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

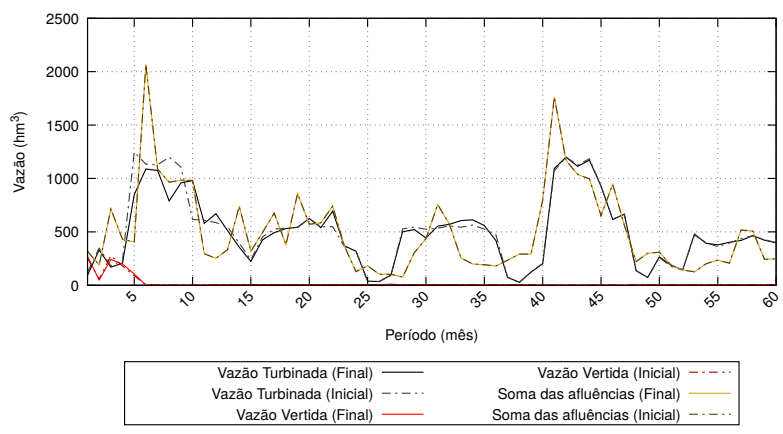
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

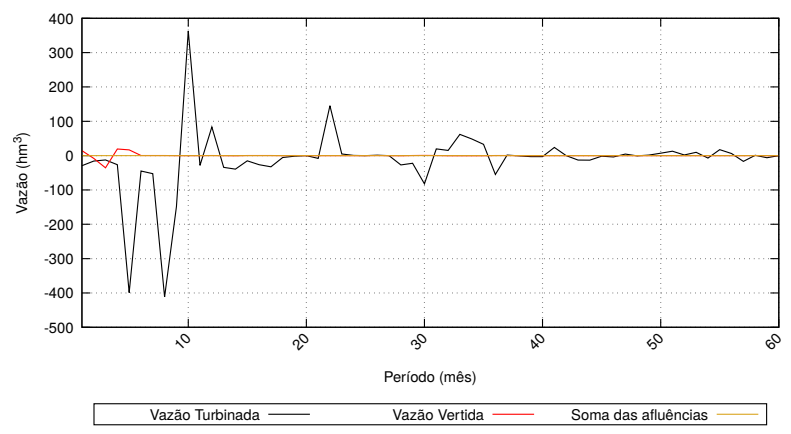
9.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



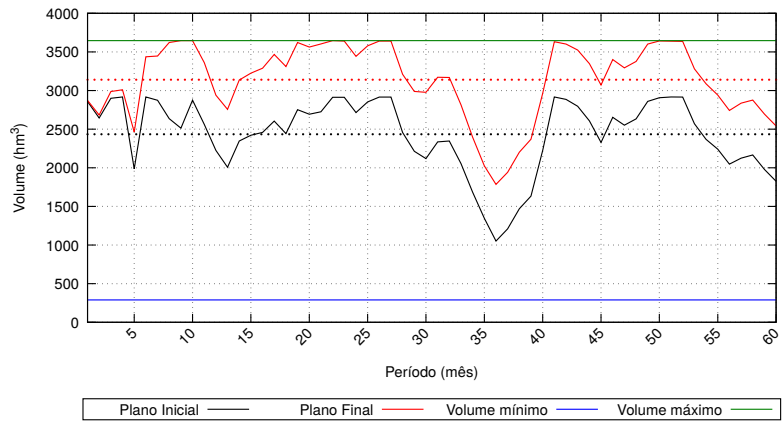
(a) CpMdPi

CpMdPi - Vazão - Diferença



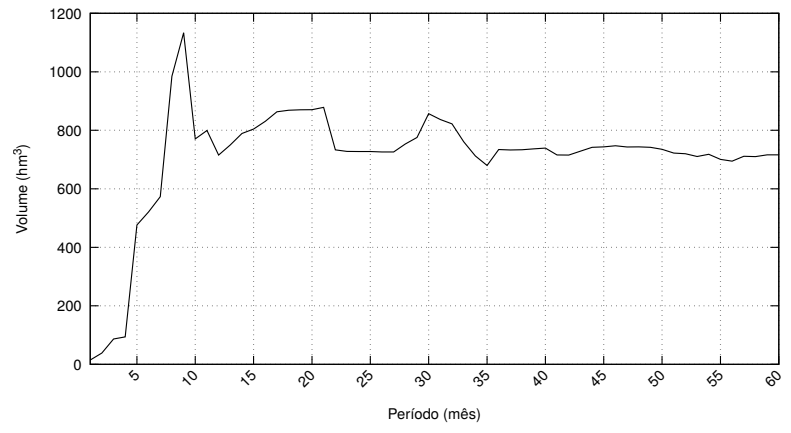
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



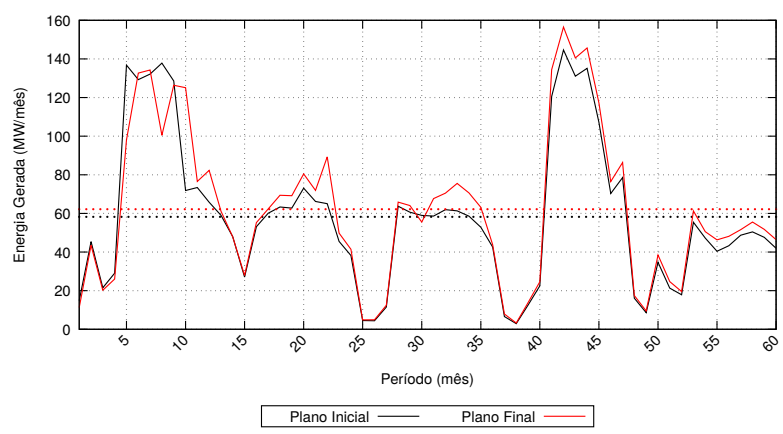
(a) CpMdPi

CpMdPi - Volume - Diferença



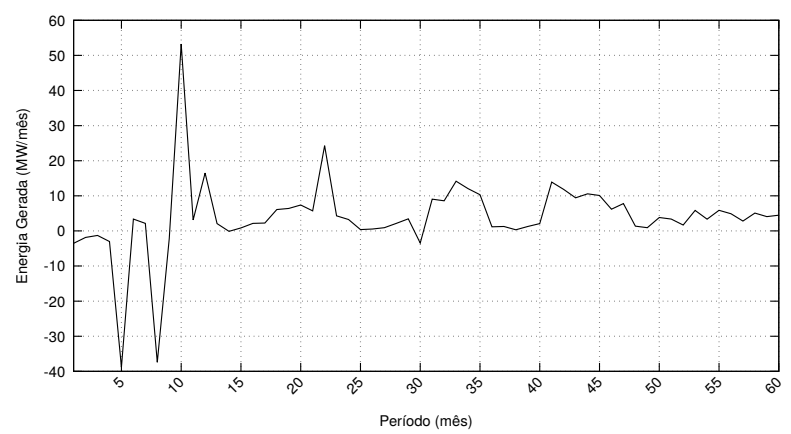
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



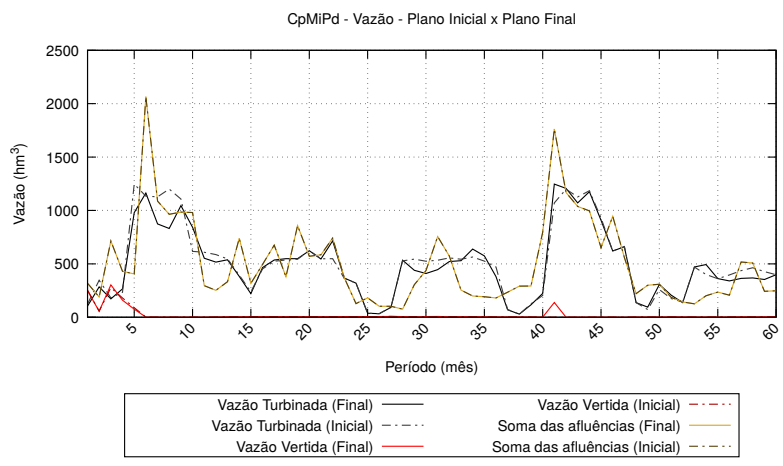
(a) CpMdPi

CpMdPi - Energia Gerada - Diferença

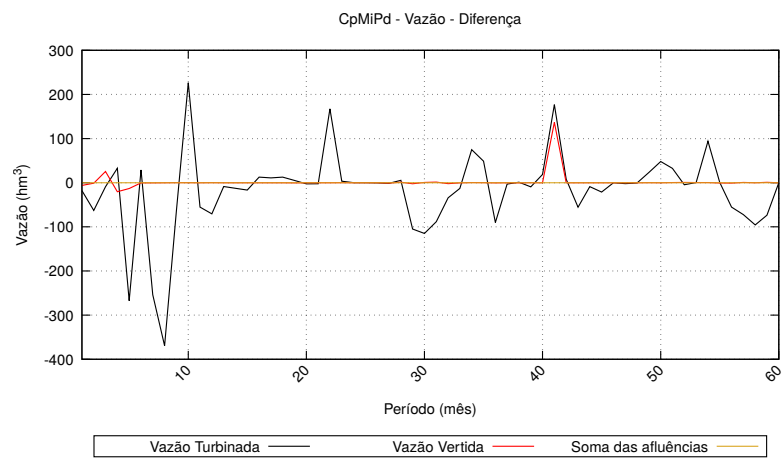


(b) CpMdPi

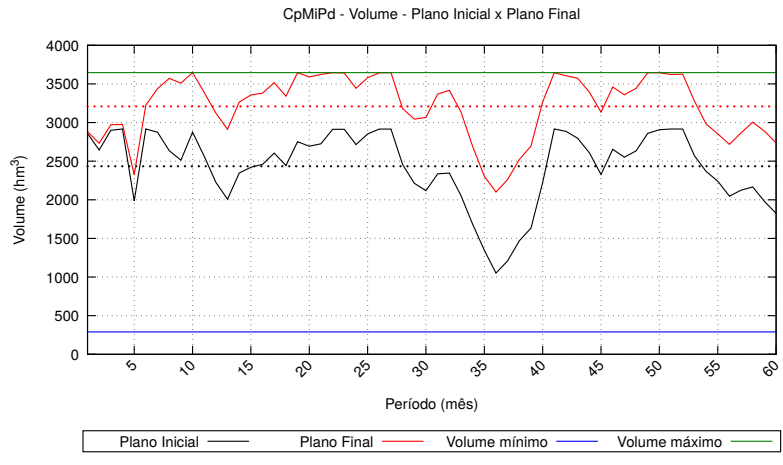
9.3 Resultados - CpMiPd



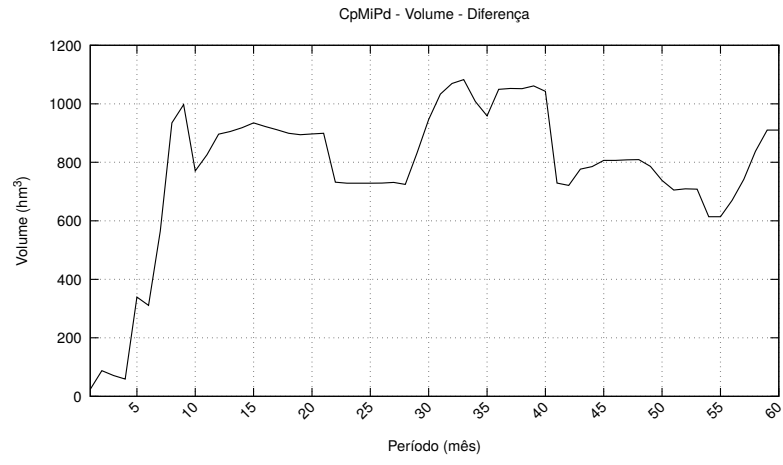
(a) CpMiPd



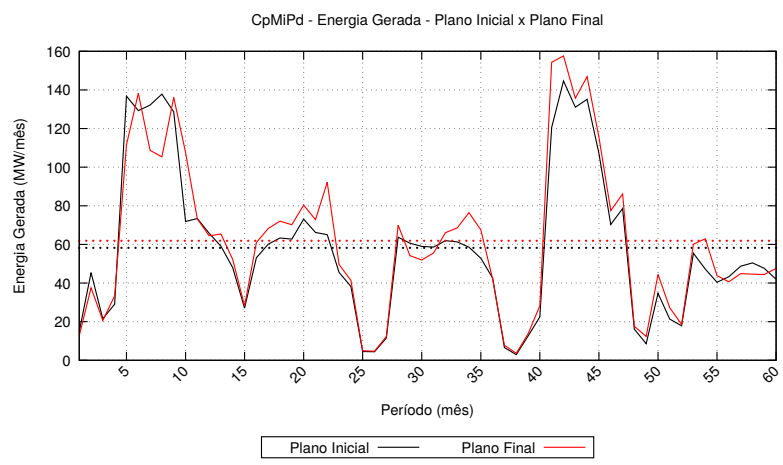
(b) CpMiPd



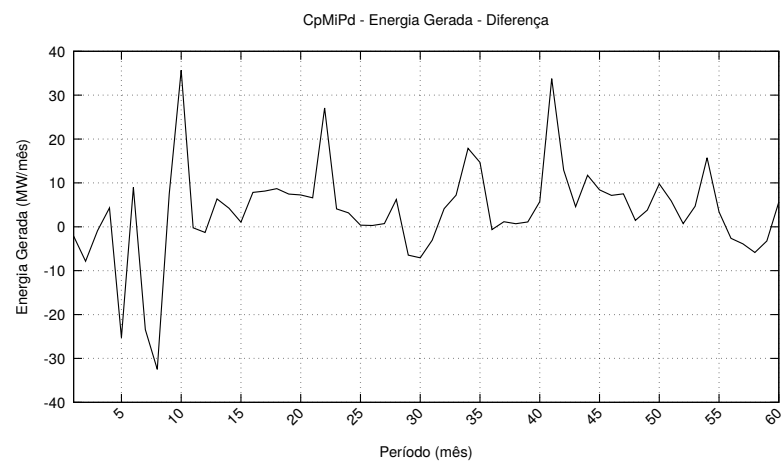
(a) CpMiPd



(b) CpMiPd



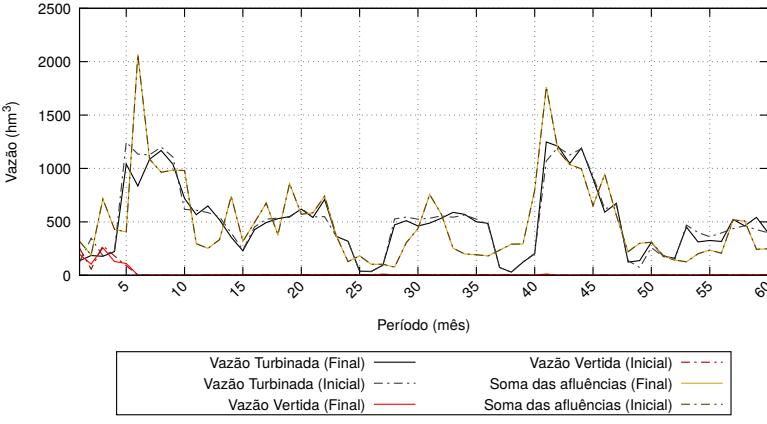
(a) CpMiPd



(b) CpMiPd

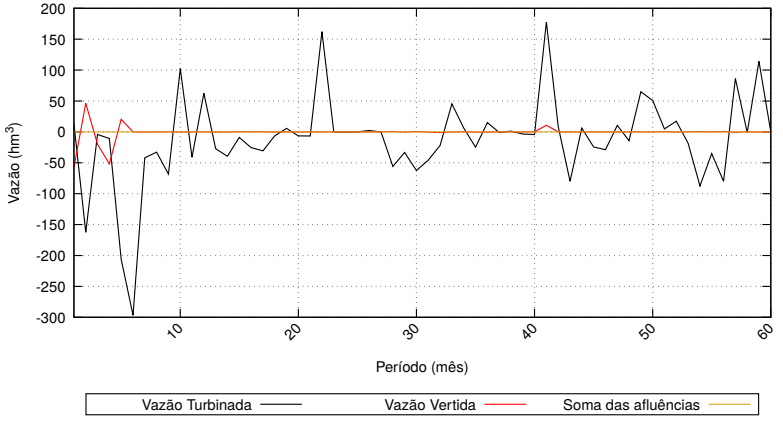
9.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



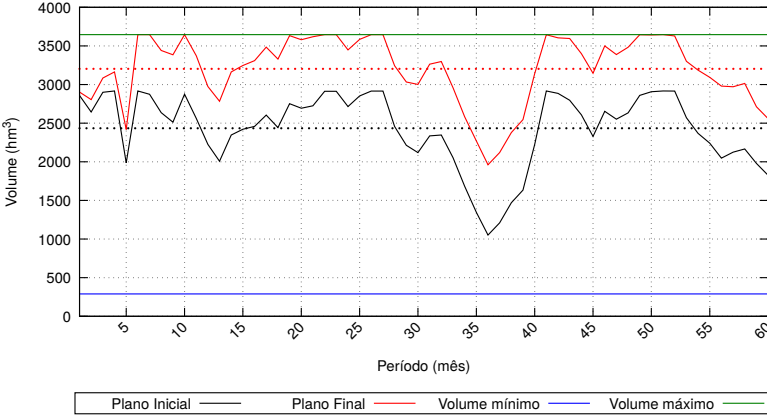
(a) CpMiPi

CpMiPi - Vazão - Diferença



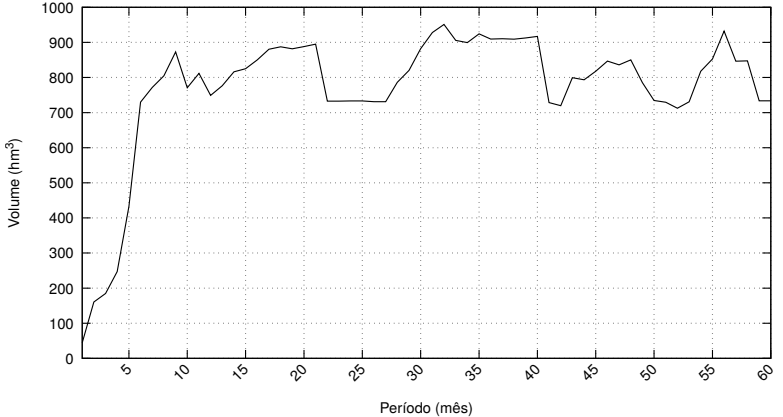
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



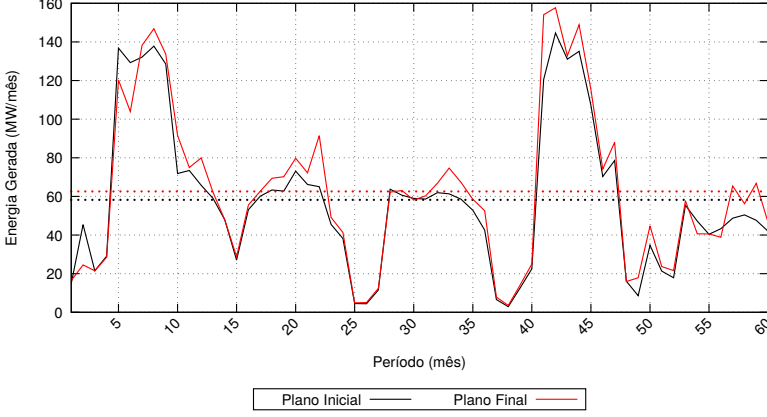
(a) CpMiPi

CpMiPi - Volume - Diferença



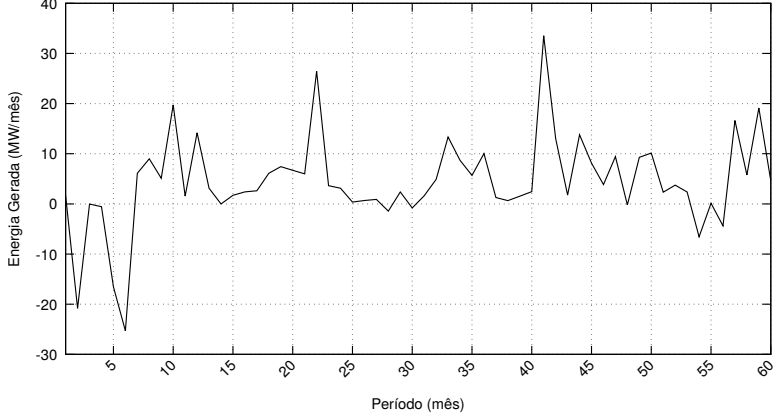
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

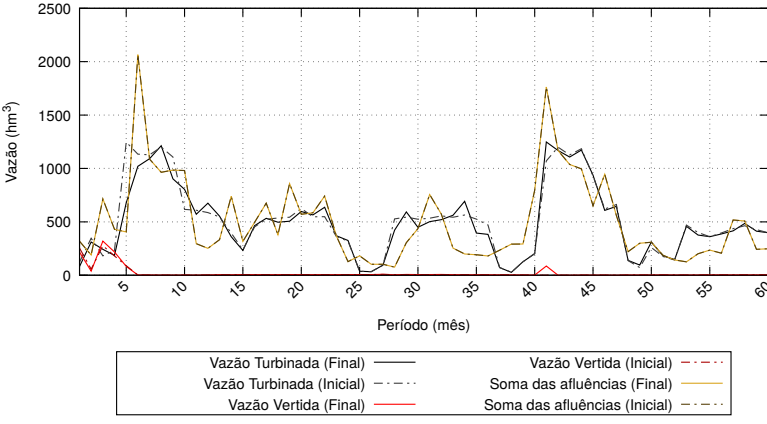
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

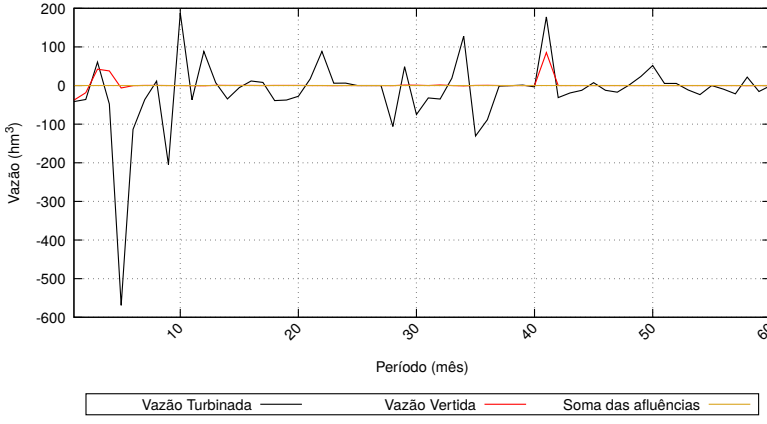
9.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



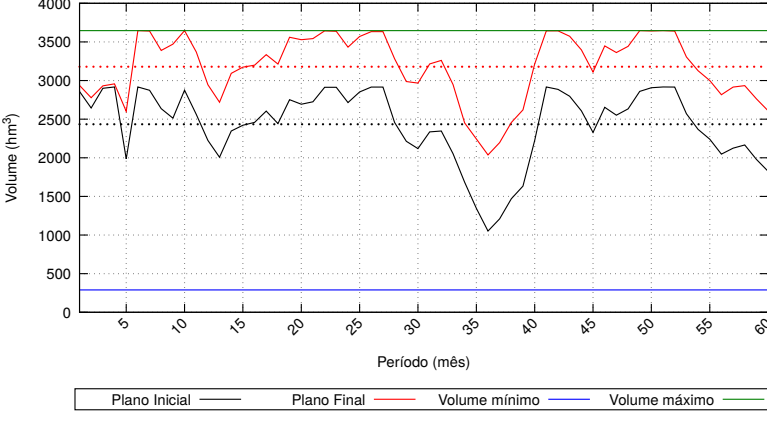
(a) SpPd

SpPd - Vazão - Diferença



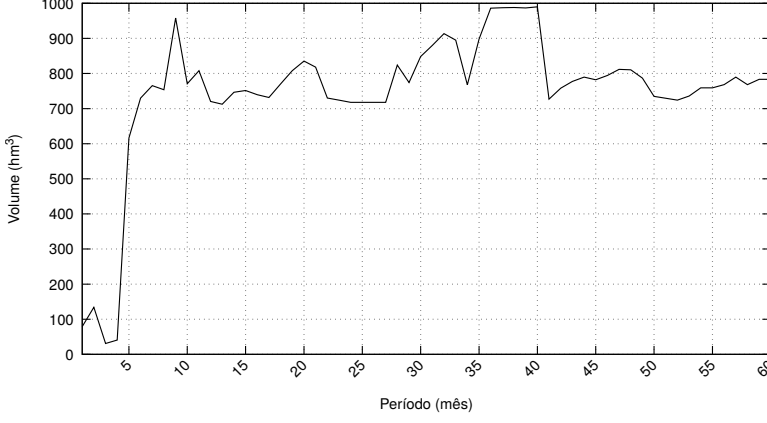
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



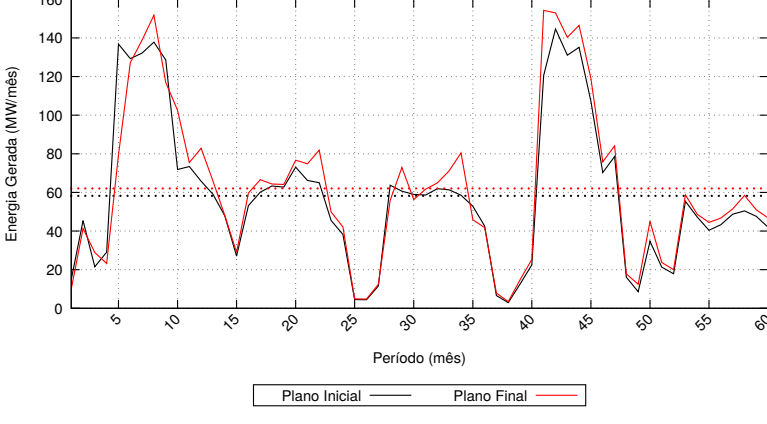
(a) SpPd

SpPd - Volume - Diferença



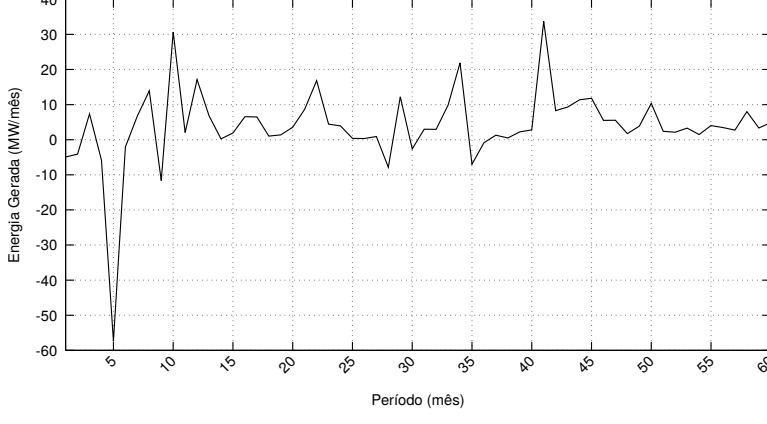
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

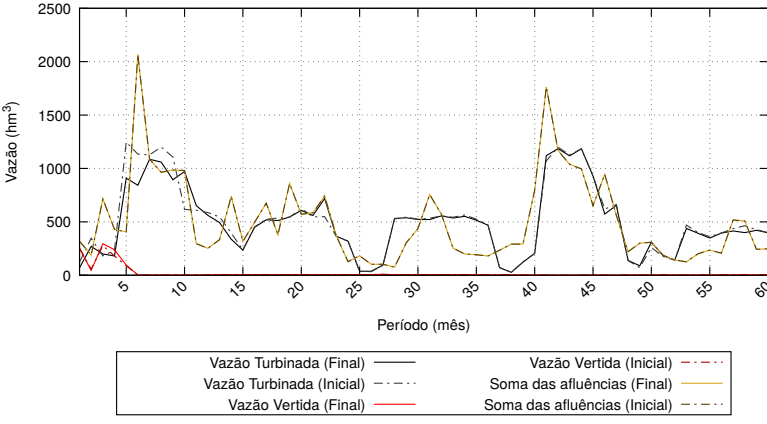
SpPd - Energia Gerada - Diferença



(b) SpPd

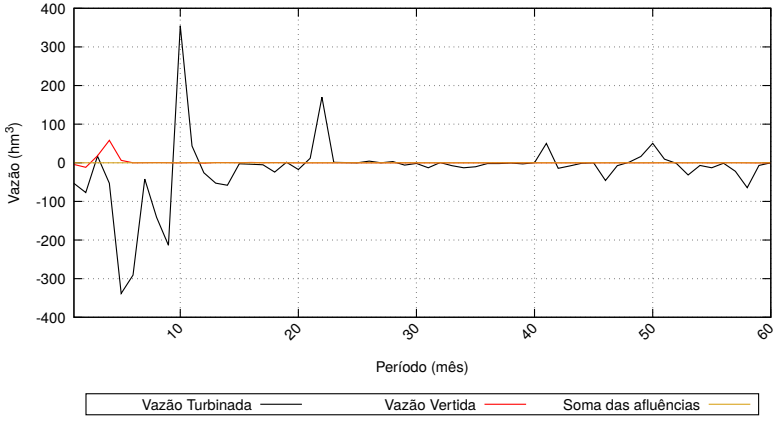
9.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



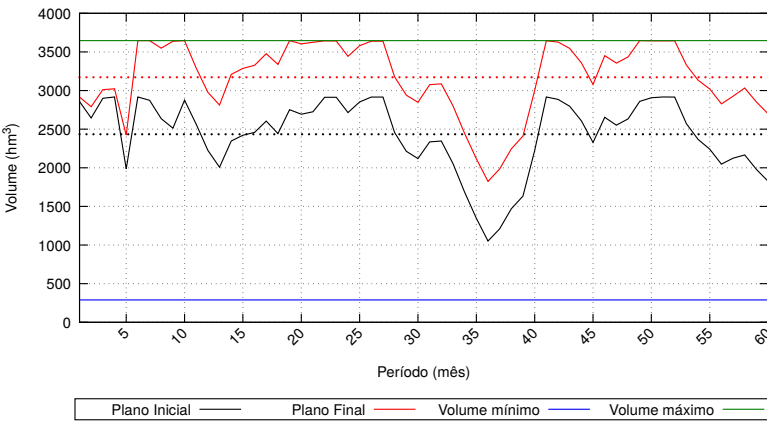
(a) SpPi

SpPi - Vazão - Diferença



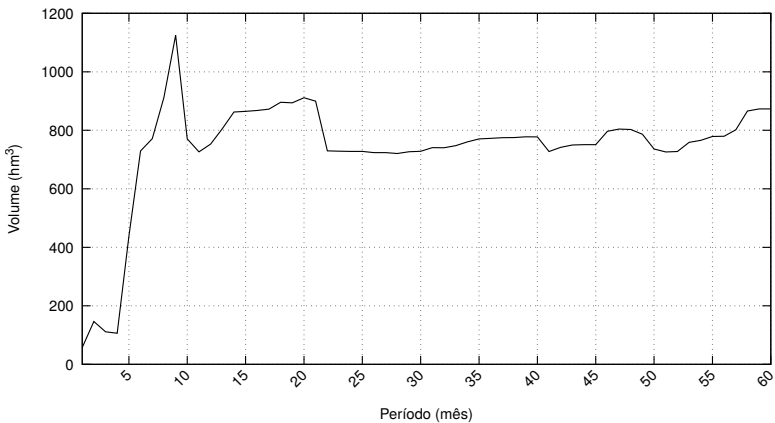
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



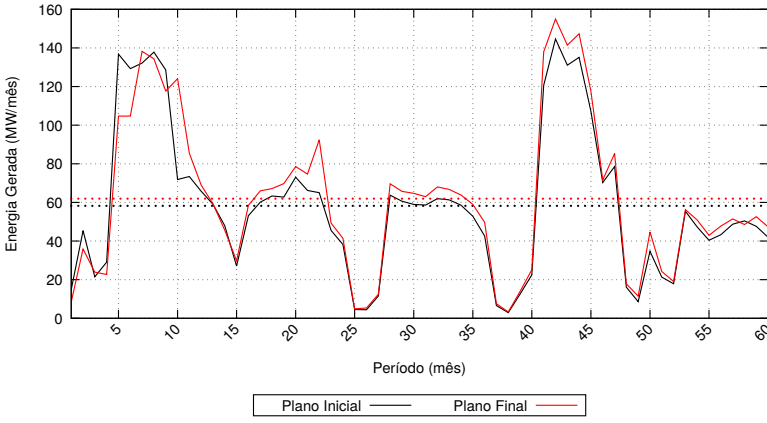
(a) SpPi

SpPi - Volume - Diferença



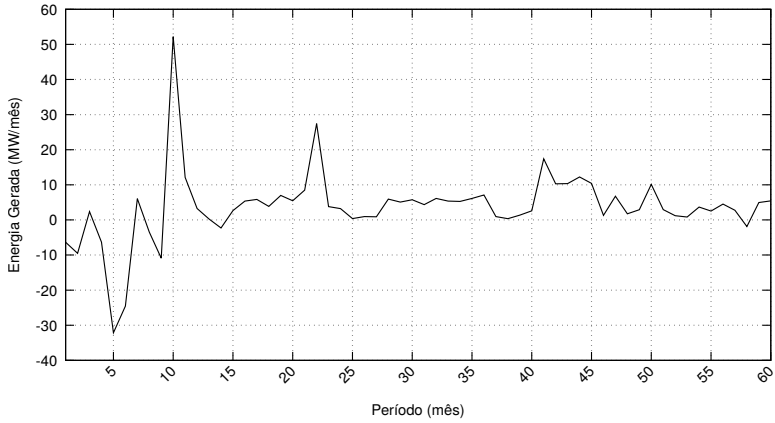
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

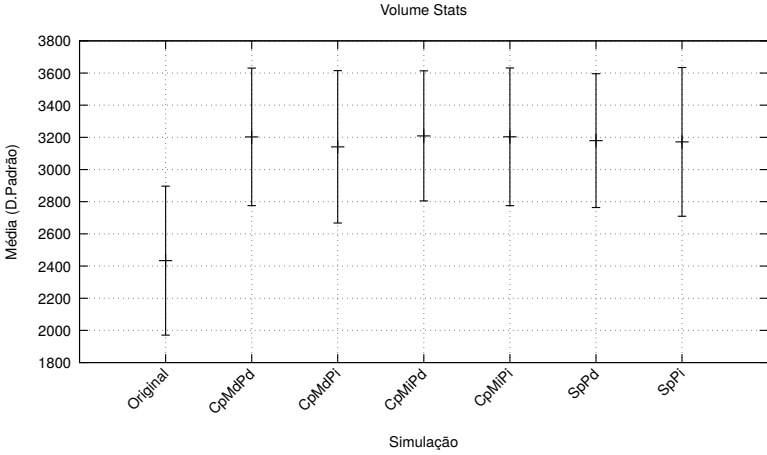
SpPi - Energia Gerada - Diferença



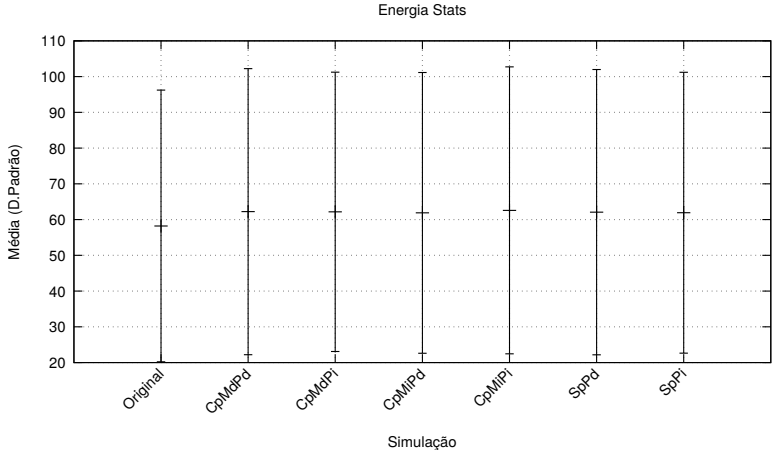
(b) SpPi

Tabela 14: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	2433.58314	463.14703	58.21695	38.00024
CpMdPd	3203.09158	427.62713	62.21426	40.01446
CpMdPi	3141.06339	473.56081	62.16062	39.06297
CpMiPd	3209.26244	404.41417	61.88111	39.27085
CpMiPi	3203.26069	427.86823	62.58433	40.13806
SpPd	3179.58611	415.92475	62.06917	39.90413
SpPi	3171.81255	462.52504	61.92862	39.28515

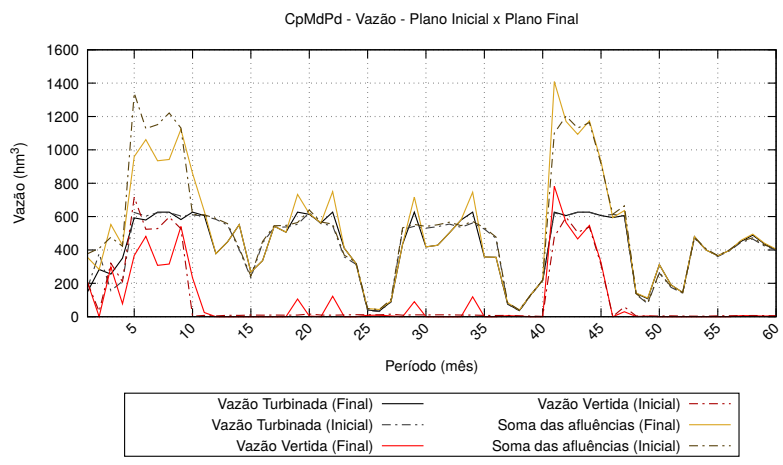


(a) Volume

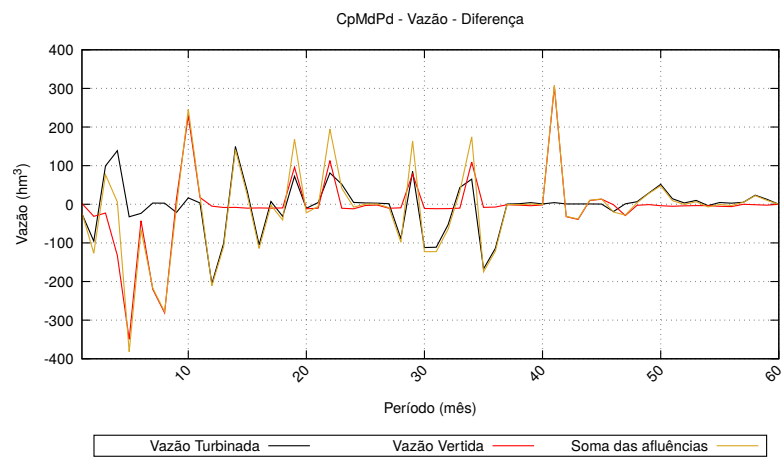


(b) Energia

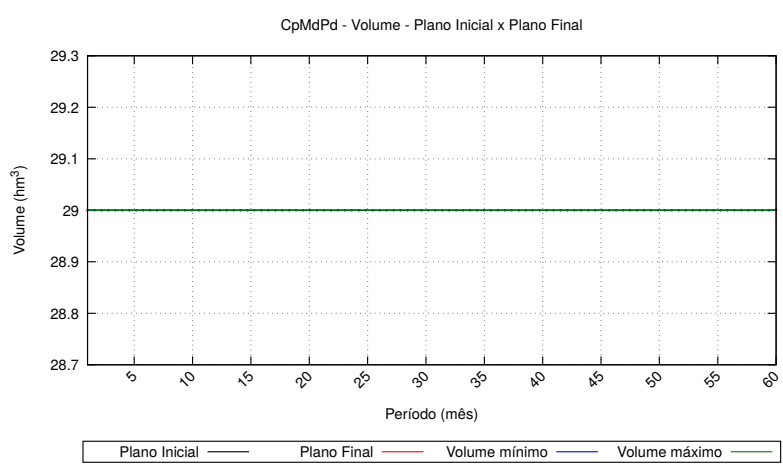
10.1 Resultados - CpMdPd



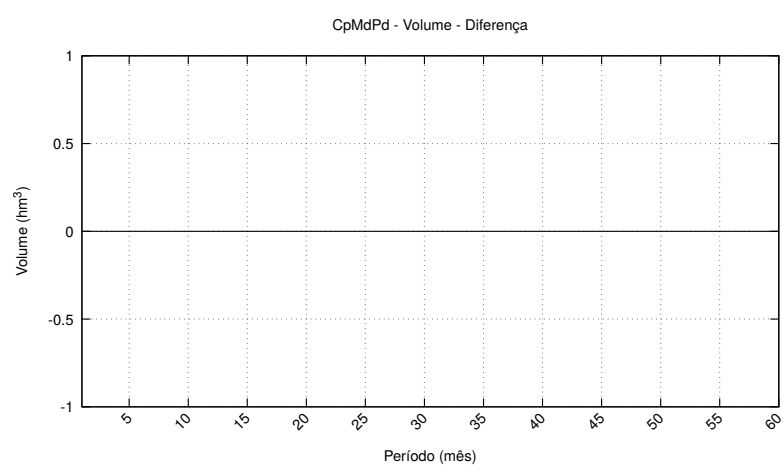
(a) CpMdPd



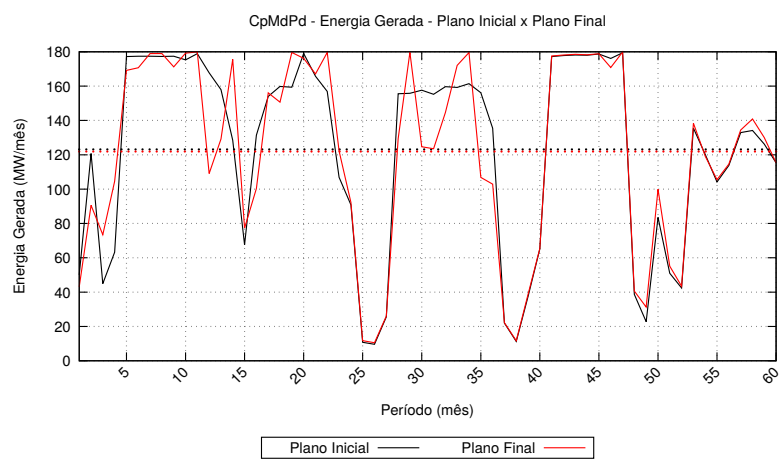
(b) CpMdPd



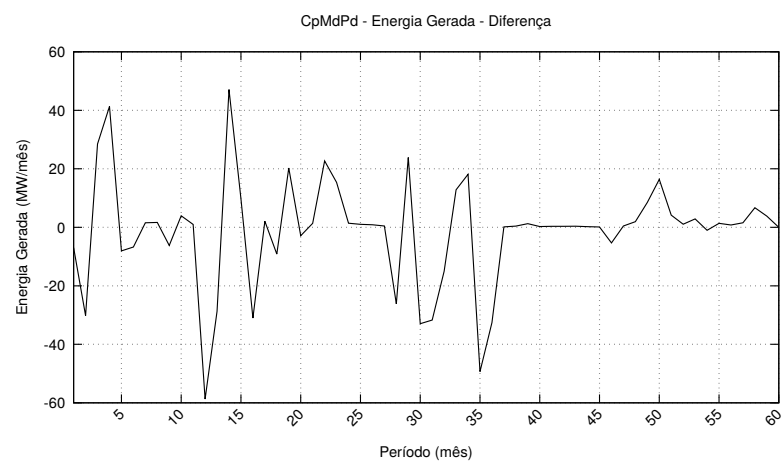
(a) CpMdPd



(b) CpMdPd



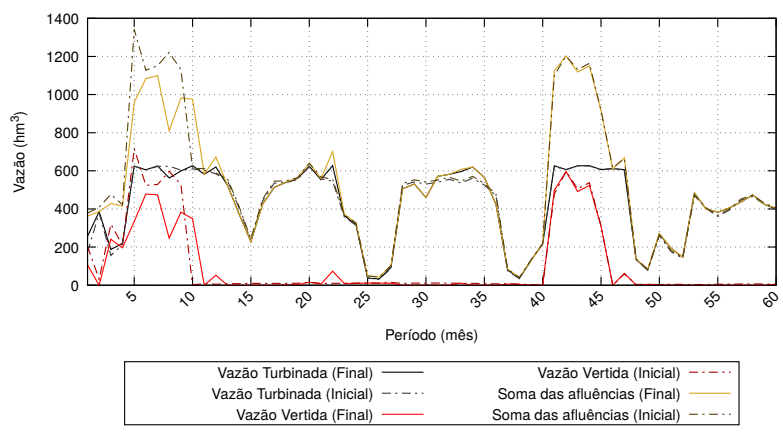
(a) CpMdPd



(b) CpMdPd

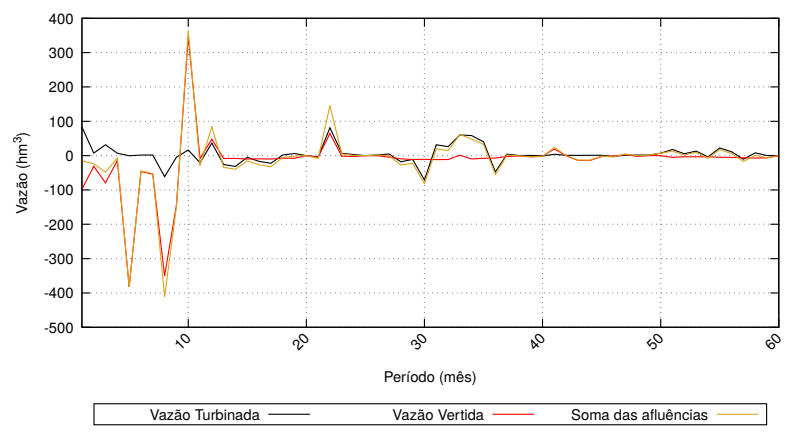
10.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



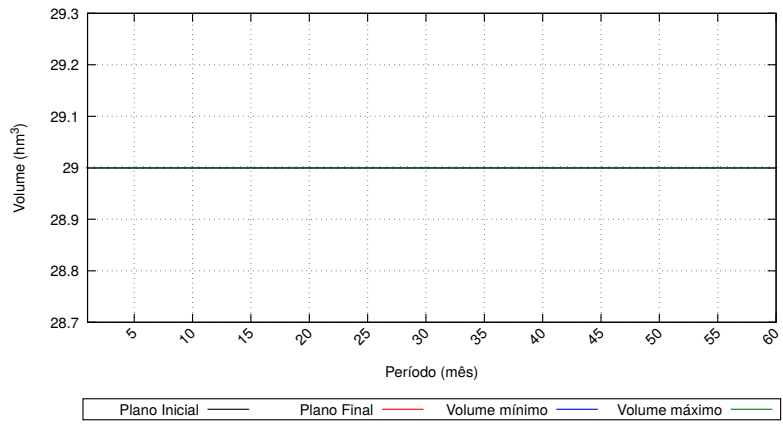
(a) CpMdPi

CpMdPi - Vazão - Diferença



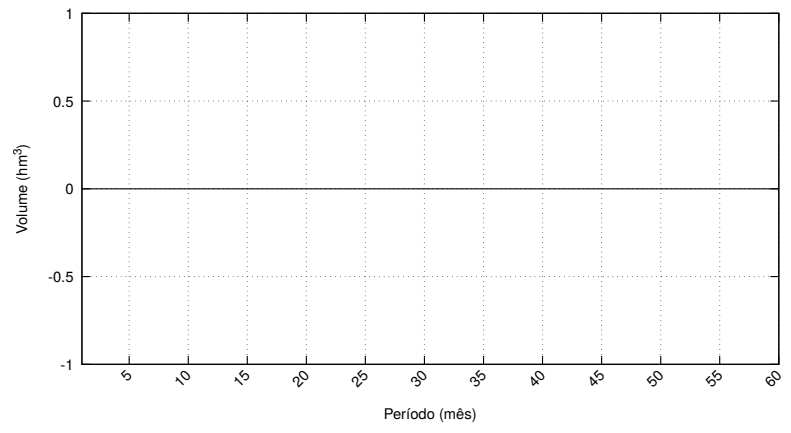
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



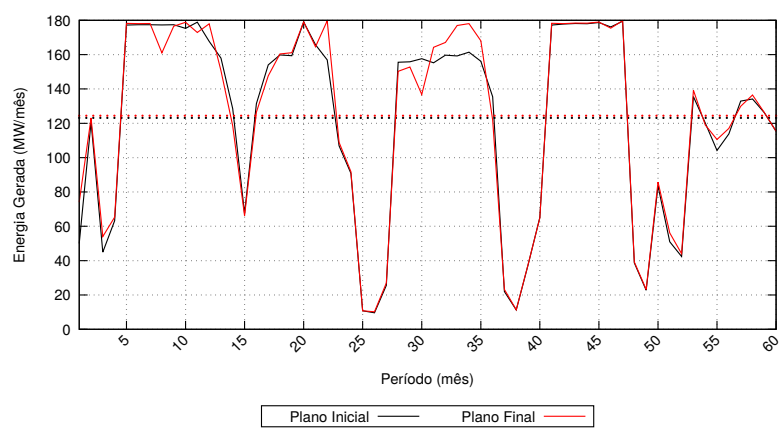
(a) CpMdPi

CpMdPi - Volume - Diferença



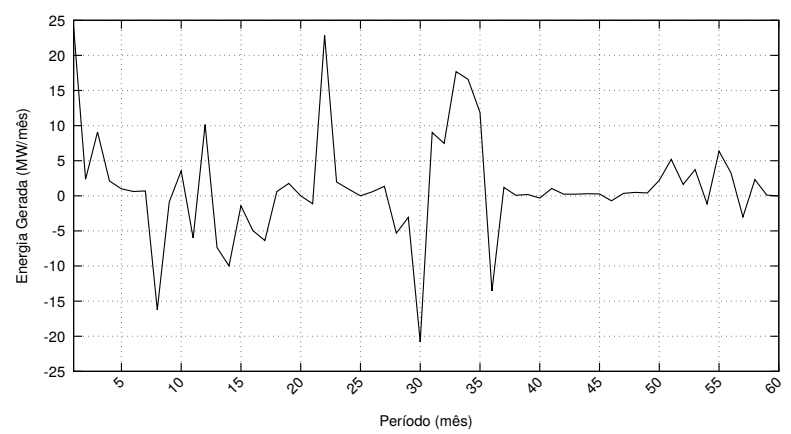
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

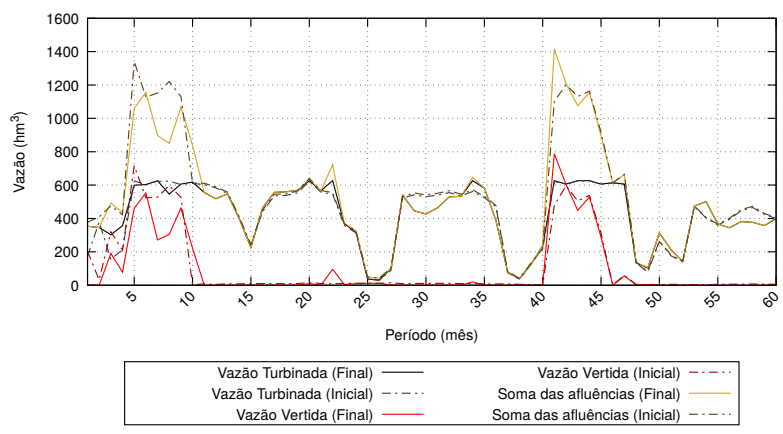
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

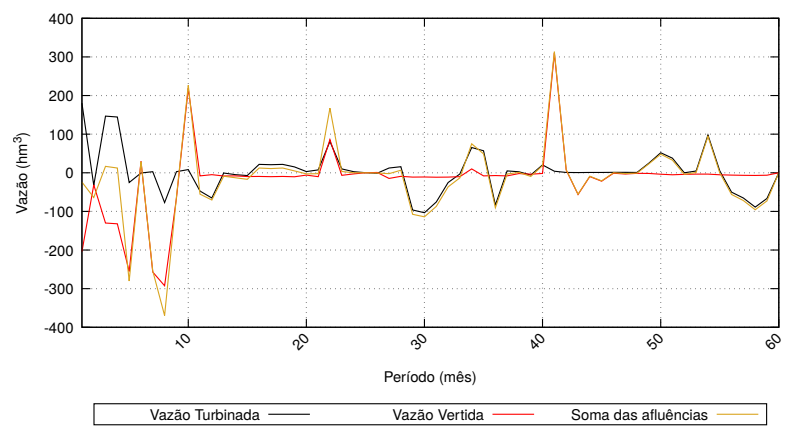
10.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



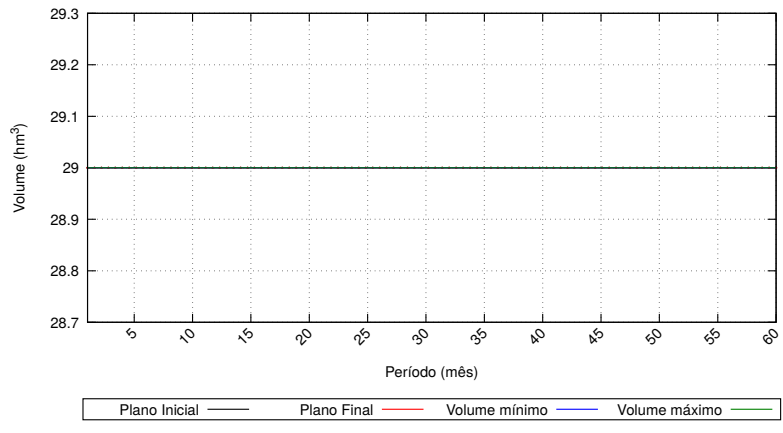
(a) CpMiPd

CpMiPd - Vazão - Diferença



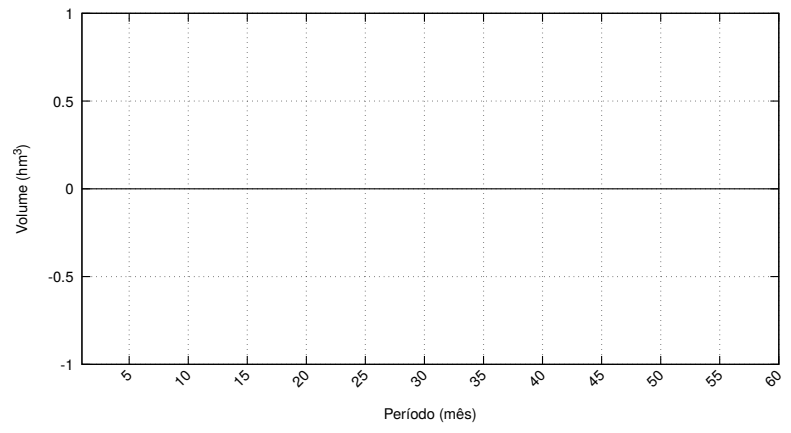
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



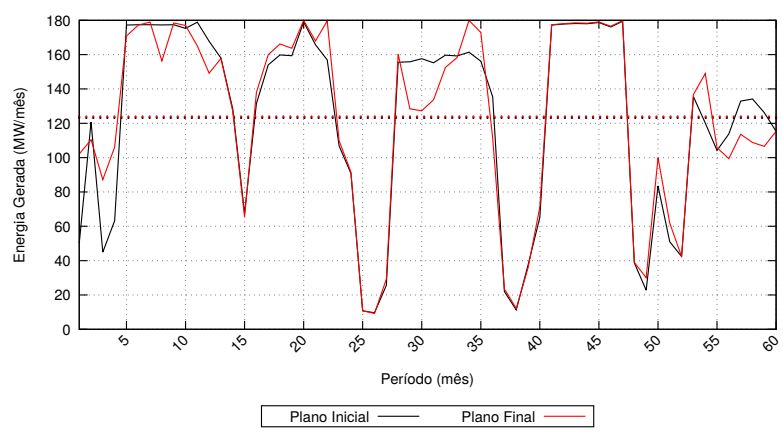
(a) CpMiPd

CpMiPd - Volume - Diferença



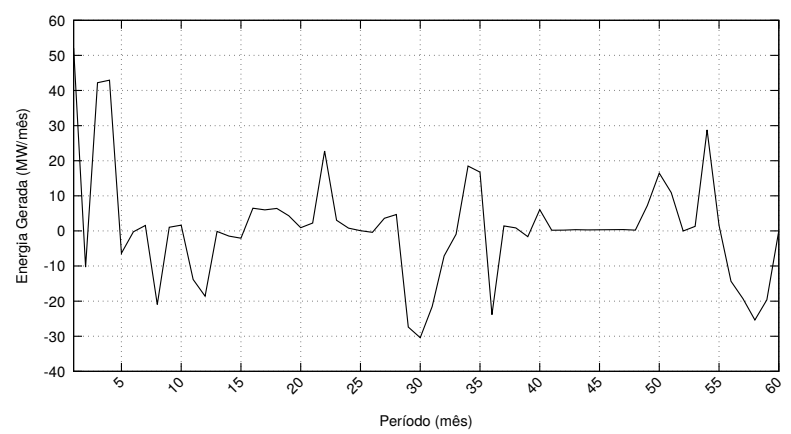
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

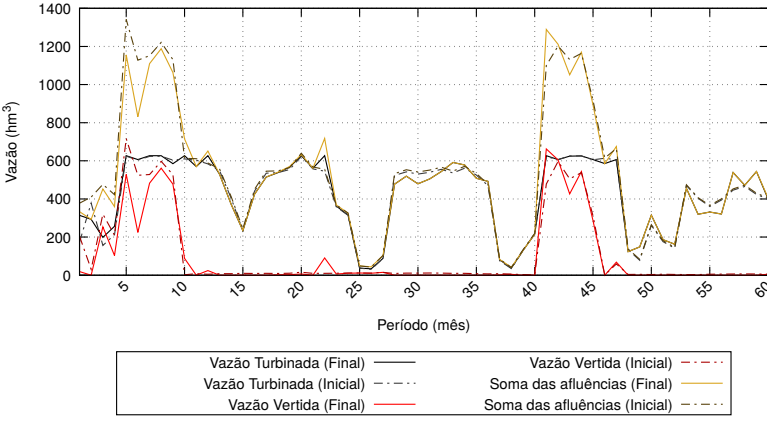
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

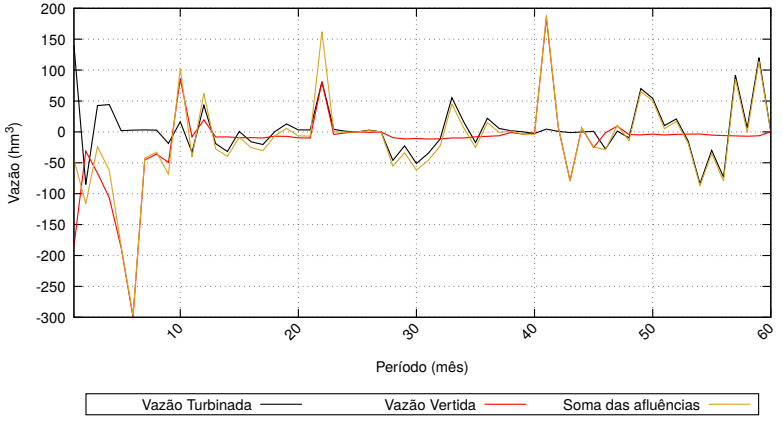
10.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



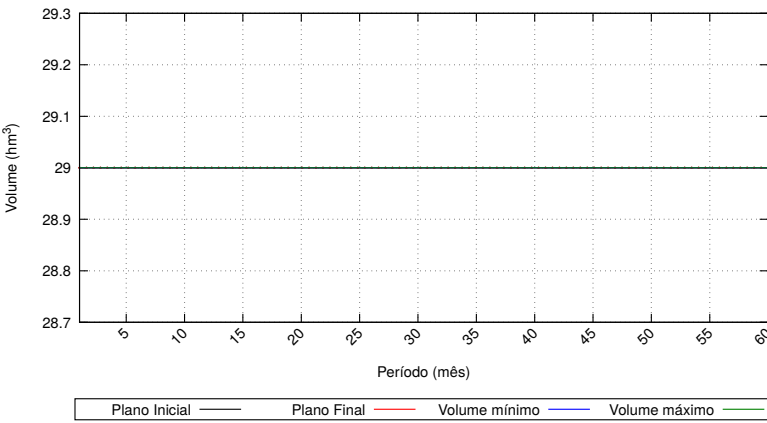
(a) CpMiPi

CpMiPi - Vazão - Diferença



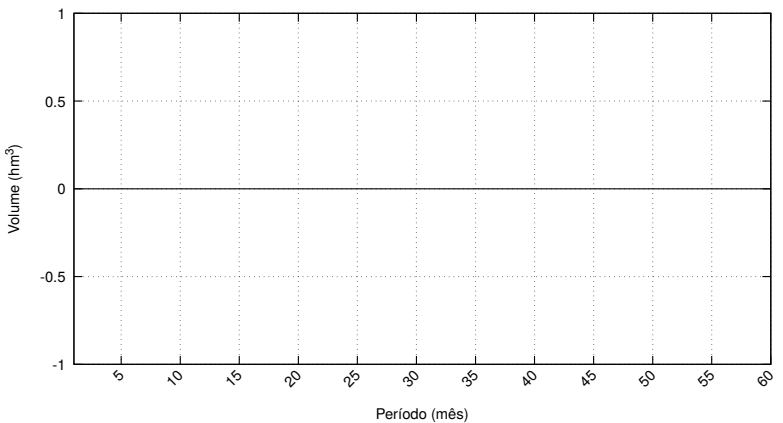
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



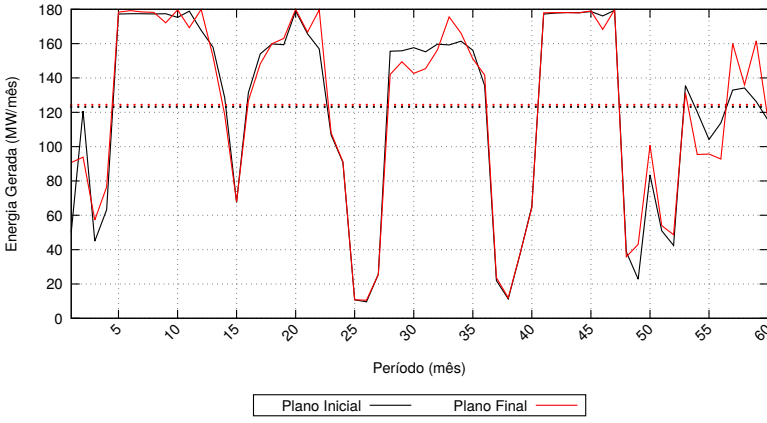
(a) CpMiPi

CpMiPi - Volume - Diferença



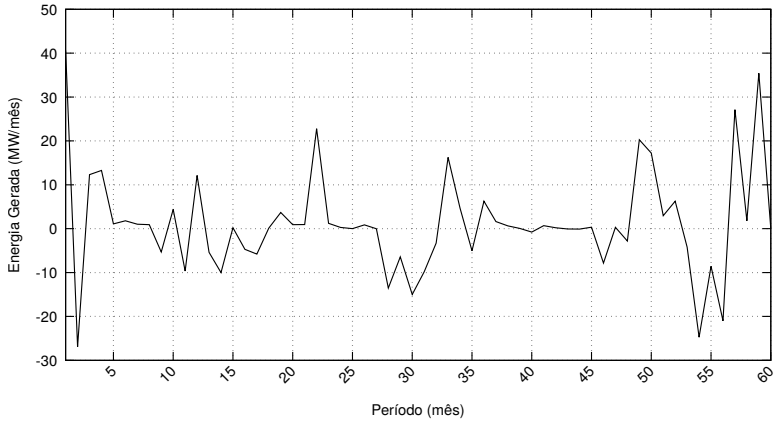
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

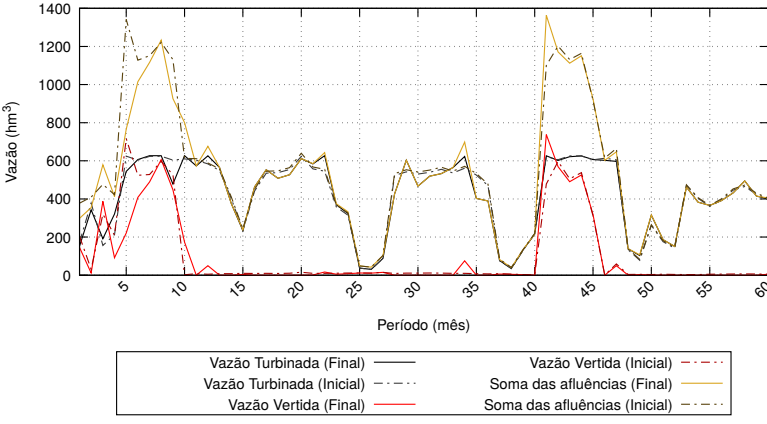
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

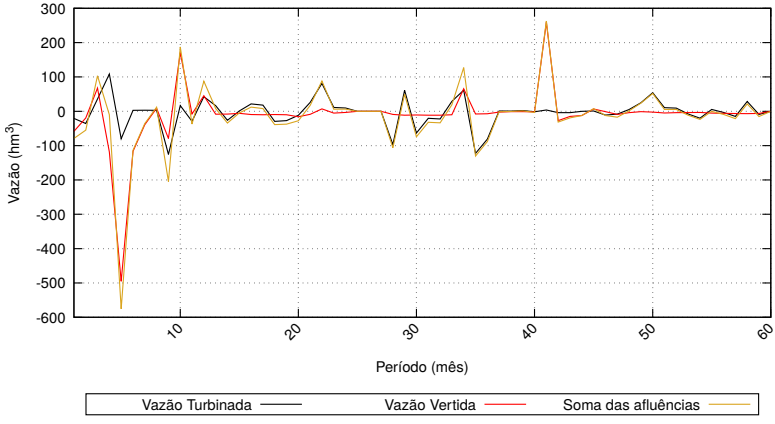
10.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



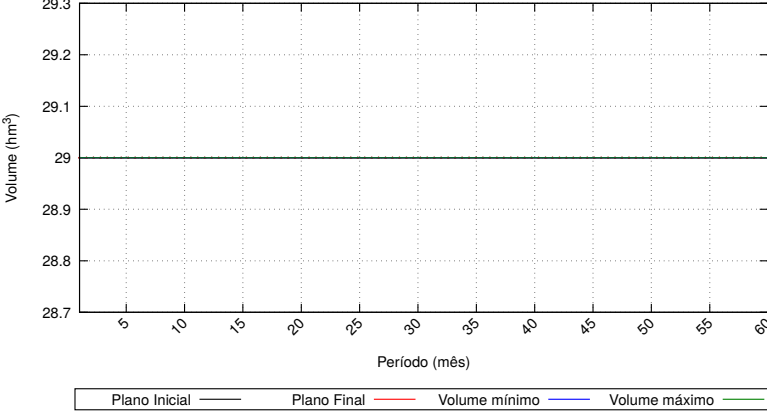
(a) SpPd

SpPd - Vazão - Diferença



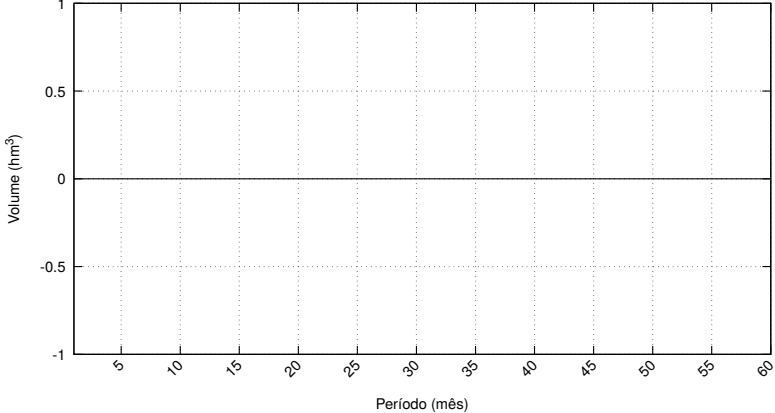
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



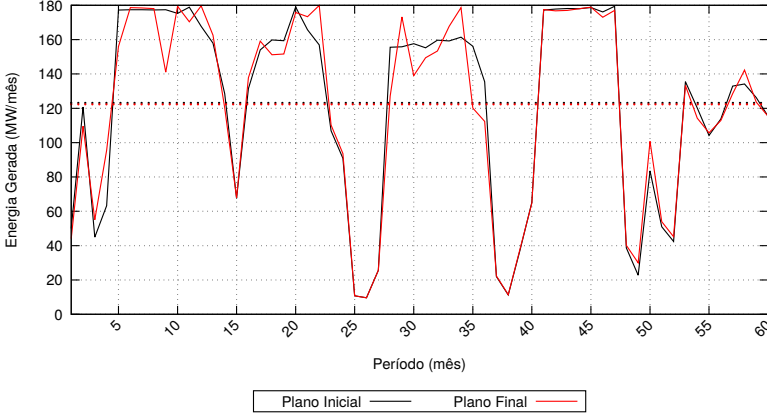
(a) SpPd

SpPd - Volume - Diferença



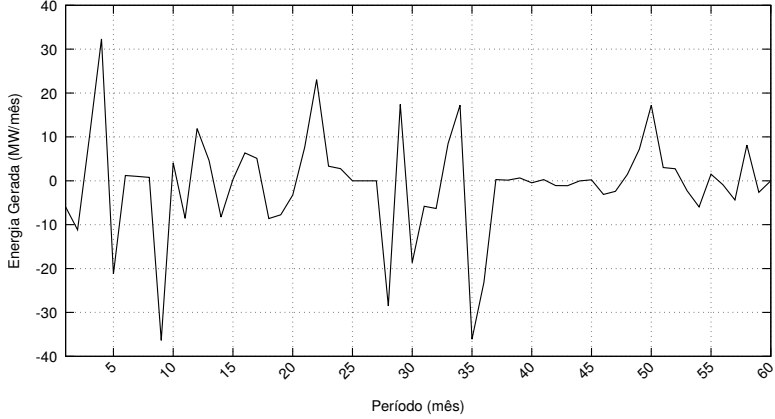
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

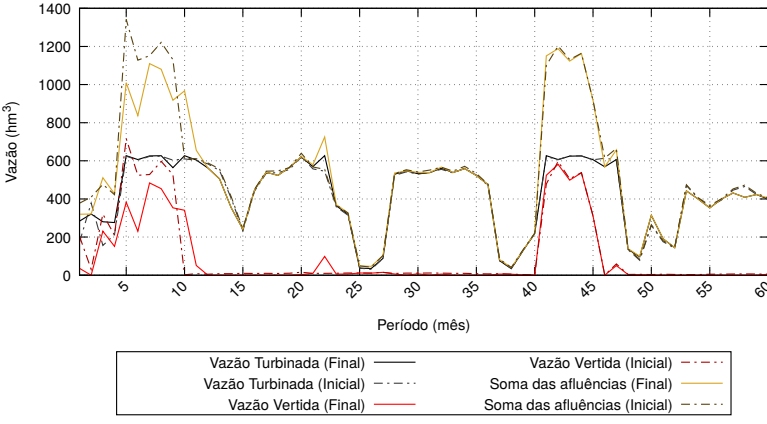
SpPd - Energia Gerada - Diferença



(b) SpPd

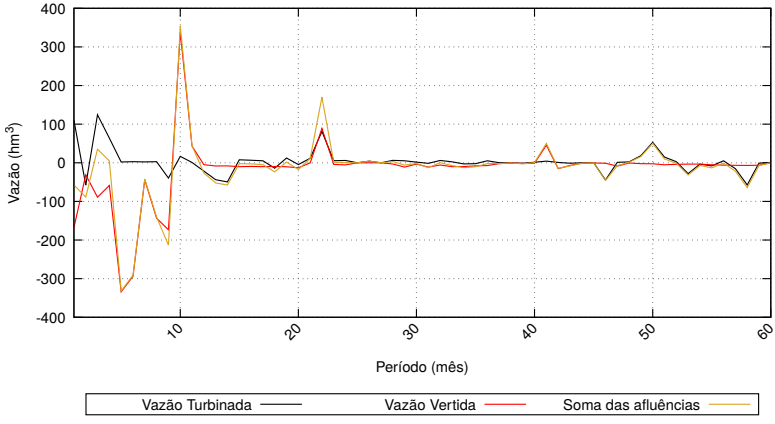
10.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



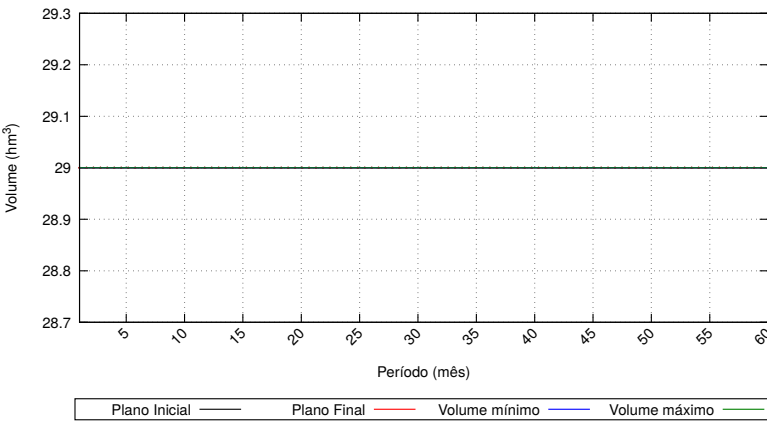
(a) SpPi

SpPi - Vazão - Diferença



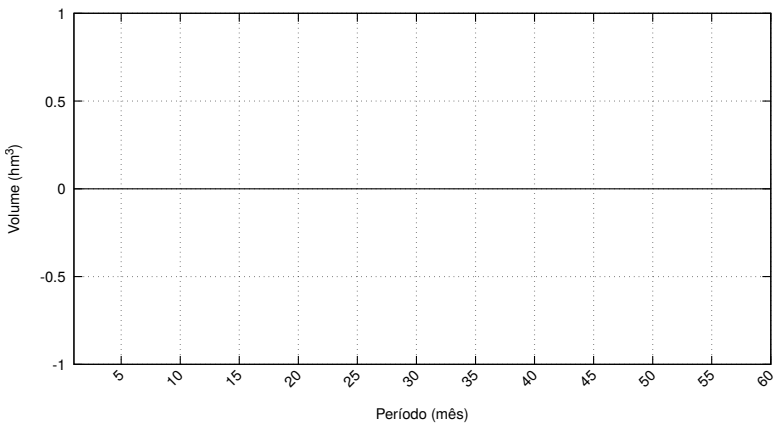
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



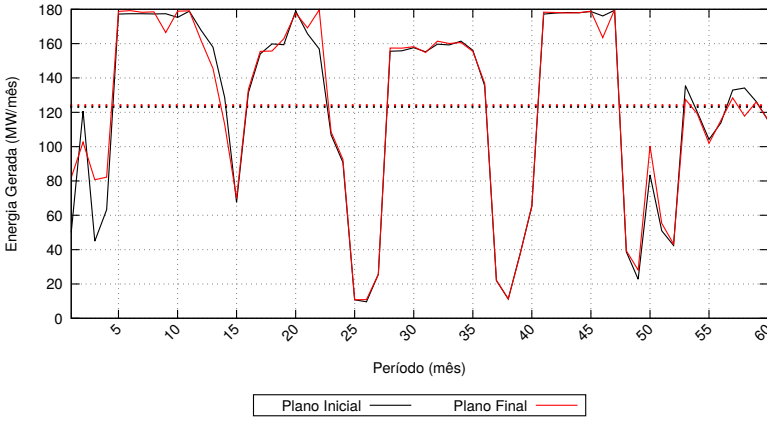
(a) SpPi

SpPi - Volume - Diferença



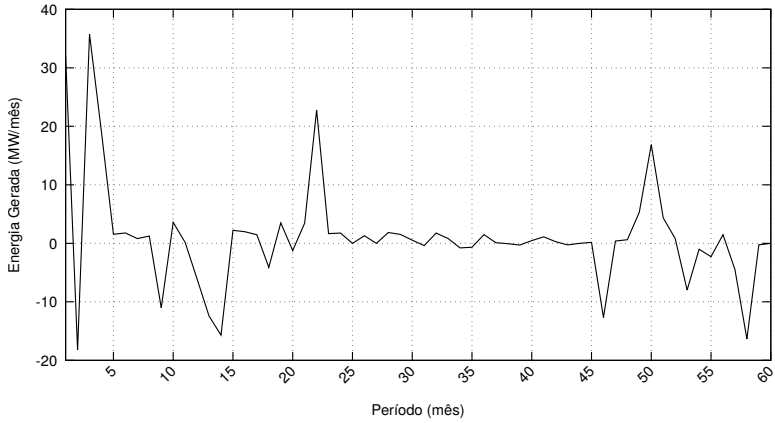
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

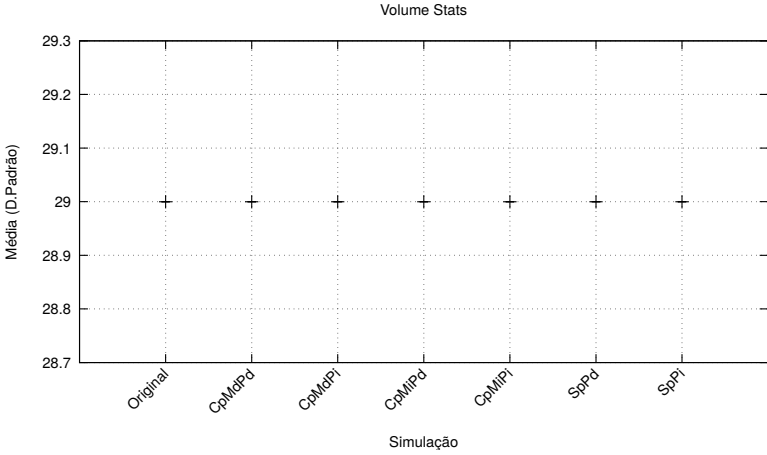


(b) SpPi

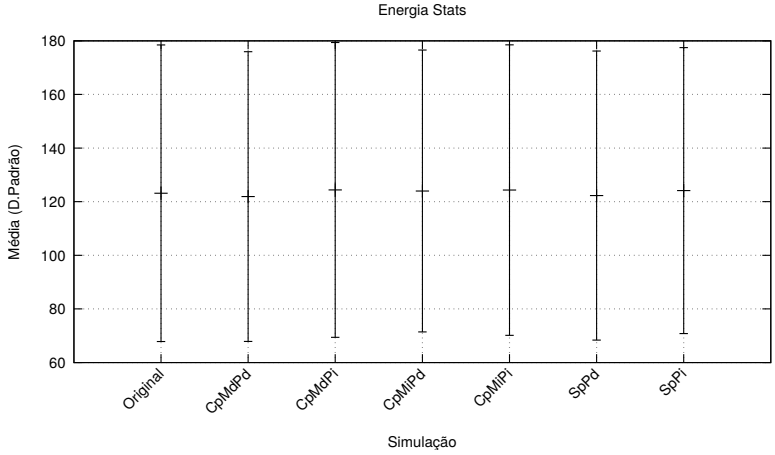
10.7 GPlan Stats

Tabela 15: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	29.00000	0.00000	123.16958	55.31046
CpMdPd	29.00000	0.00000	121.92397	54.03849
CpMdPi	29.00000	0.00000	124.39718	54.98694
CpMiPd	29.00000	0.00000	123.98788	52.57020
CpMiPi	29.00000	0.00000	124.33521	54.18953
SpPd	29.00000	0.00000	122.28440	53.90810
SpPi	29.00000	0.00000	124.16303	53.32906



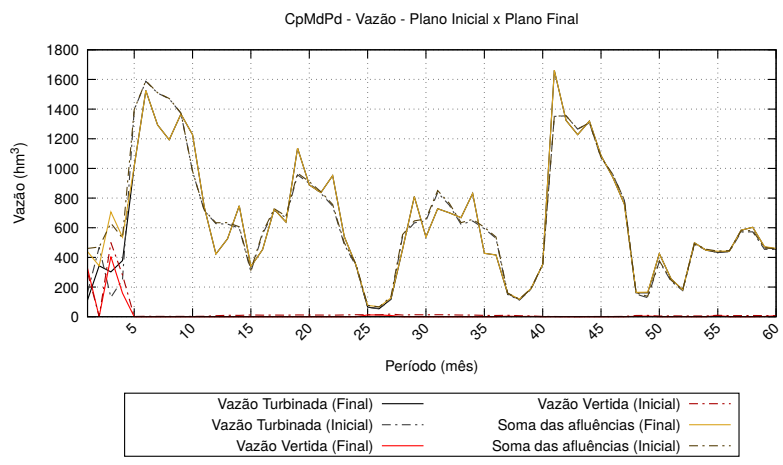
(a) Volume



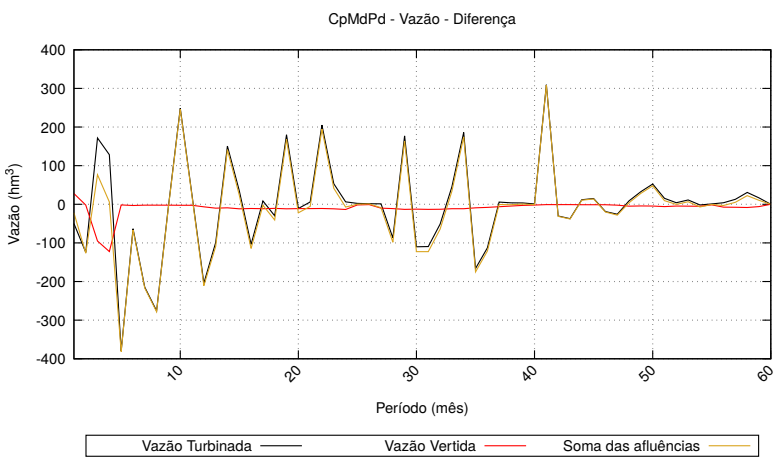
(b) Energia

11 Estação 113

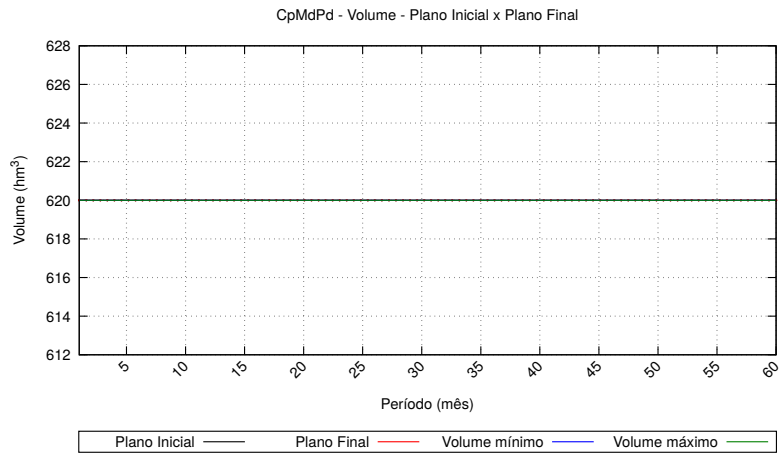
11.1 Resultados - CpMdPd



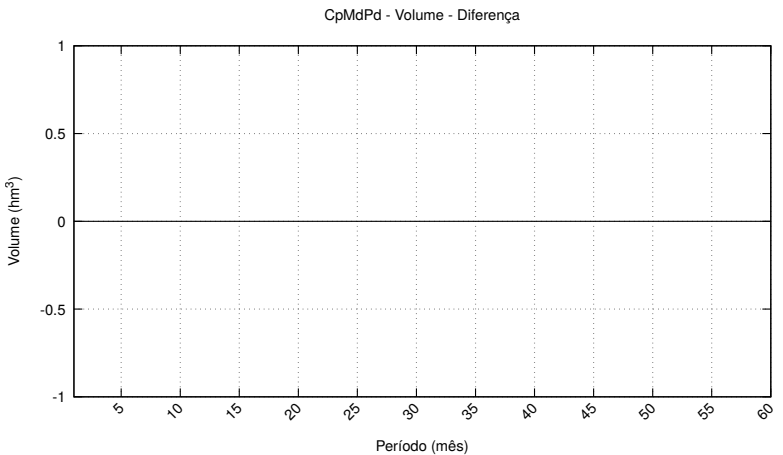
(a) CpMdPd



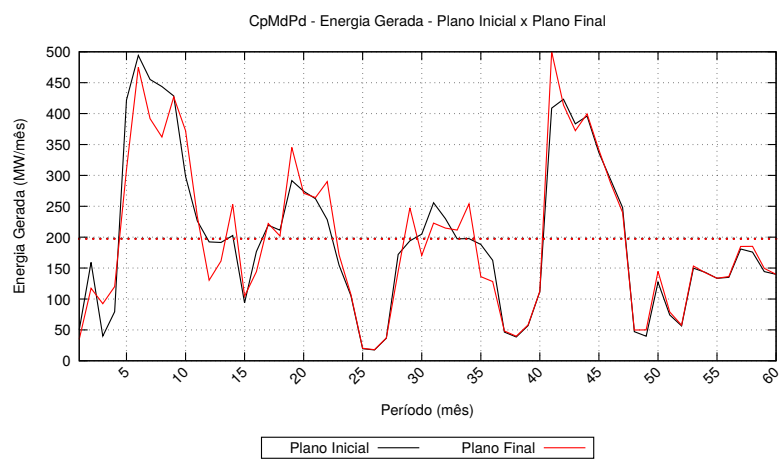
(b) CpMdPd



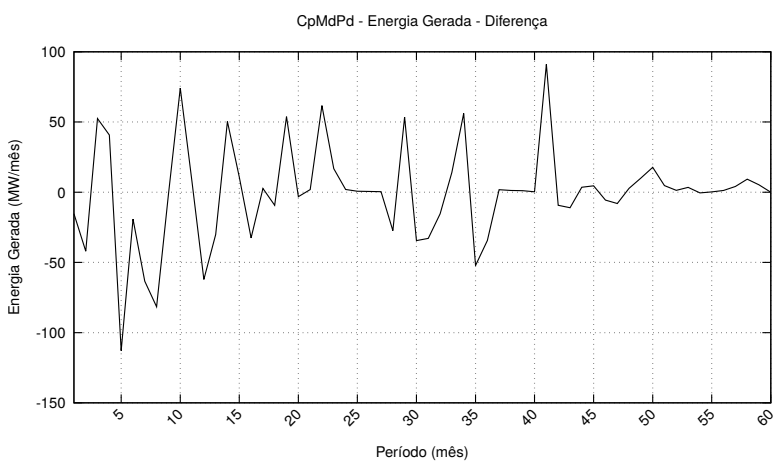
(a) CpMdPd



(b) CpMdPd



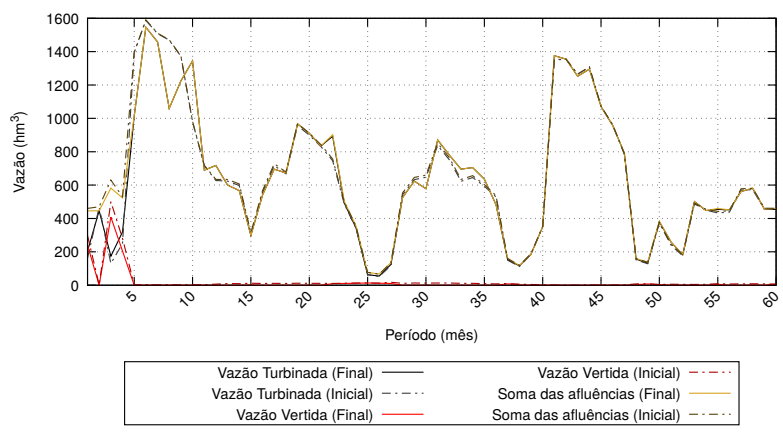
(a) CpMdPd



(b) CpMdPd

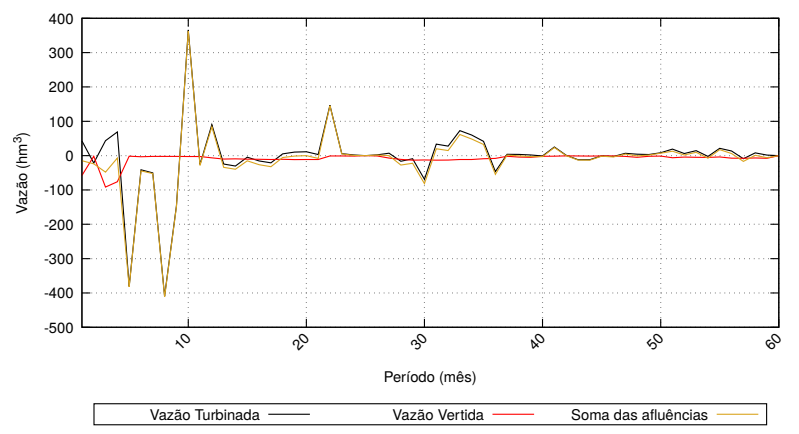
11.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



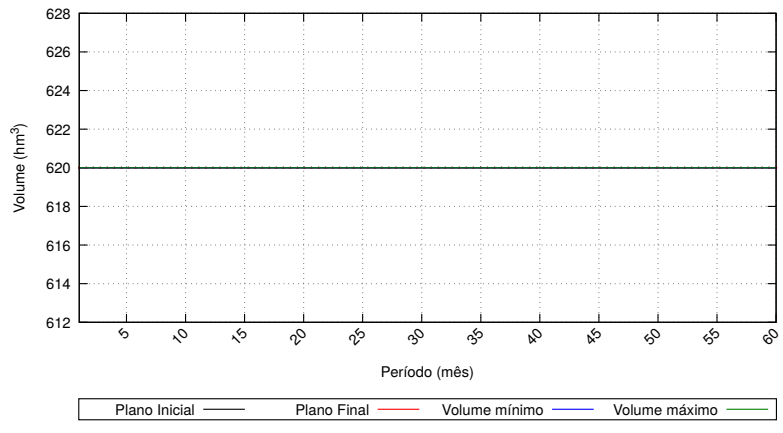
(a) CpMdPi

CpMdPi - Vazão - Diferença



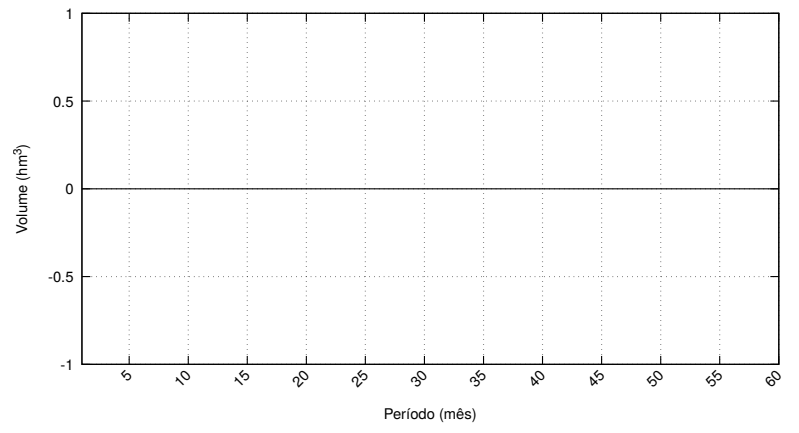
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



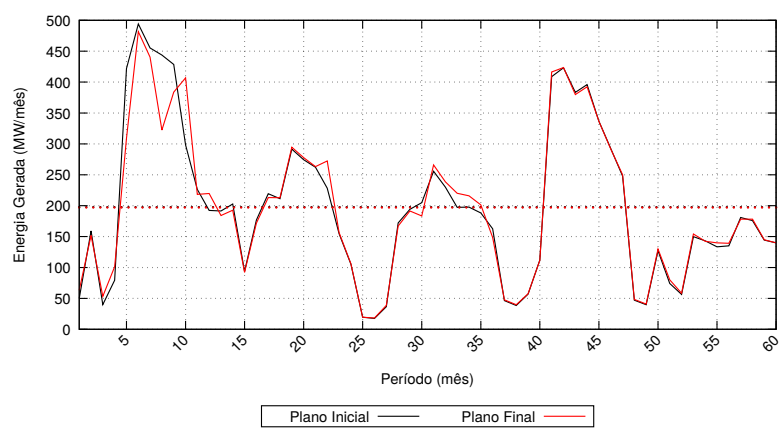
(a) CpMdPi

CpMdPi - Volume - Diferença



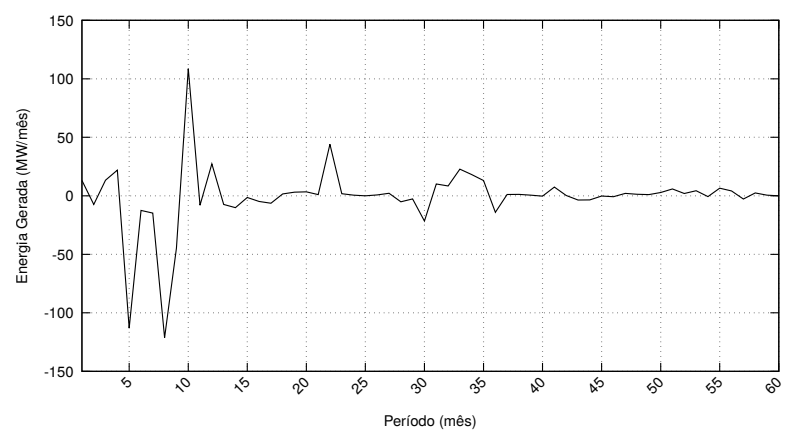
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



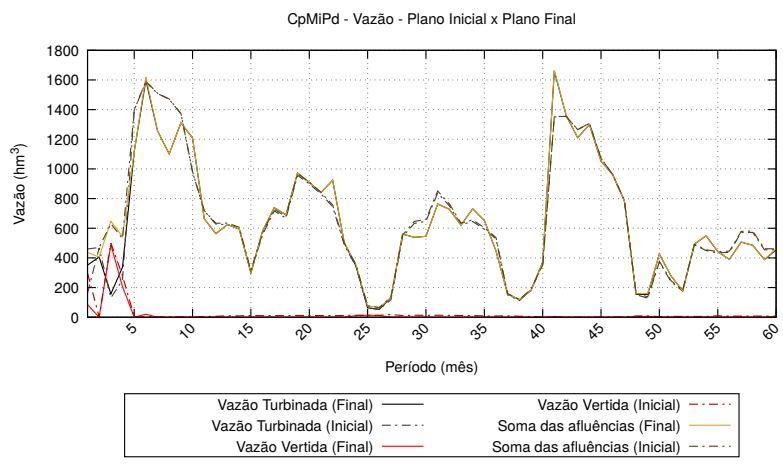
(a) CpMdPi

CpMdPi - Energia Gerada - Diferença

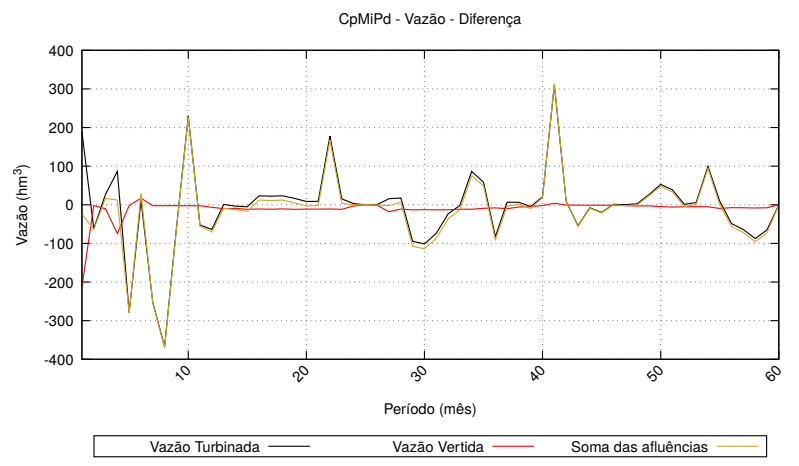


(b) CpMdPi

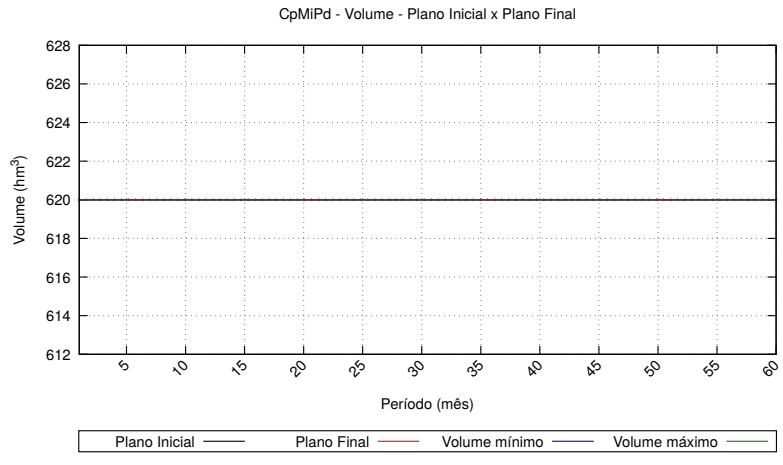
11.3 Resultados - CpMiPd



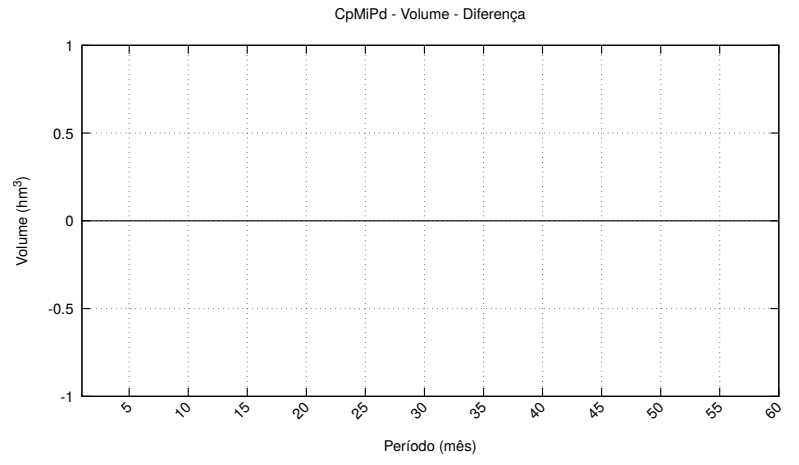
(a) CpMiPd



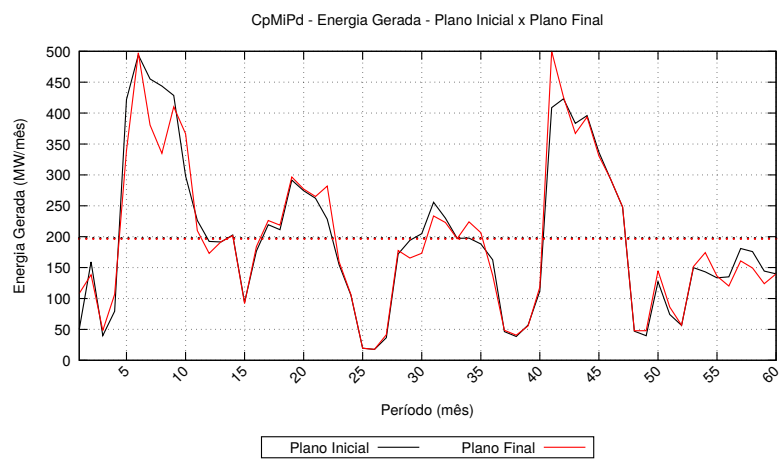
(b) CpMiPd



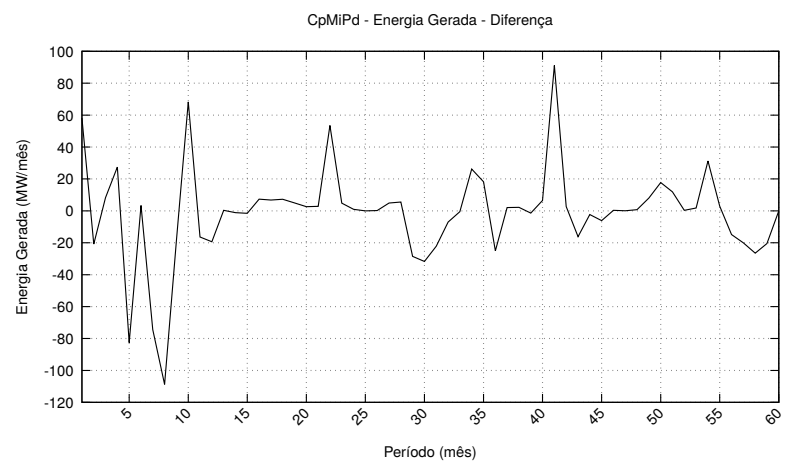
(a) CpMiPd



(b) CpMiPd



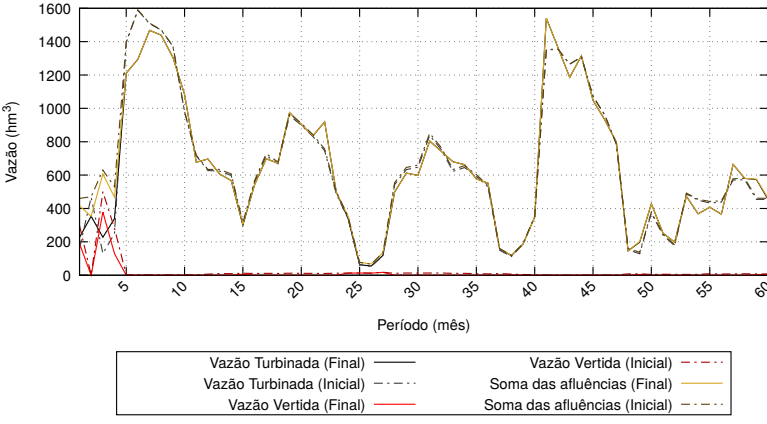
(a) CpMiPd



(b) CpMiPd

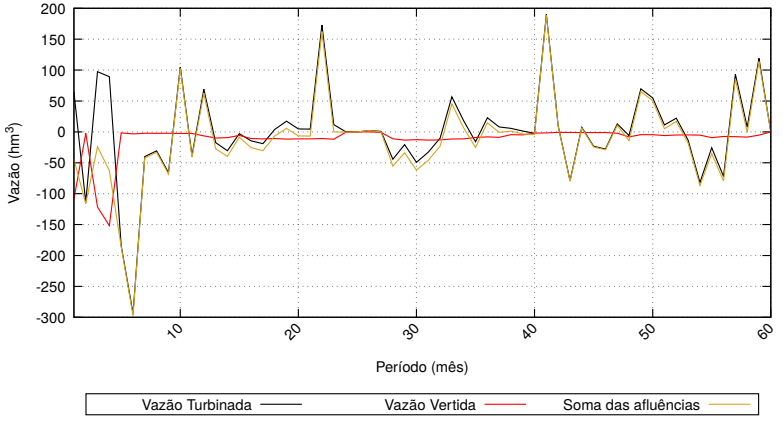
11.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



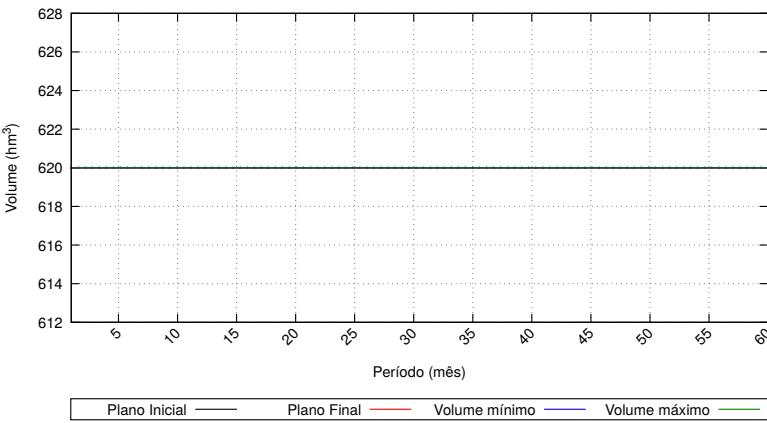
(a) CpMiPi

CpMiPi - Vazão - Diferença



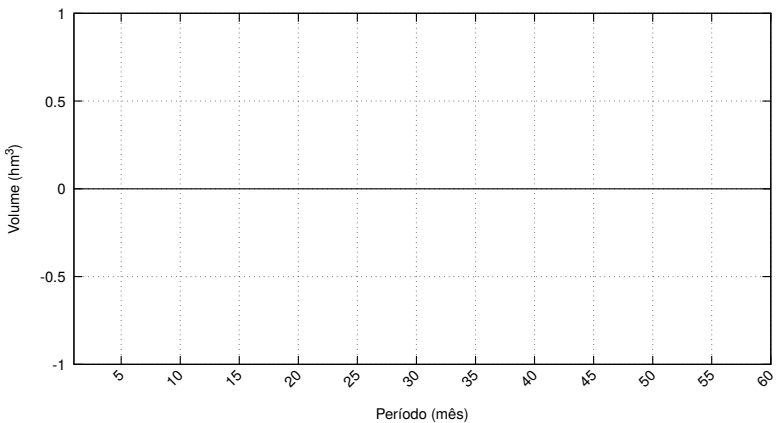
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



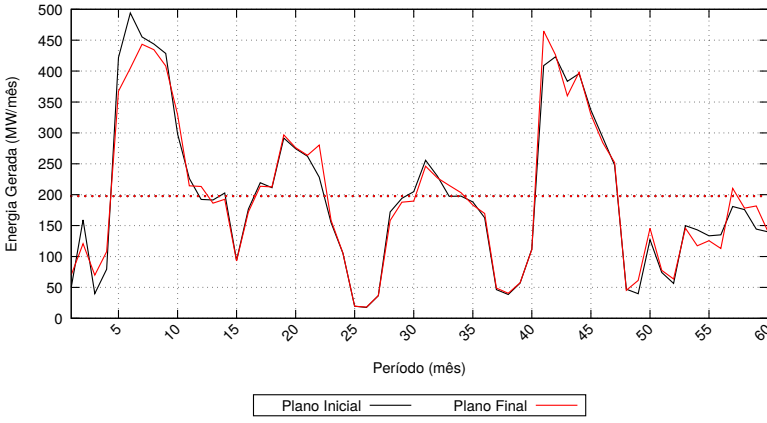
(a) CpMiPi

CpMiPi - Volume - Diferença



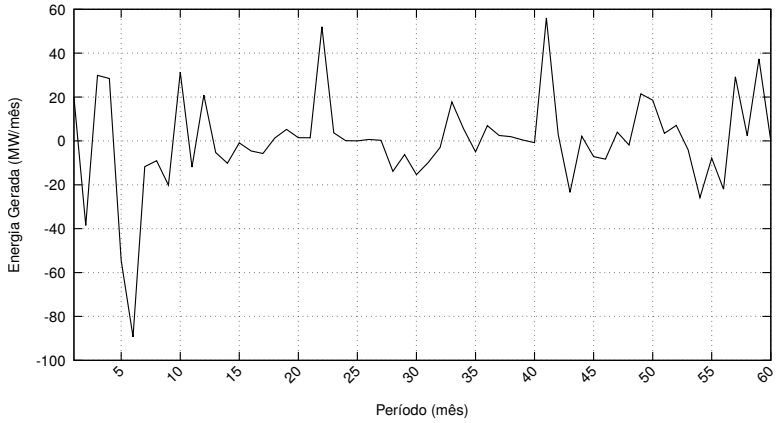
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

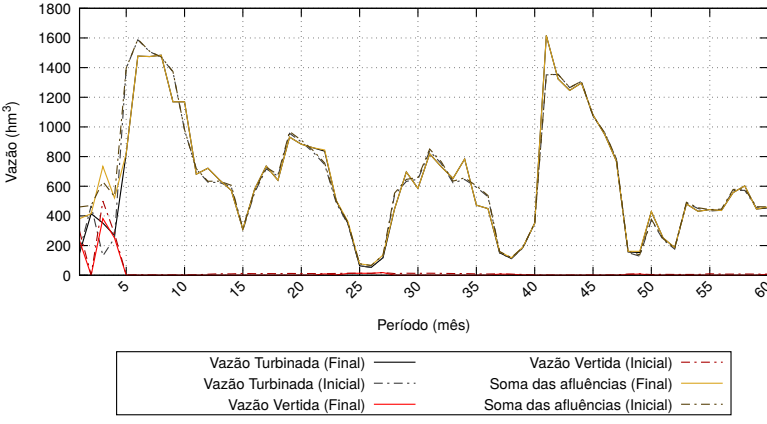
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

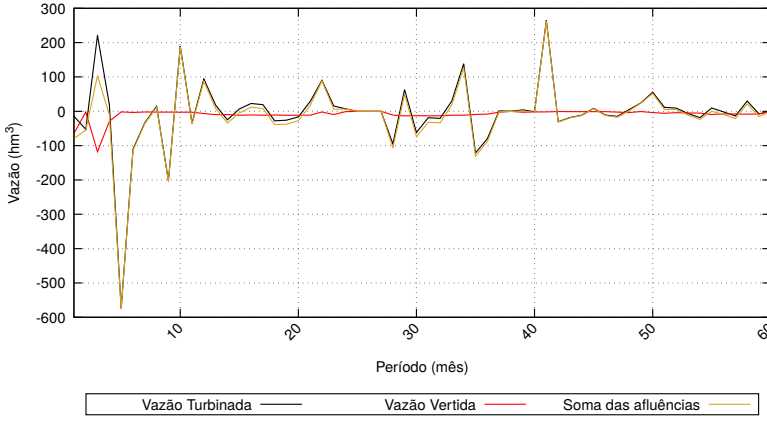
11.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



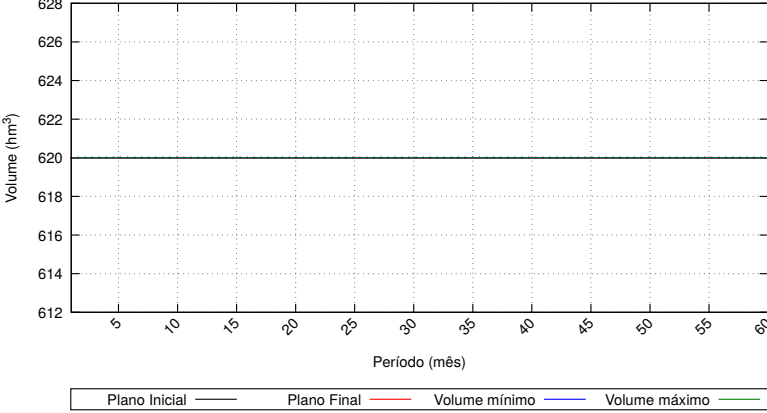
(a) SpPd

SpPd - Vazão - Diferença



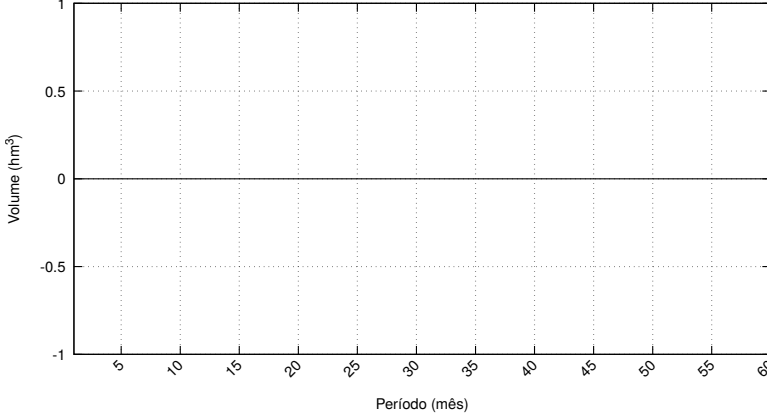
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



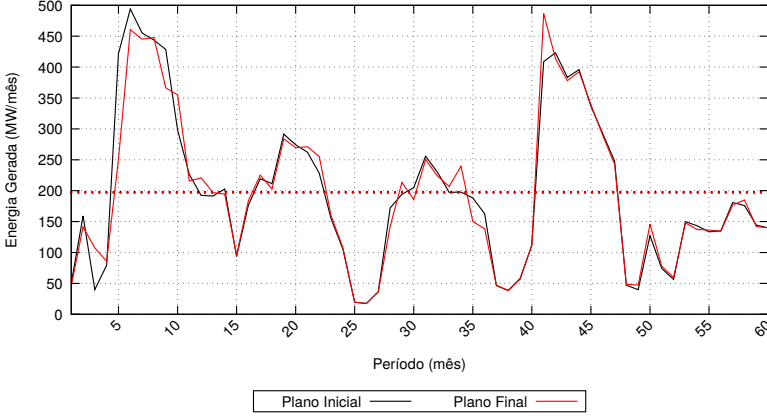
(a) SpPd

SpPd - Volume - Diferença



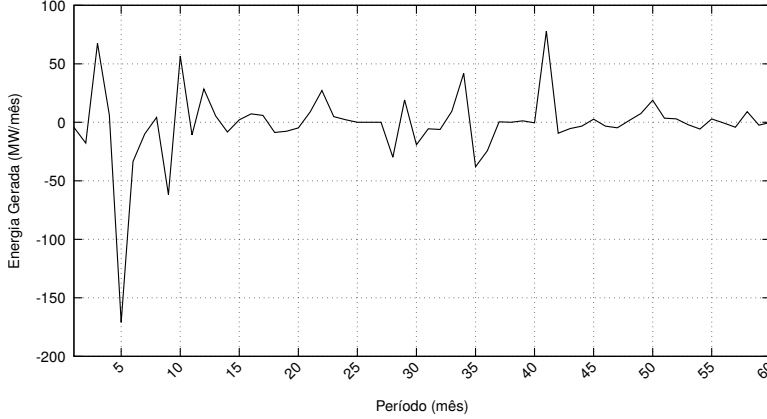
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

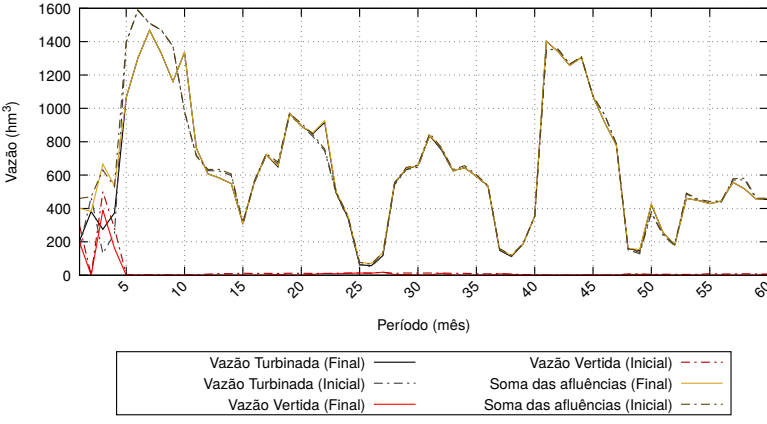
SpPd - Energia Gerada - Diferença



(b) SpPd

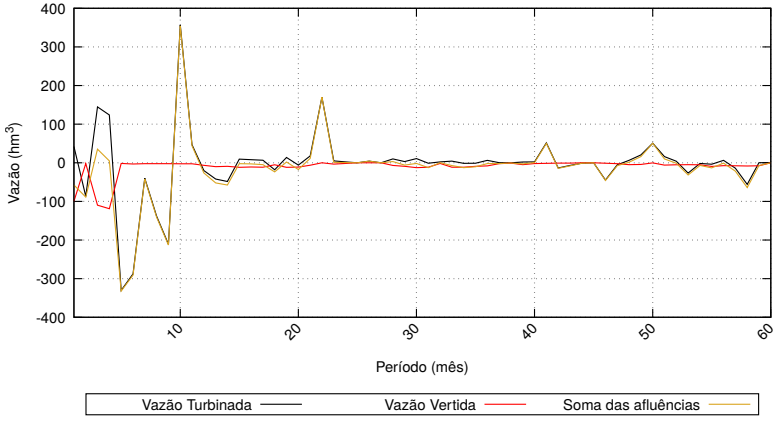
11.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



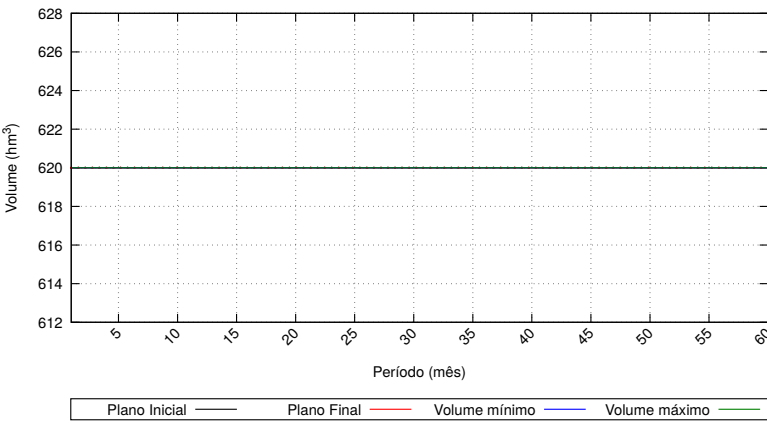
(a) SpPi

SpPi - Vazão - Diferença



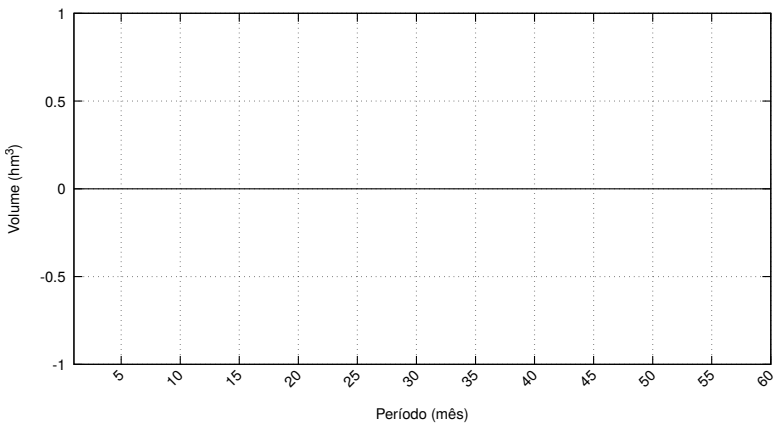
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



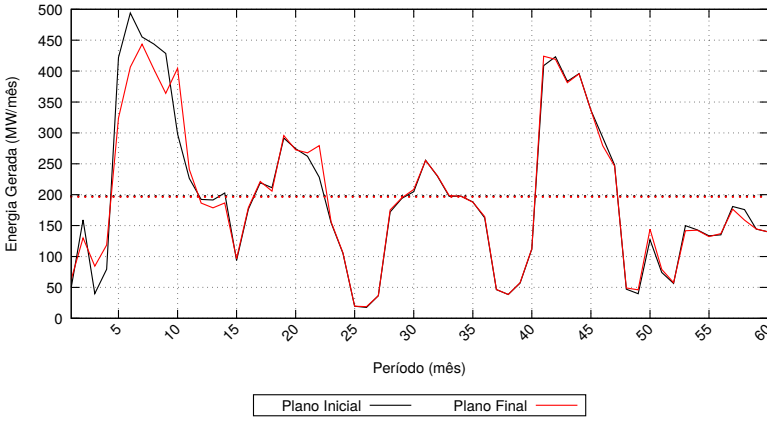
(a) SpPi

SpPi - Volume - Diferença



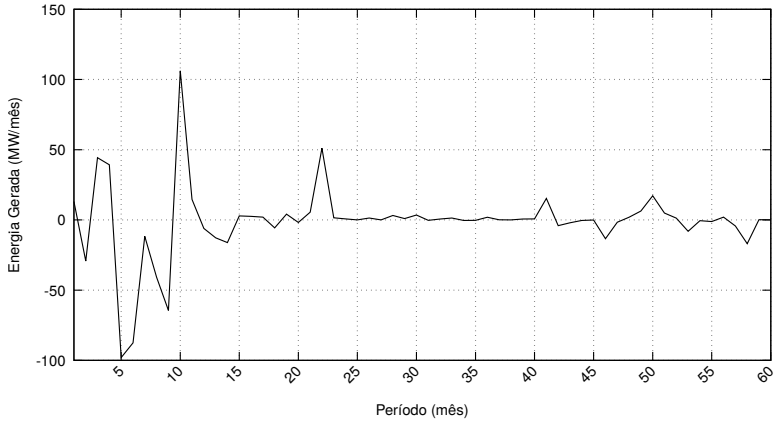
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

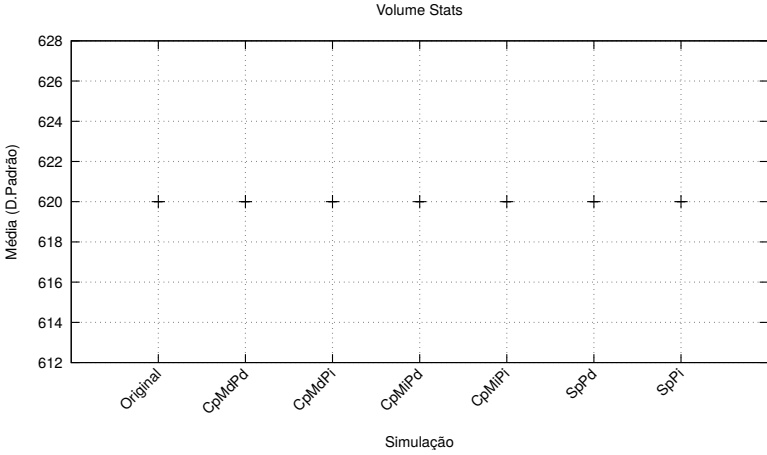


(b) SpPi

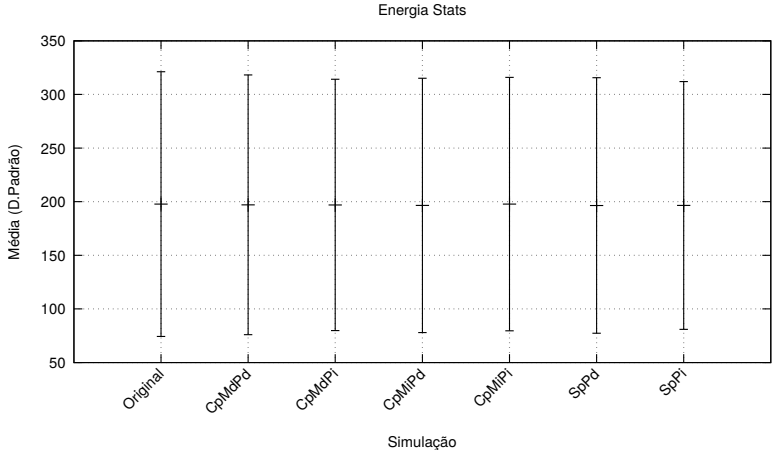
11.7 GPlan Stats

Tabela 16: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	620.00000	0.00000	197.76791	123.40355
CpMdPd	620.00000	0.00000	197.09316	121.09981
CpMdPi	620.00000	0.00000	196.97368	117.17999
CpMiPd	620.00000	0.00000	196.52541	118.59343
CpMiPi	620.00000	0.00000	197.78036	118.13578
SpPd	620.00000	0.00000	196.48530	119.18172
SpPi	620.00000	0.00000	196.49643	115.55493

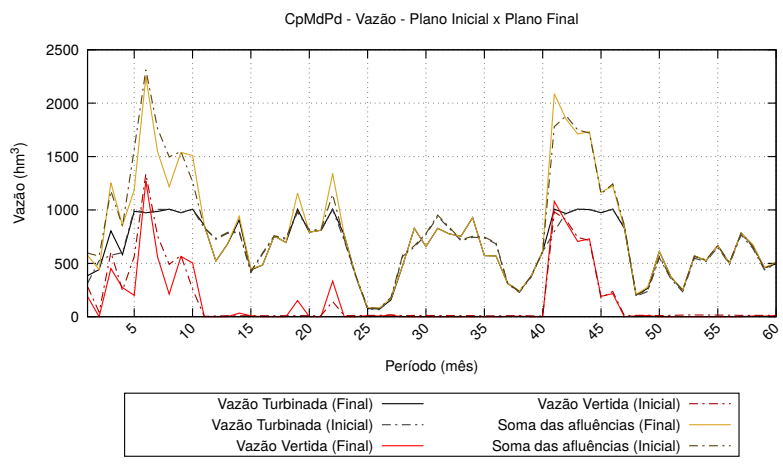


(a) Volume

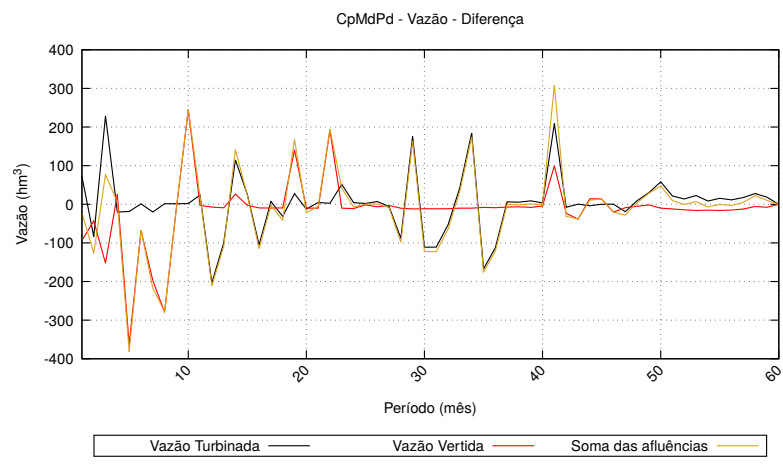


(b) Energia

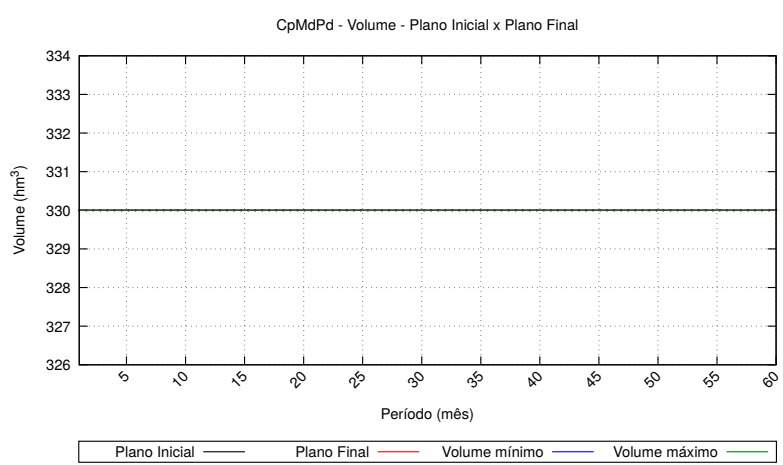
12.1 Resultados - CpMdPd



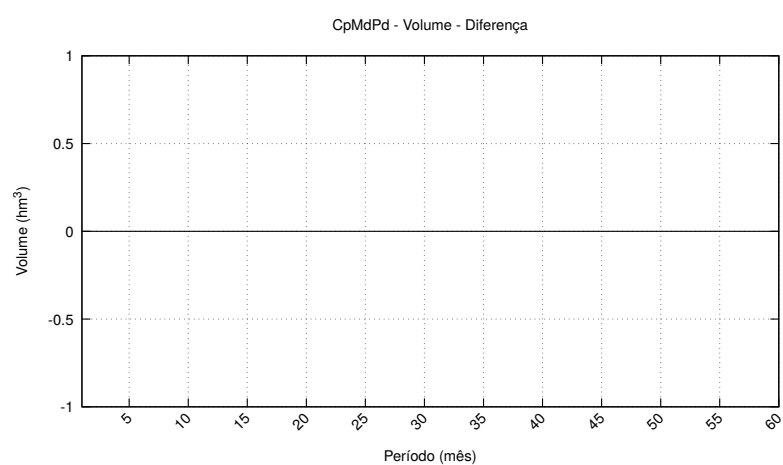
(a) CpMdPd



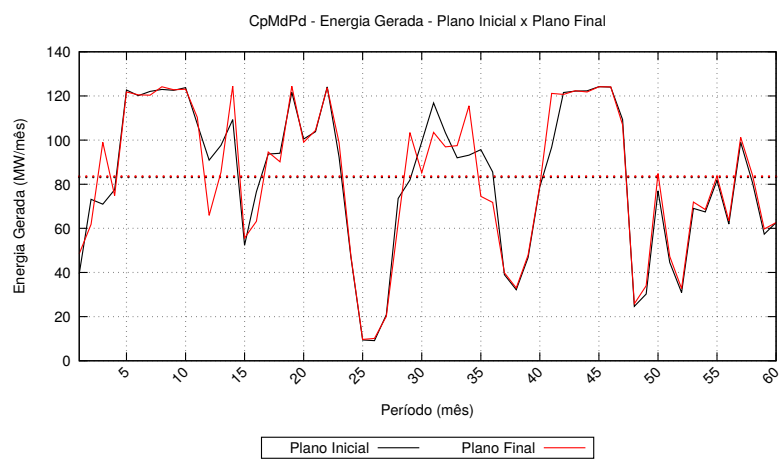
(b) CpMdPd



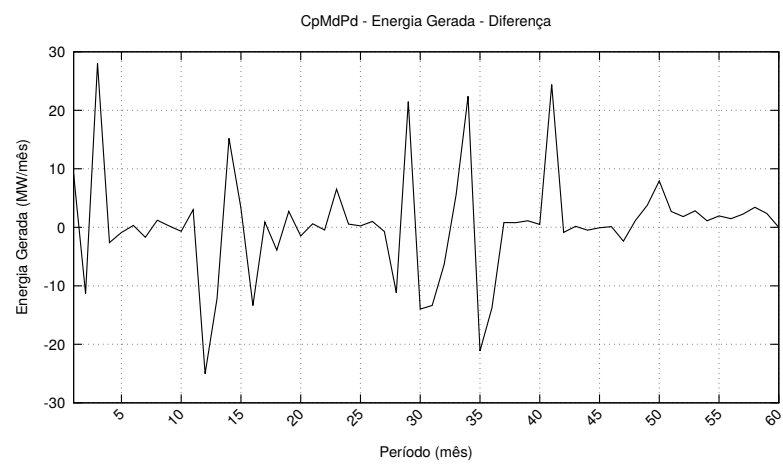
(a) CpMdPd



(b) CpMdPd



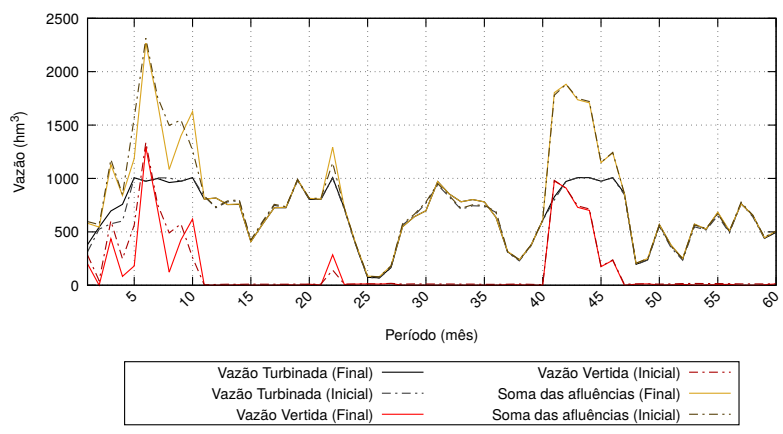
(a) CpMdPd



(b) CpMdPd

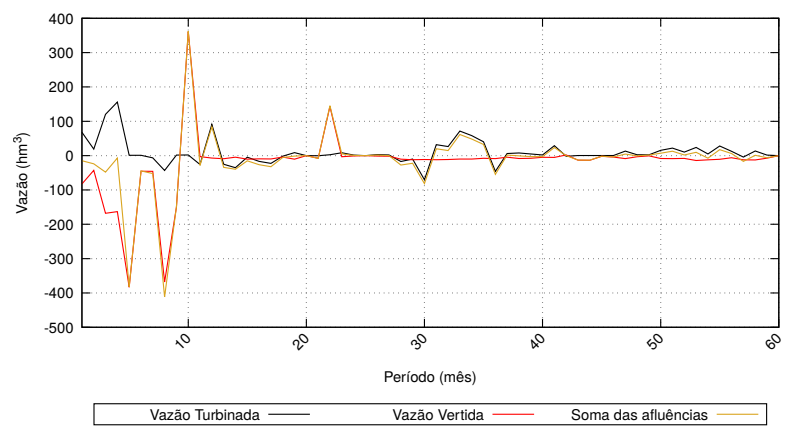
12.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



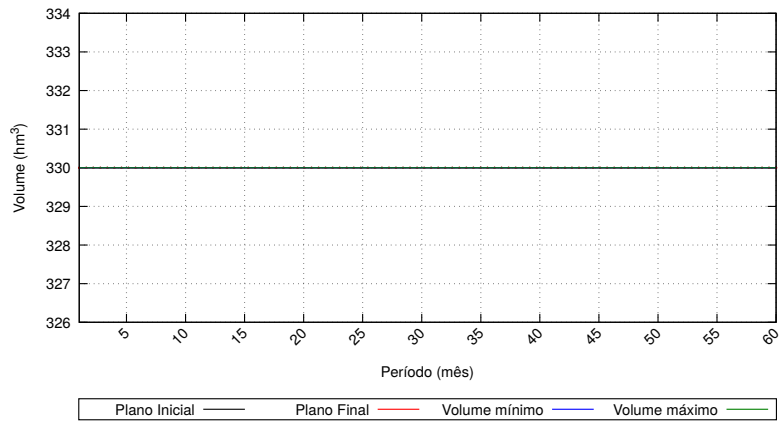
(a) CpMdPi

CpMdPi - Vazão - Diferença



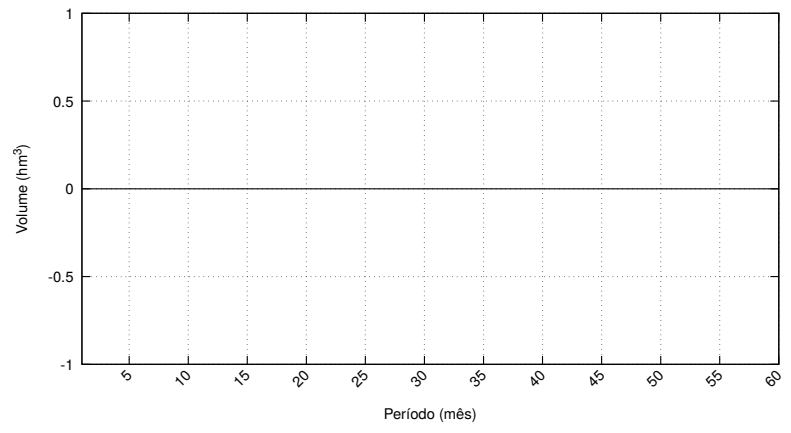
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



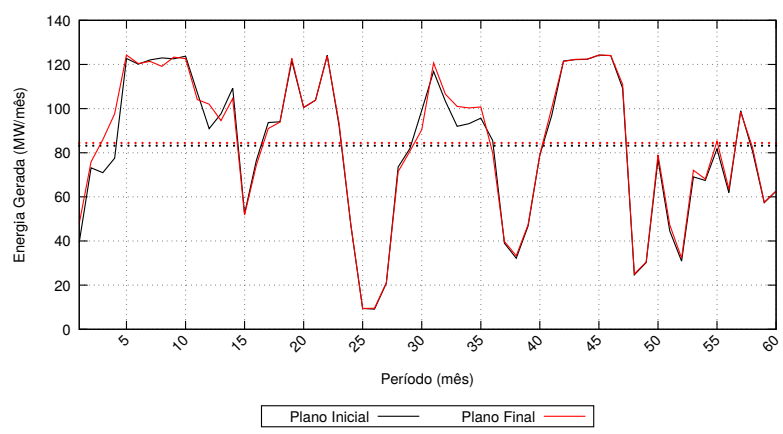
(a) CpMdPi

CpMdPi - Volume - Diferença



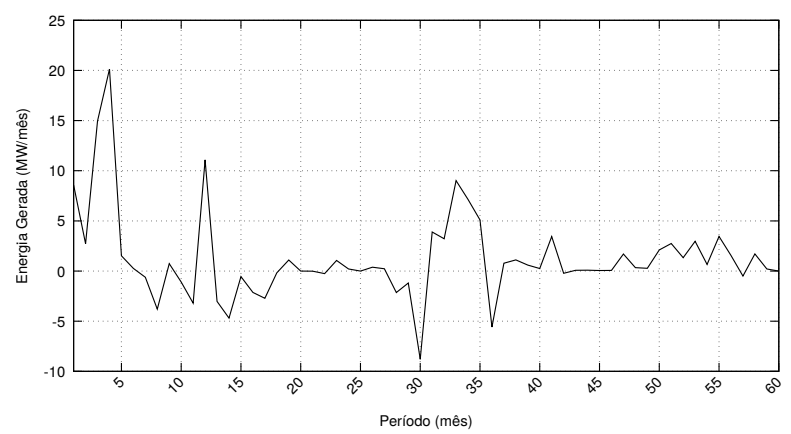
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

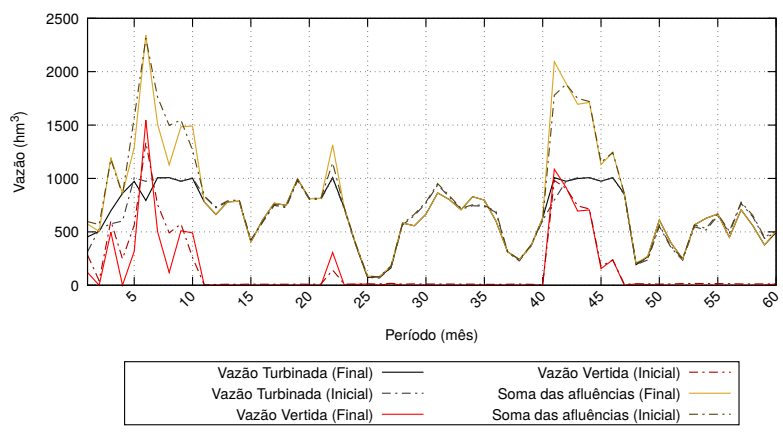
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

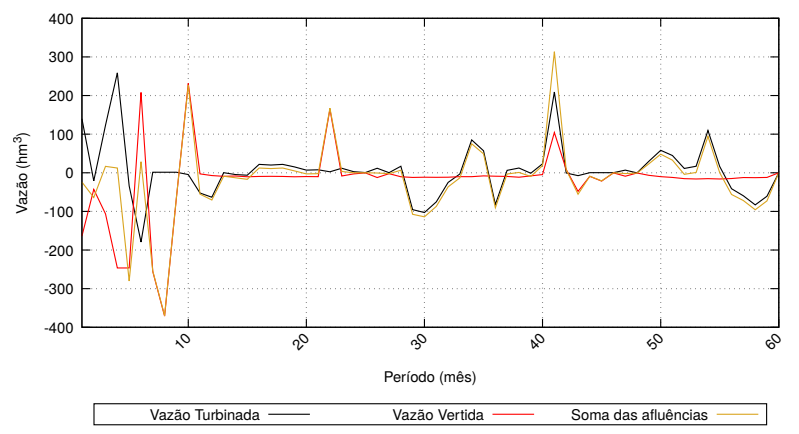
12.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



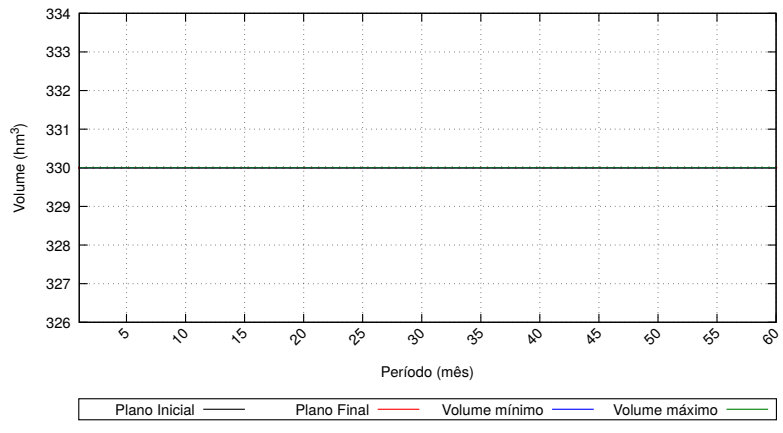
(a) CpMiPd

CpMiPd - Vazão - Diferença



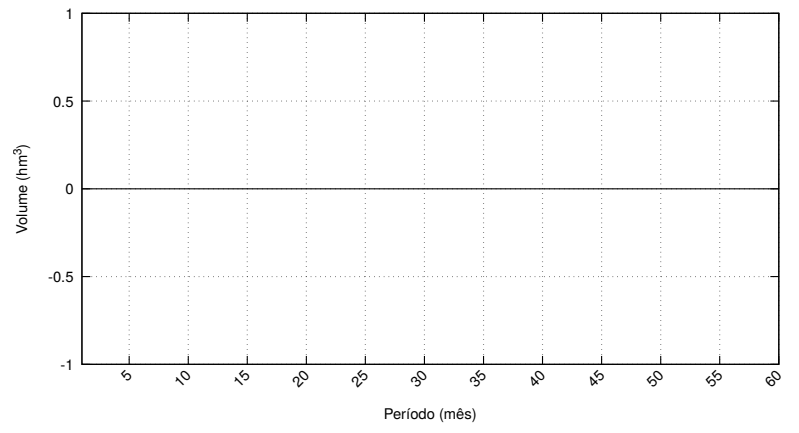
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



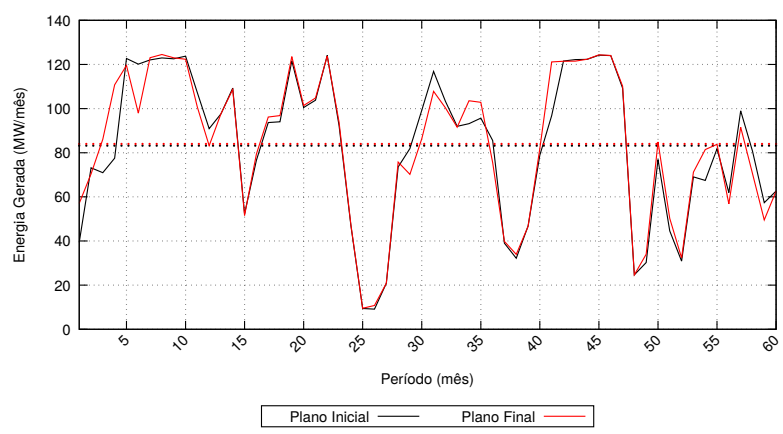
(a) CpMiPd

CpMiPd - Volume - Diferença



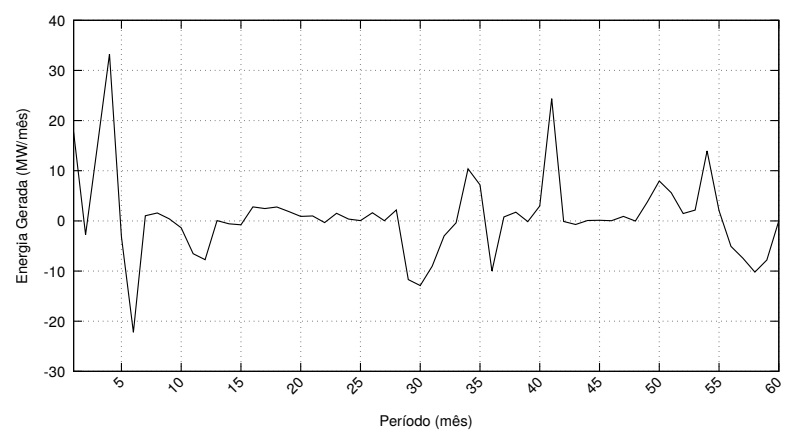
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

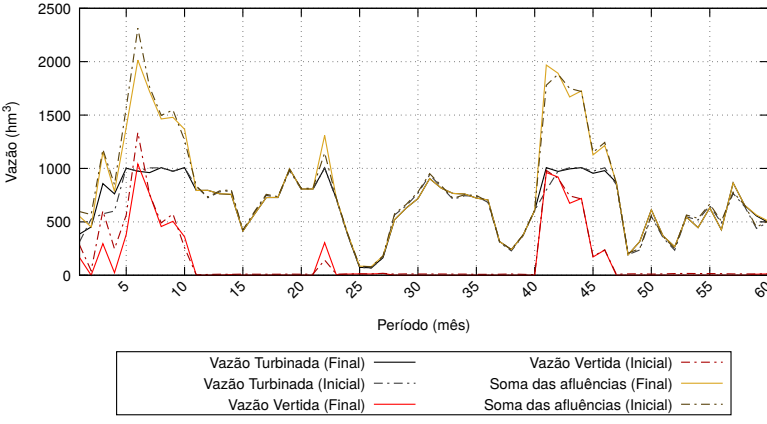
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

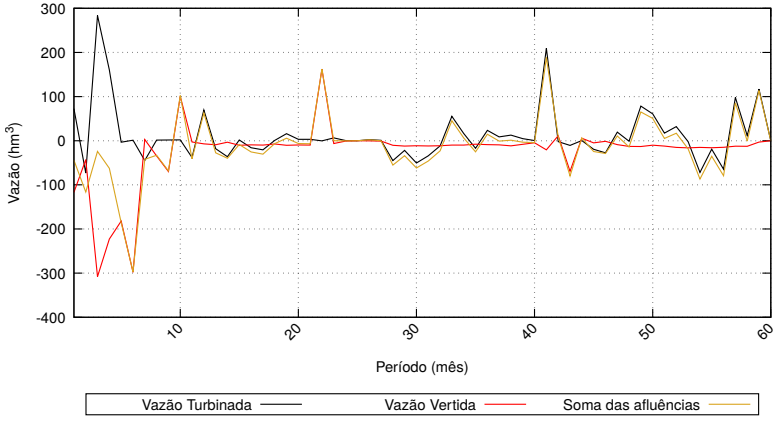
12.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



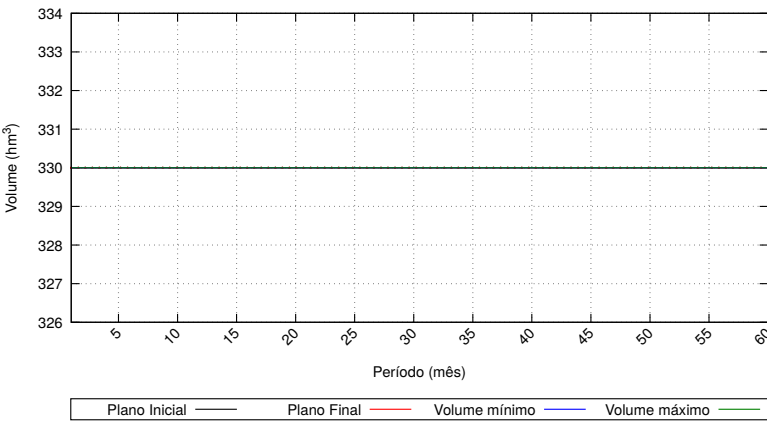
(a) CpMiPi

CpMiPi - Vazão - Diferença



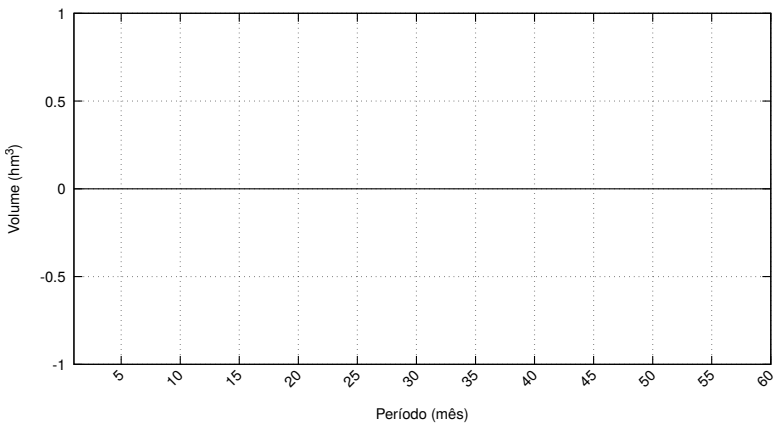
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



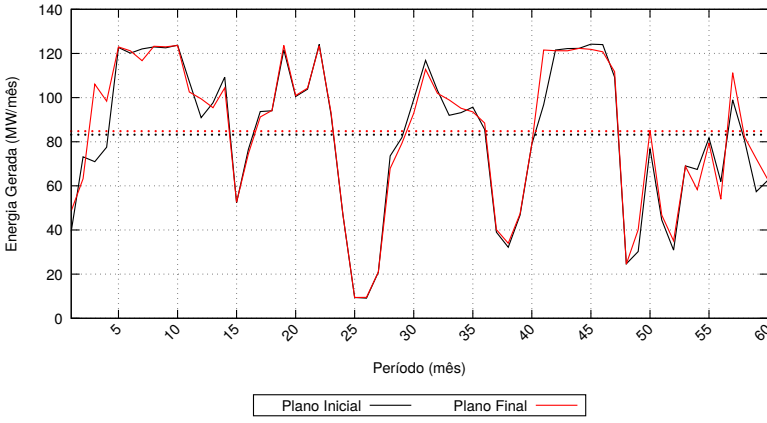
(a) CpMiPi

CpMiPi - Volume - Diferença



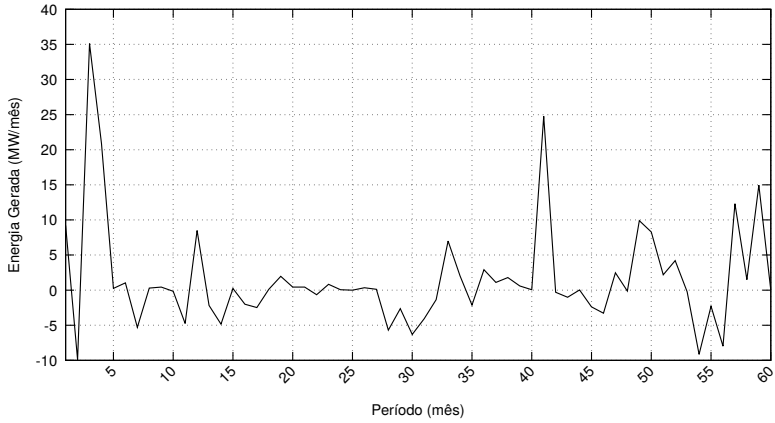
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

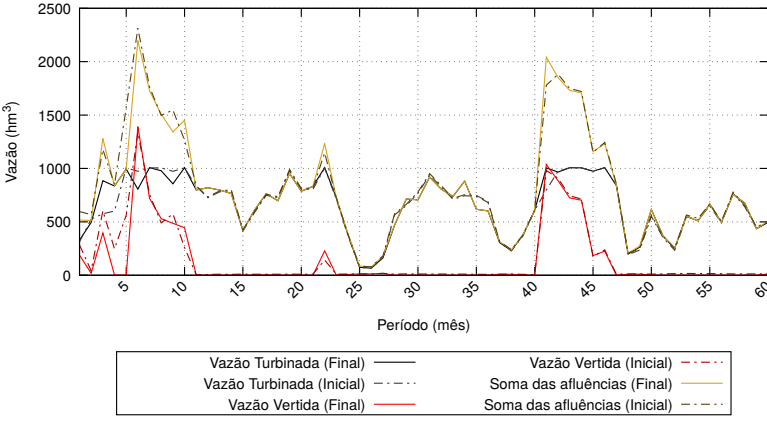
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

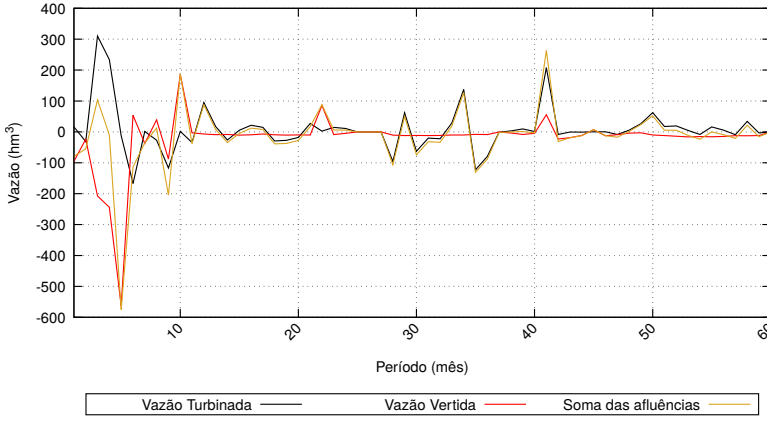
12.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



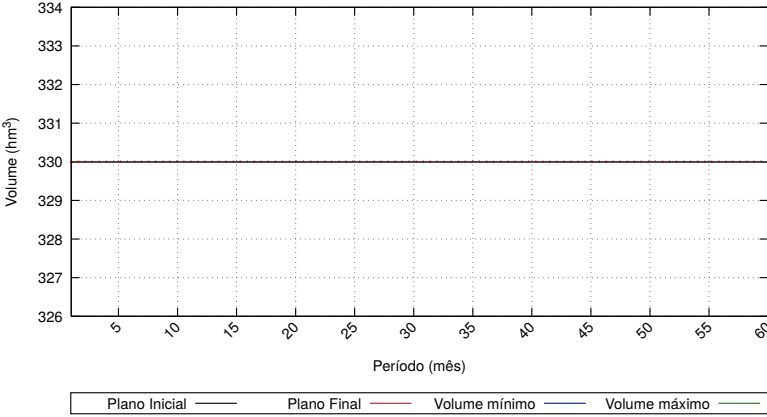
(a) SpPd

SpPd - Vazão - Diferença



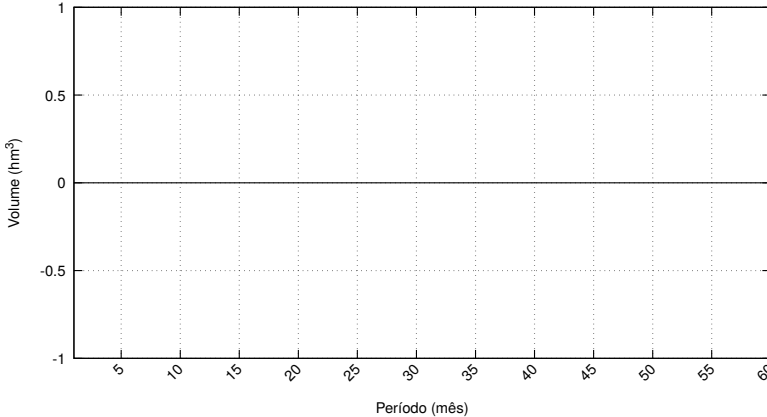
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



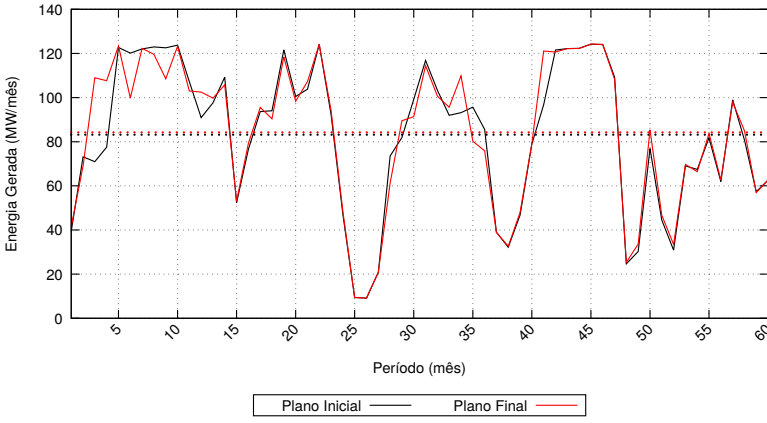
(a) SpPd

SpPd - Volume - Diferença



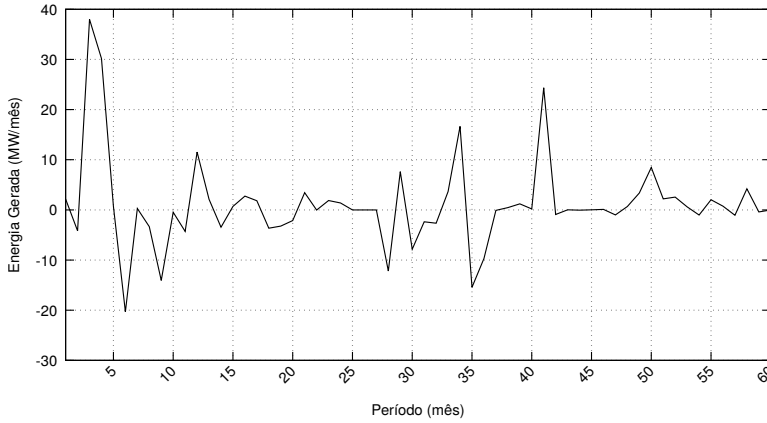
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

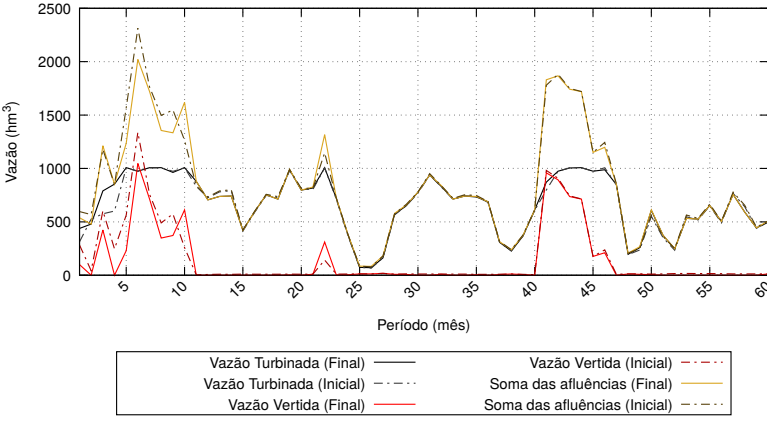
SpPd - Energia Gerada - Diferença



(b) SpPd

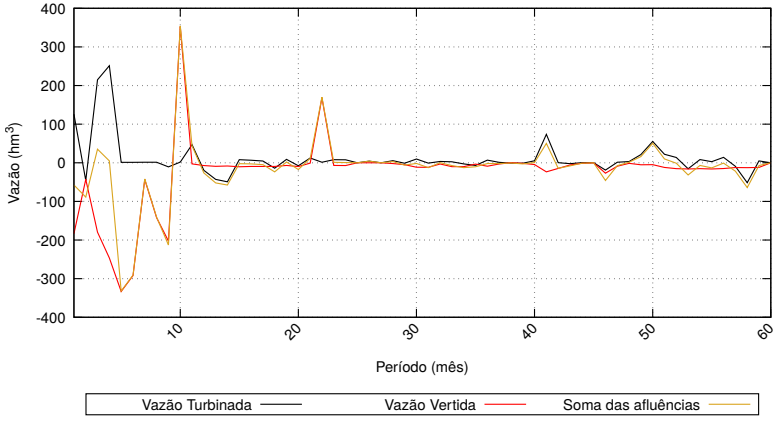
12.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



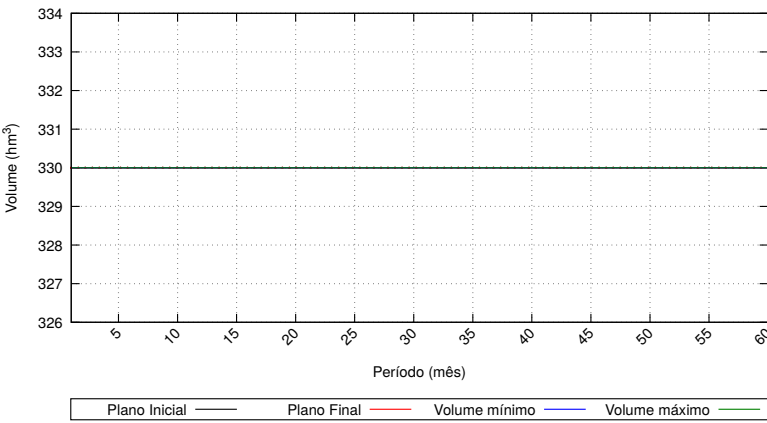
(a) SpPi

SpPi - Vazão - Diferença



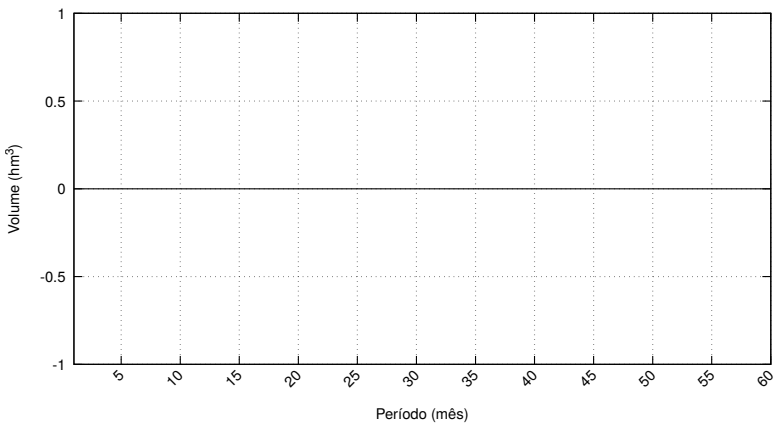
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



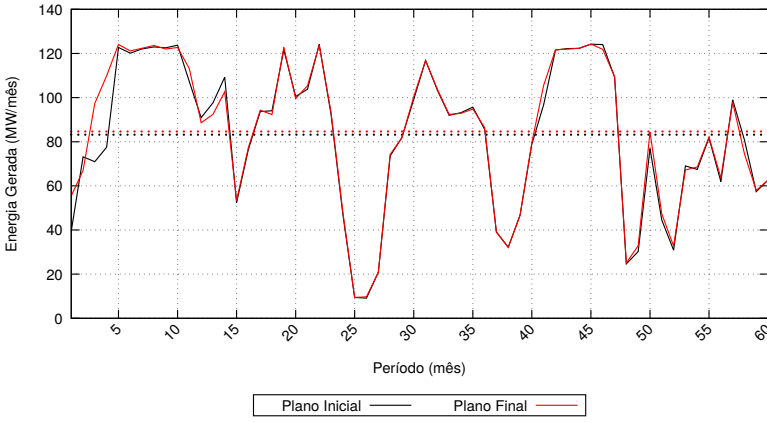
(a) SpPi

SpPi - Volume - Diferença



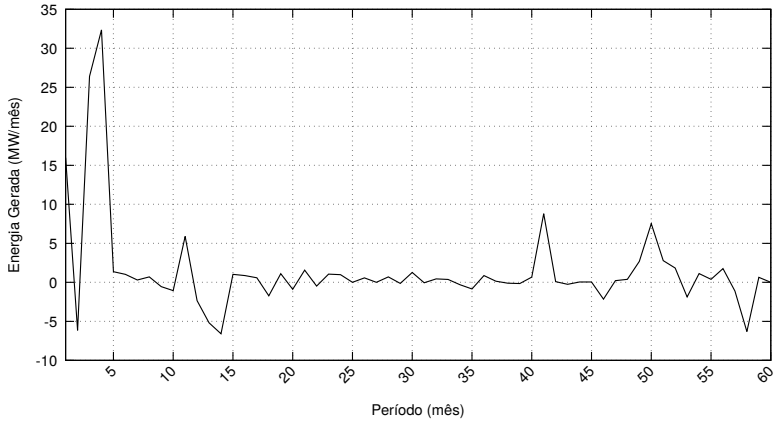
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

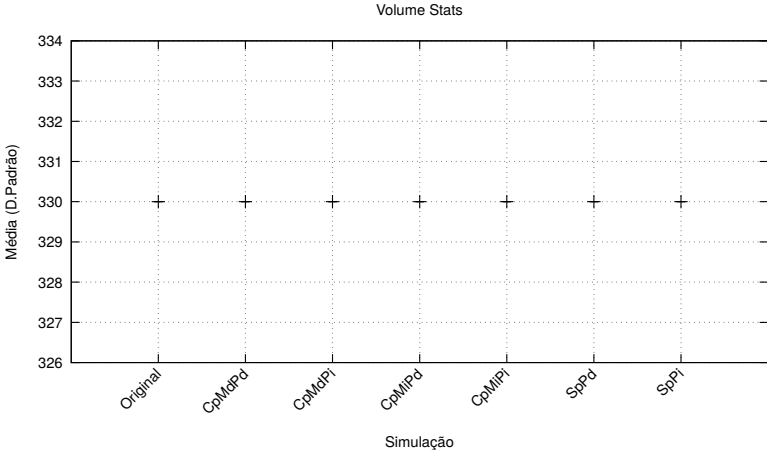


(b) SpPi

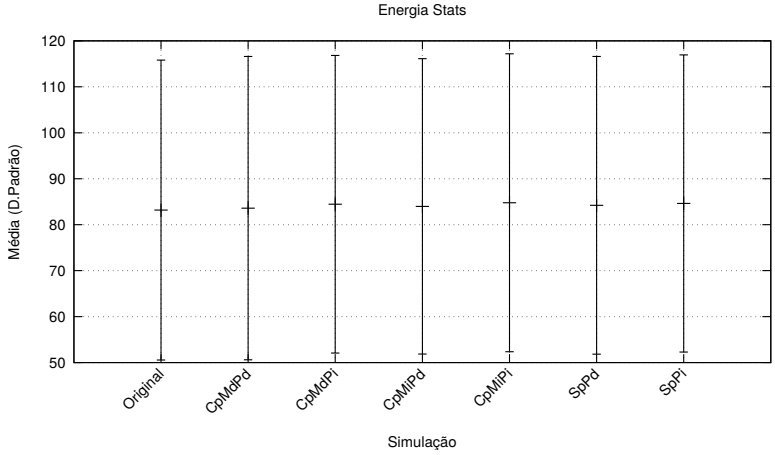
12.7 GPlan Stats

Tabela 17: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	330.00000	0.00000	83.18417	32.61931
CpMdPd	330.00000	0.00000	83.60178	33.00178
CpMdPi	330.00000	0.00000	84.45230	32.37519
CpMiPd	330.00000	0.00000	83.98823	32.13210
CpMiPi	330.00000	0.00000	84.76742	32.40666
SpPd	330.00000	0.00000	84.21642	32.38665
SpPi	330.00000	0.00000	84.61994	32.32774



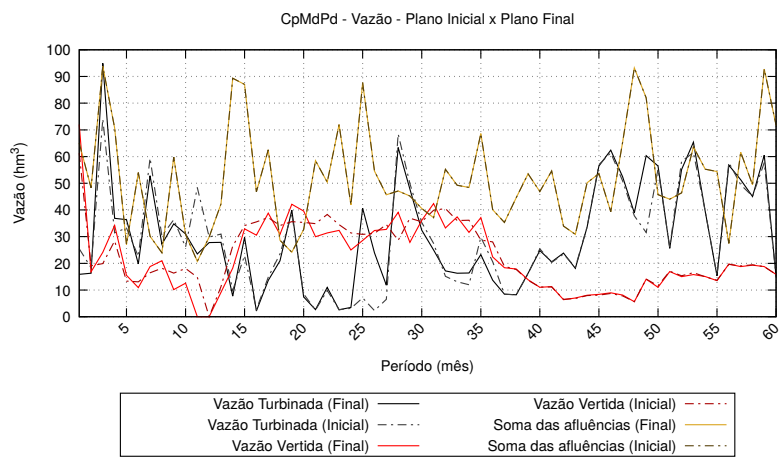
(a) Volume



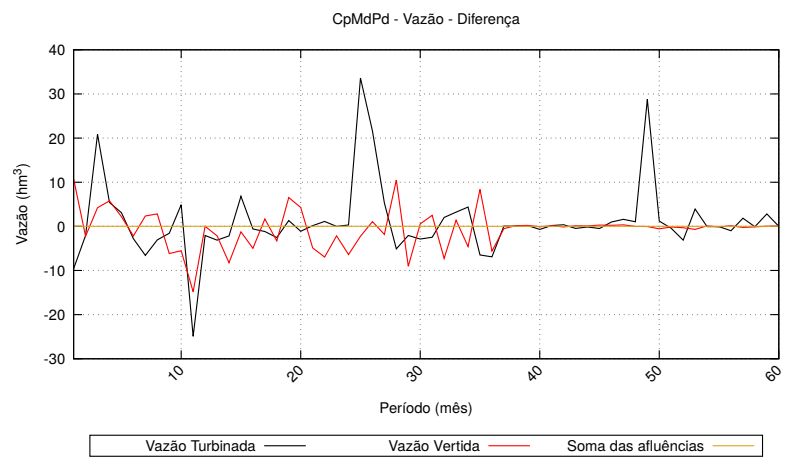
(b) Energia

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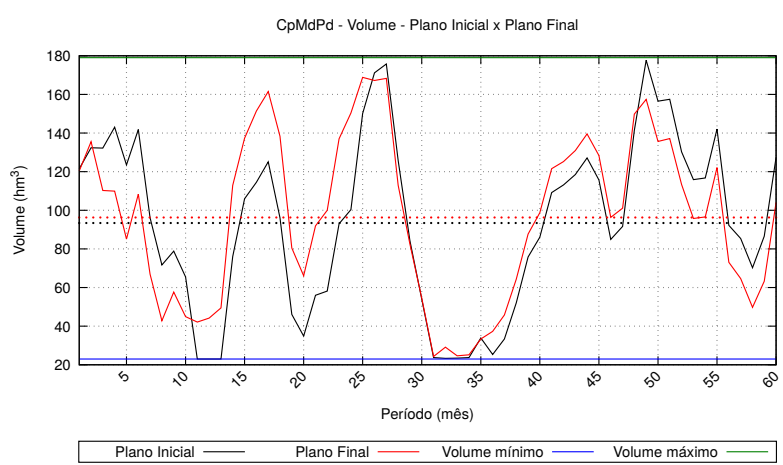
13.1 Resultados - CpMdPd



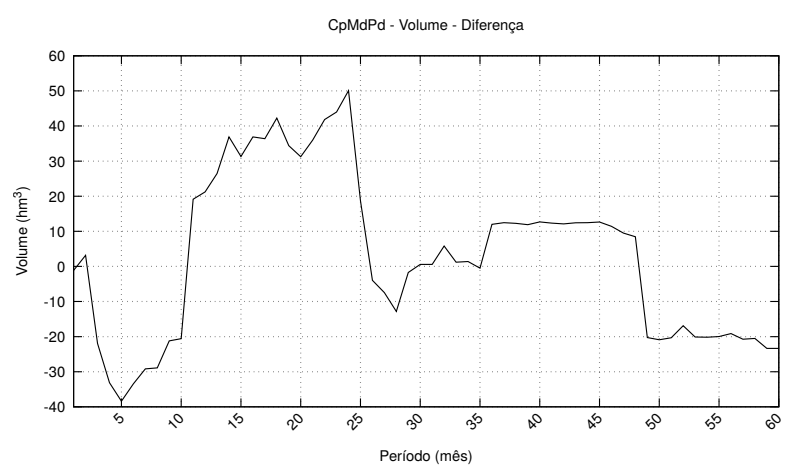
(a) CpMdPd



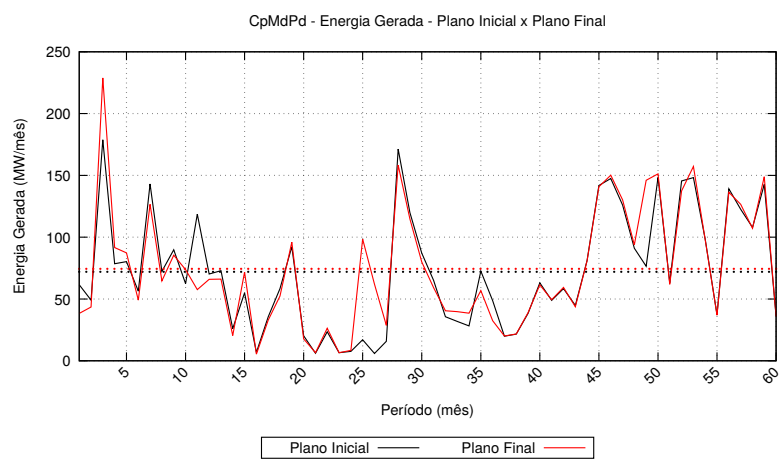
(b) CpMdPd



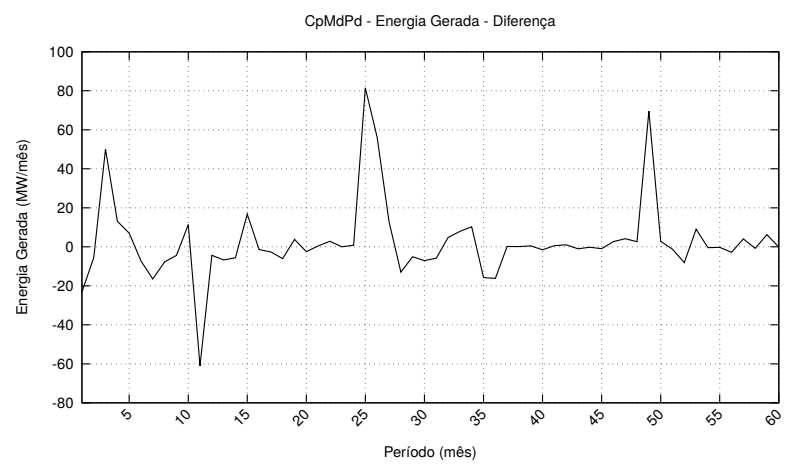
(a) CpMdPd



(b) CpMdPd

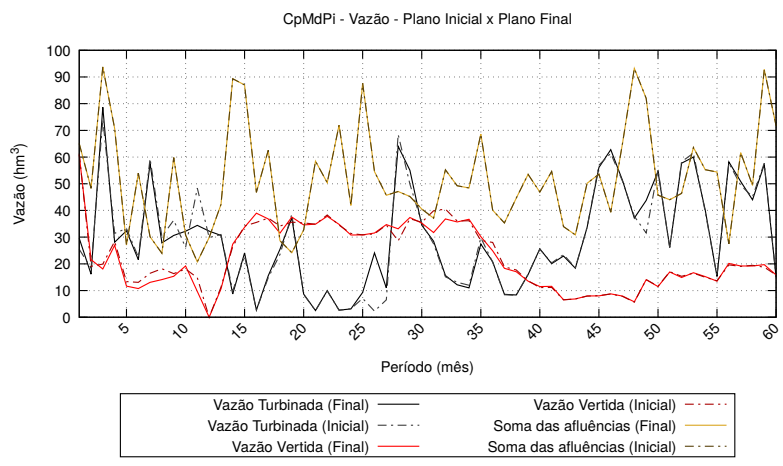


(a) CpMdPd

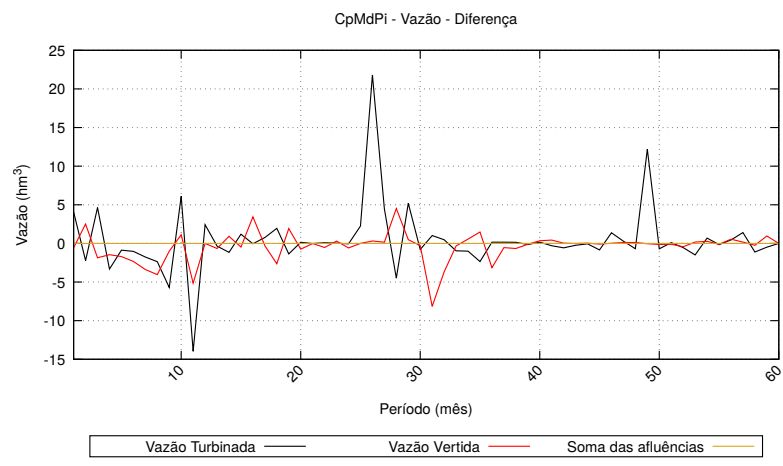


(b) CpMdPd

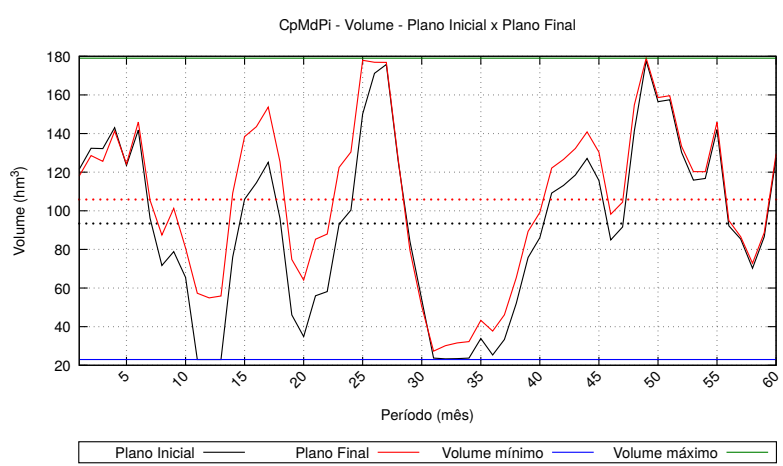
13.2 Resultados - CpMdPi



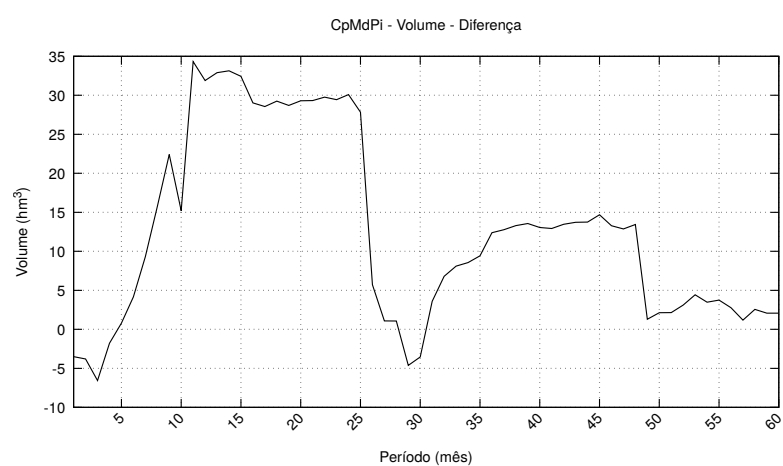
(a) CpMdPi



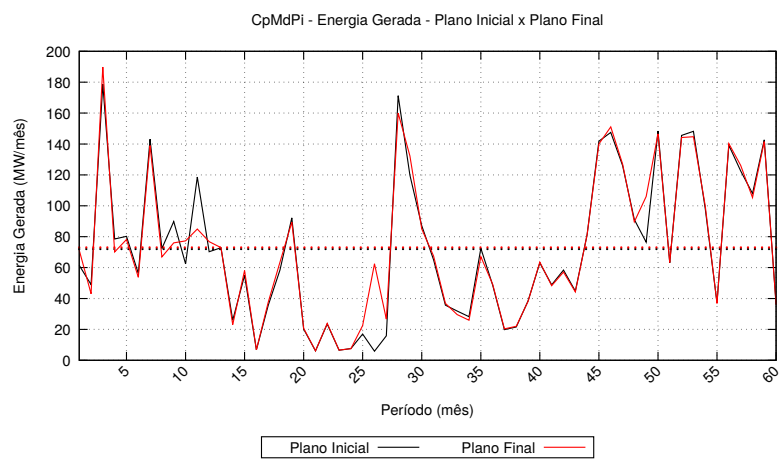
(b) CpMdPi



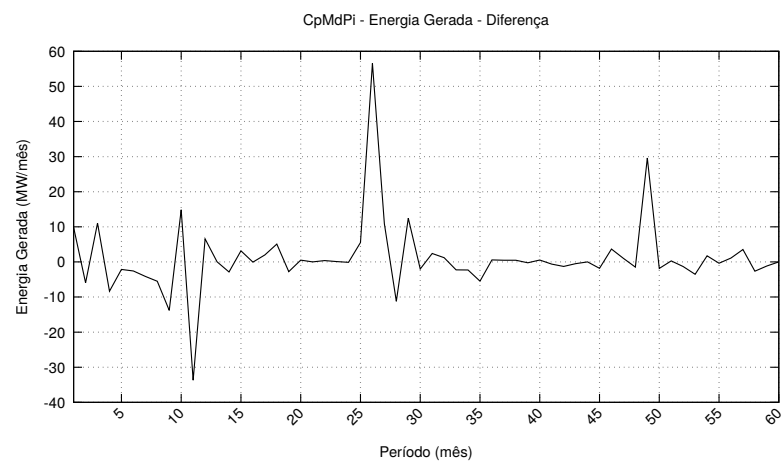
(a) CpMdPi



(b) CpMdPi

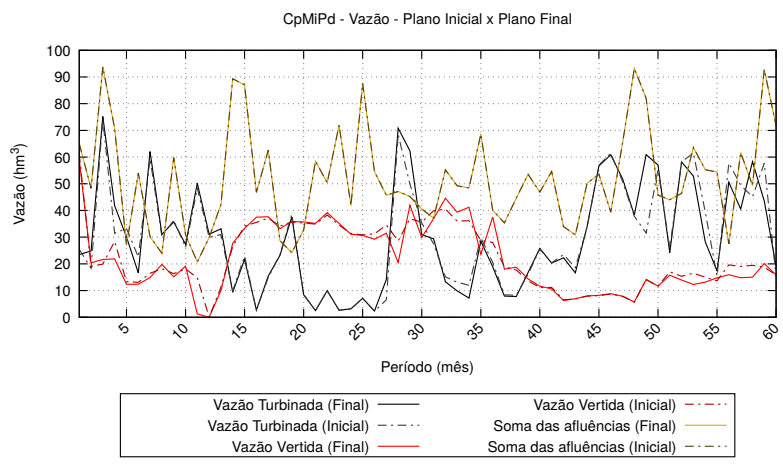


(a) CpMdPi

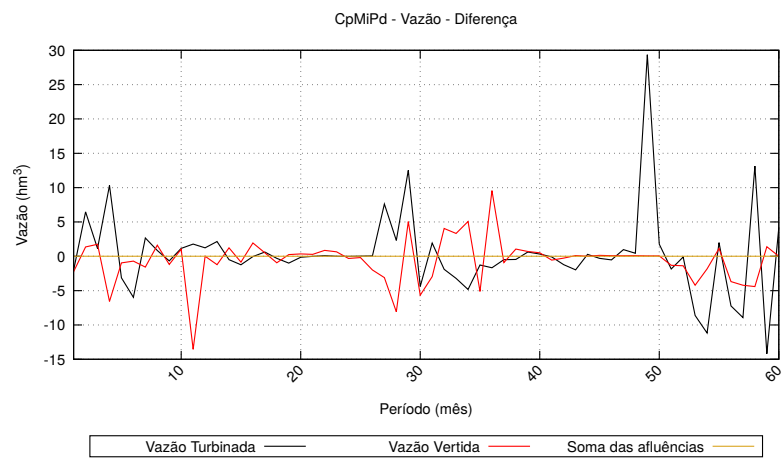


(b) CpMdPi

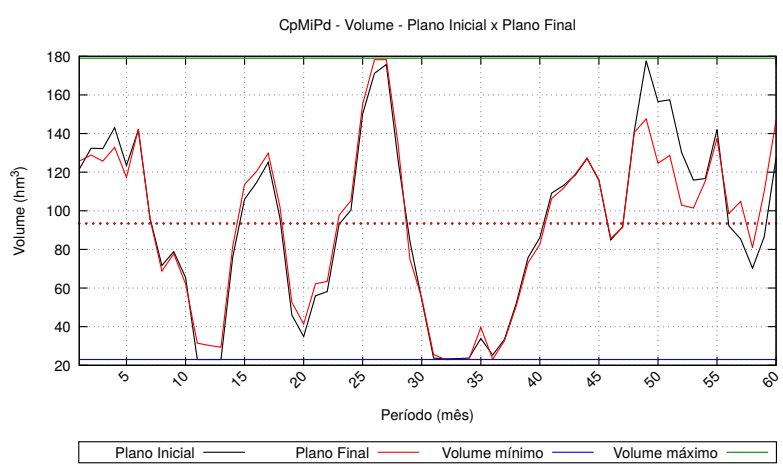
13.3 Resultados - CpMiPd



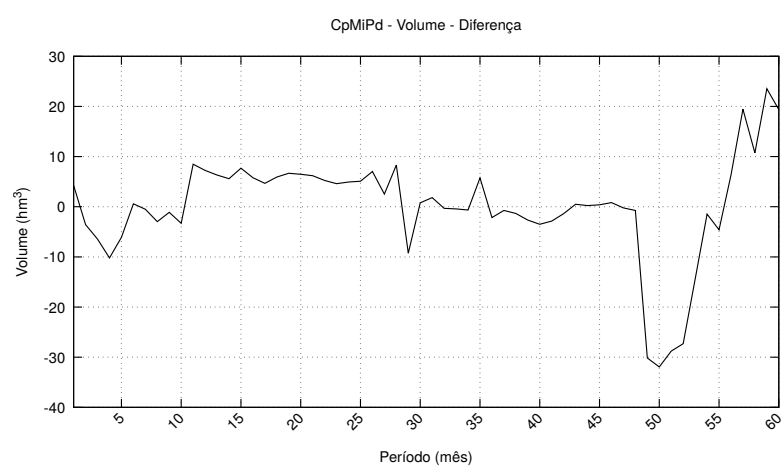
(a) CpMiPd



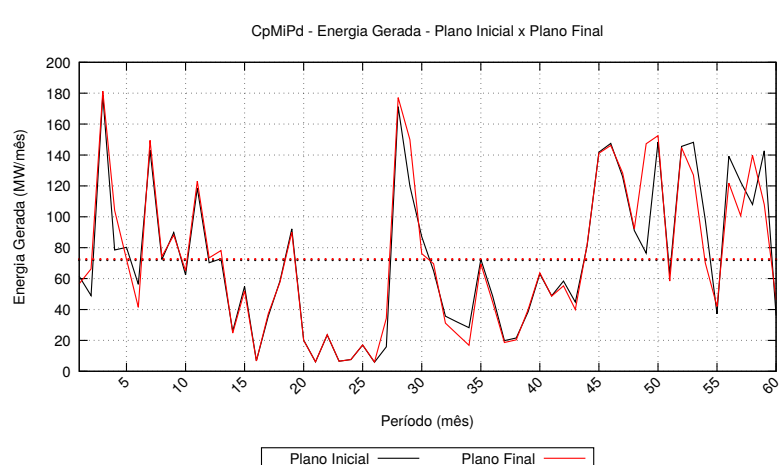
(b) CpMiPd



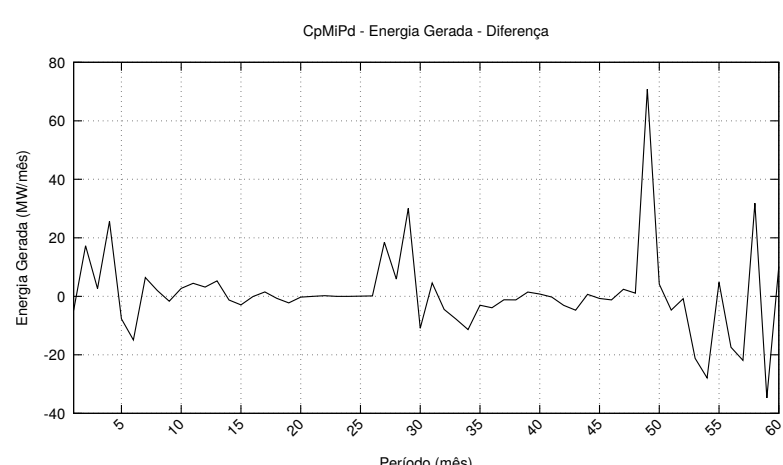
(a) CpMiPd



(b) CpMiPd



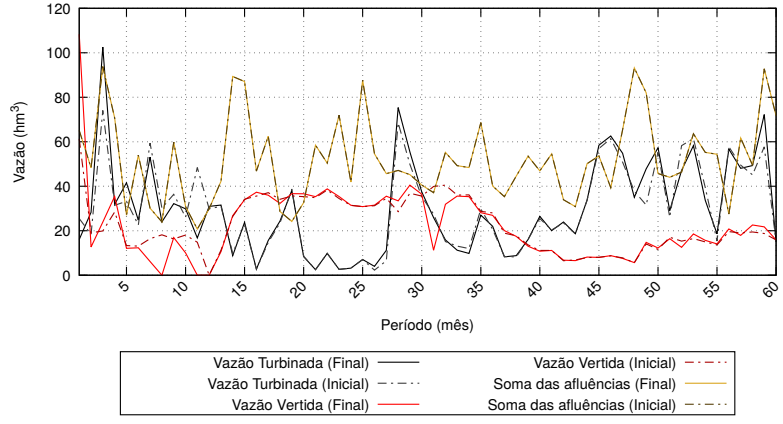
(a) CpMiPd



(b) CpMiPd

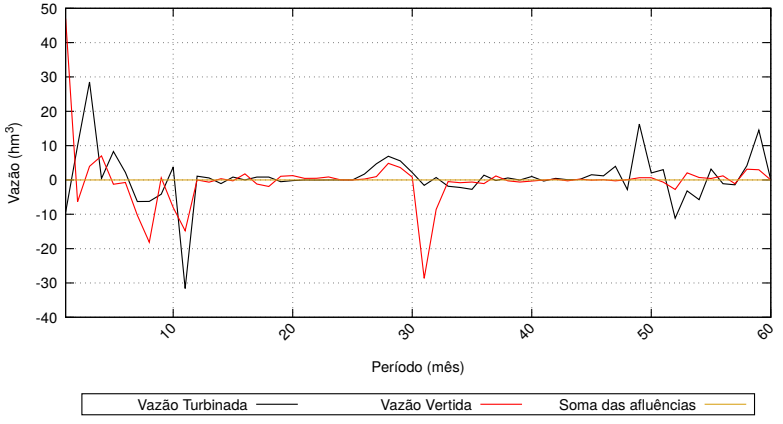
13.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



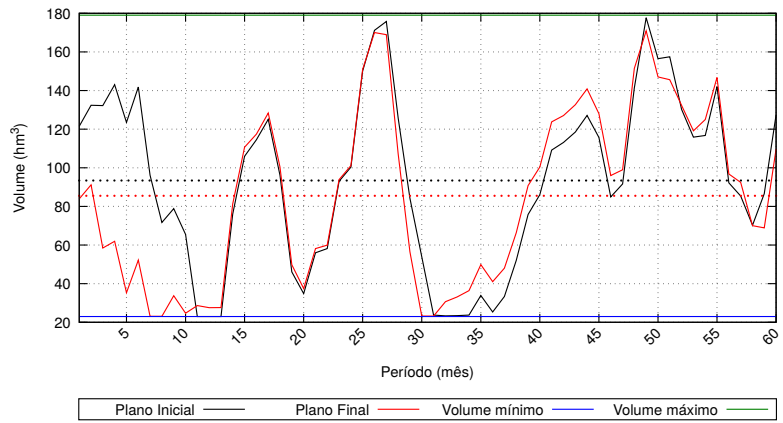
(a) CpMiPi

CpMiPi - Vazão - Diferença



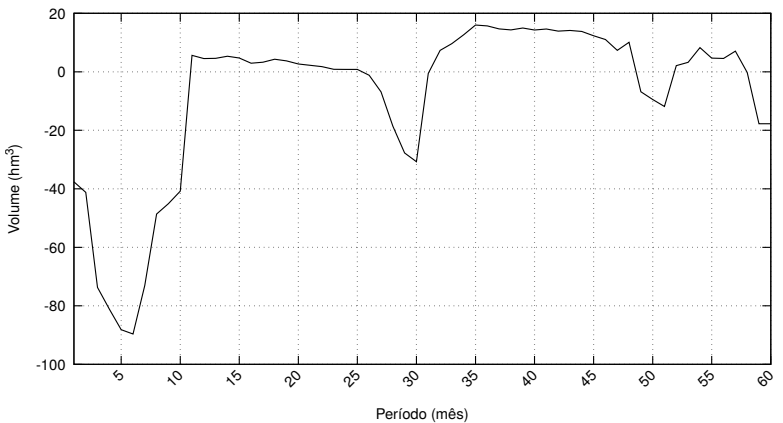
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



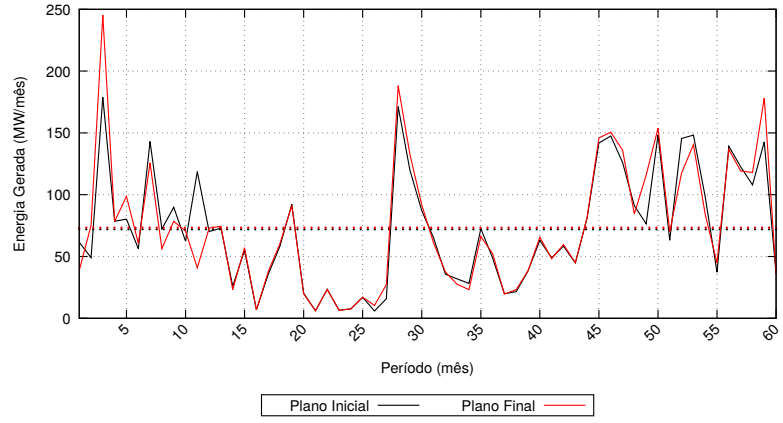
(a) CpMiPi

CpMiPi - Volume - Diferença



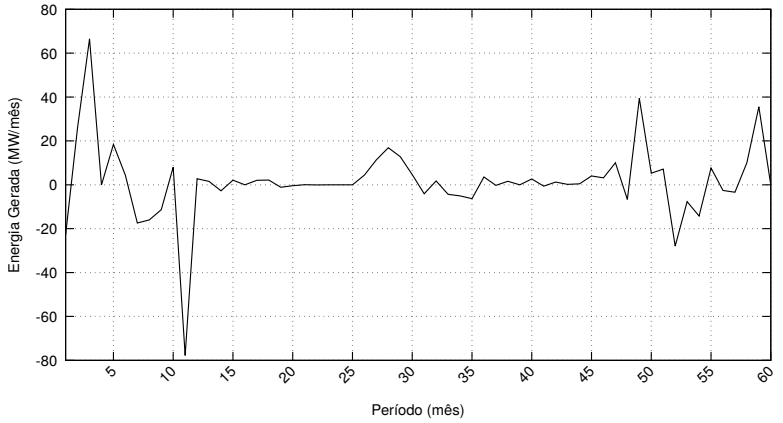
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

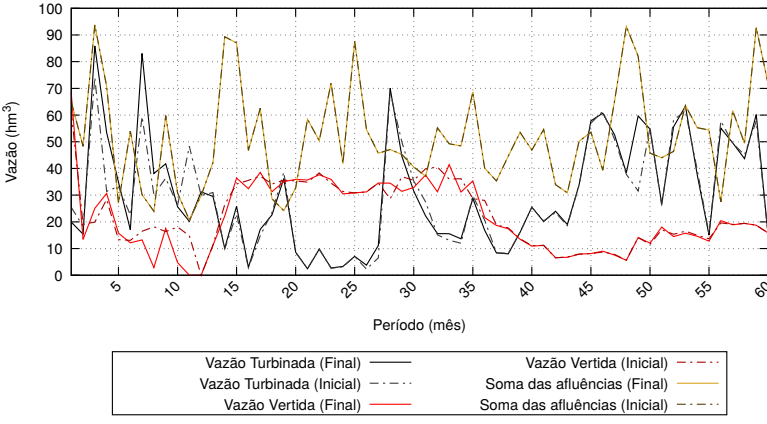
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

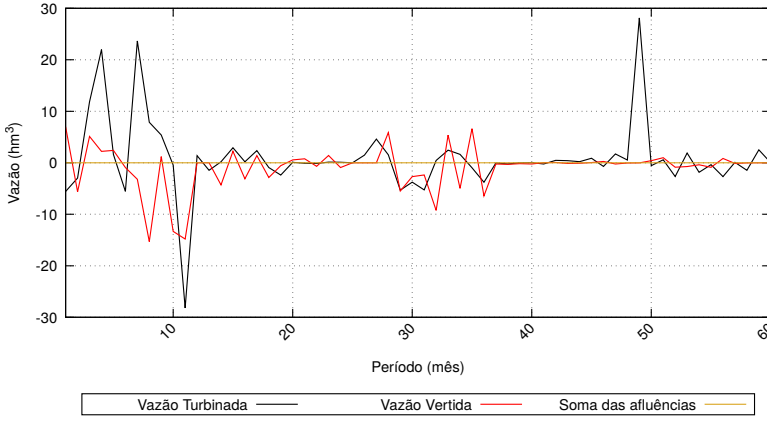
13.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



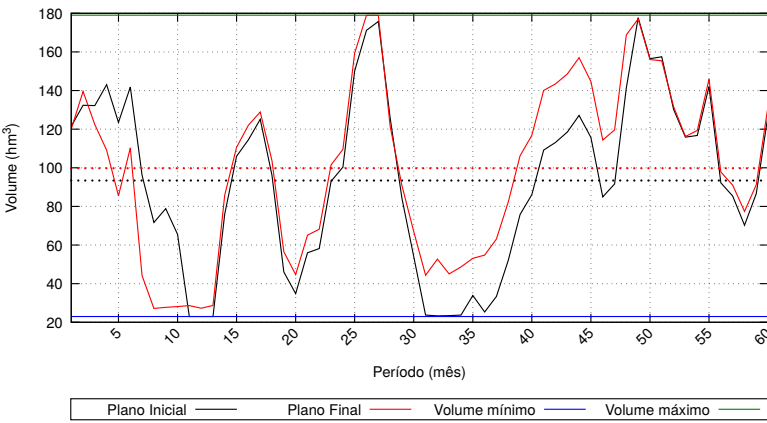
(a) SpPd

SpPd - Vazão - Diferença



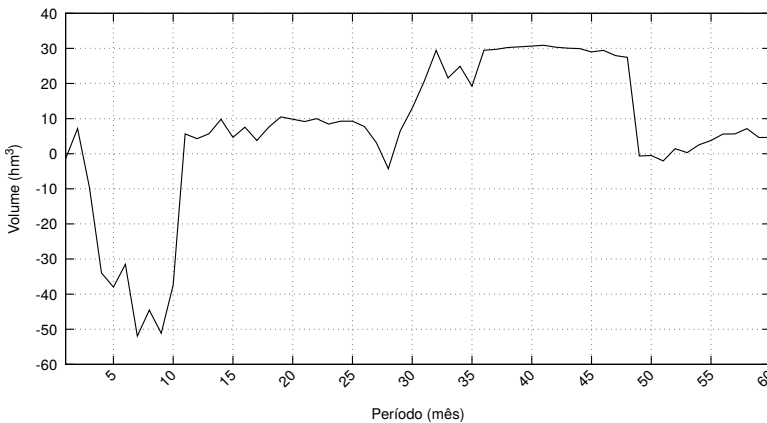
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



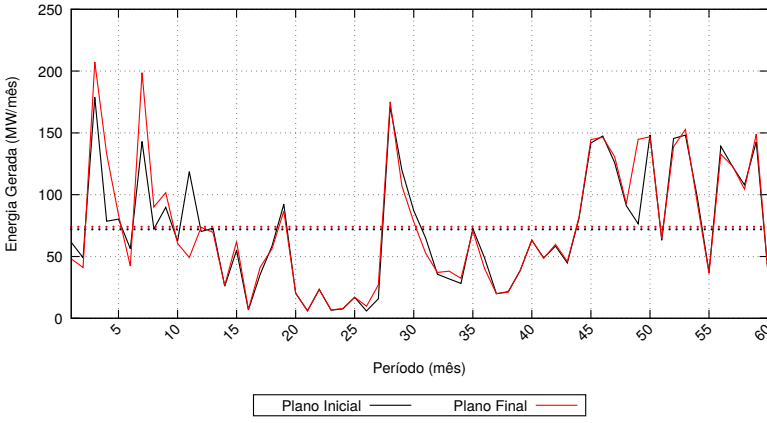
(a) SpPd

SpPd - Volume - Diferença



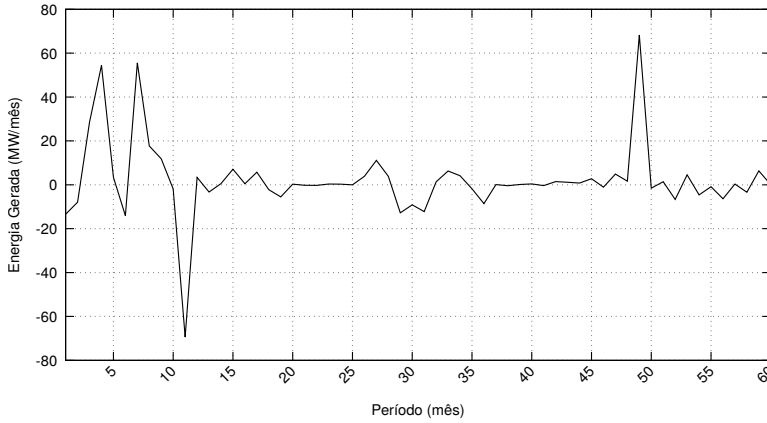
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

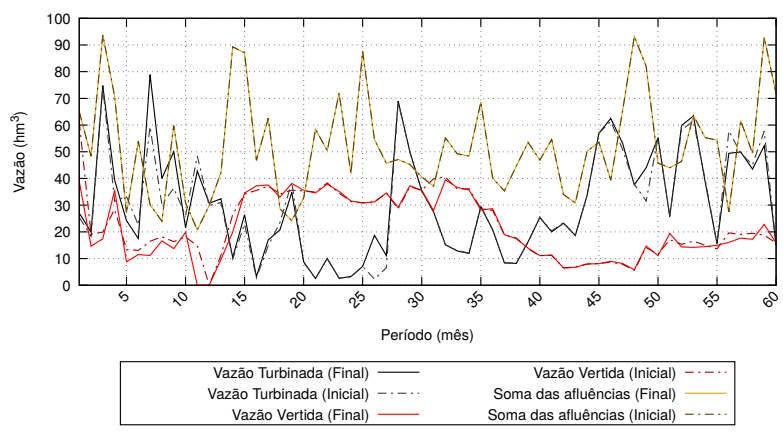
SpPd - Energia Gerada - Diferença



(b) SpPd

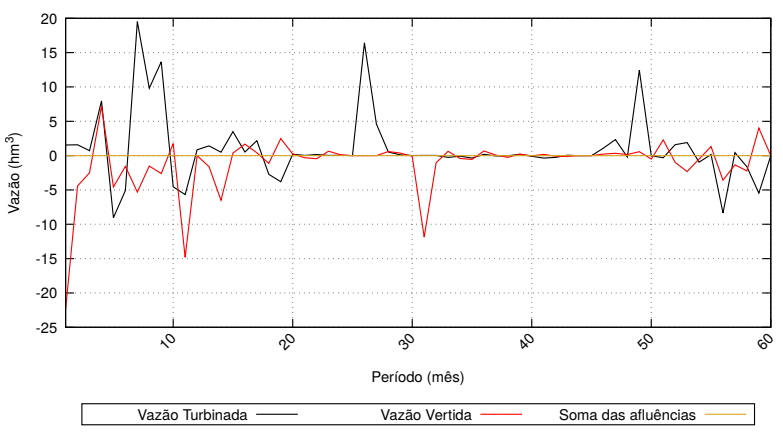
13.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



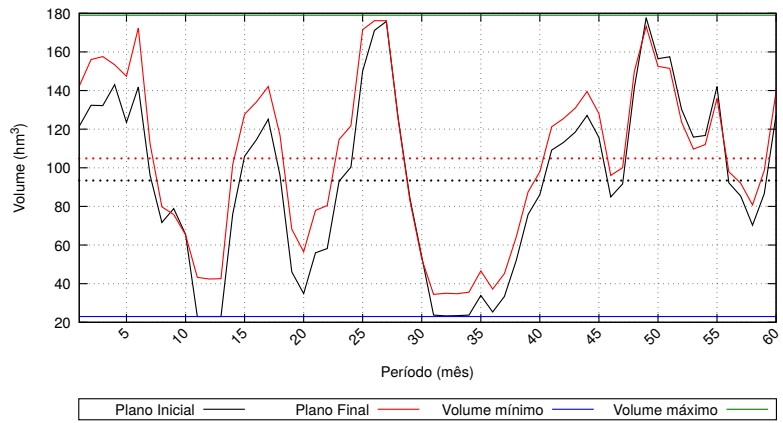
(a) SpPi

SpPi - Vazão - Diferença



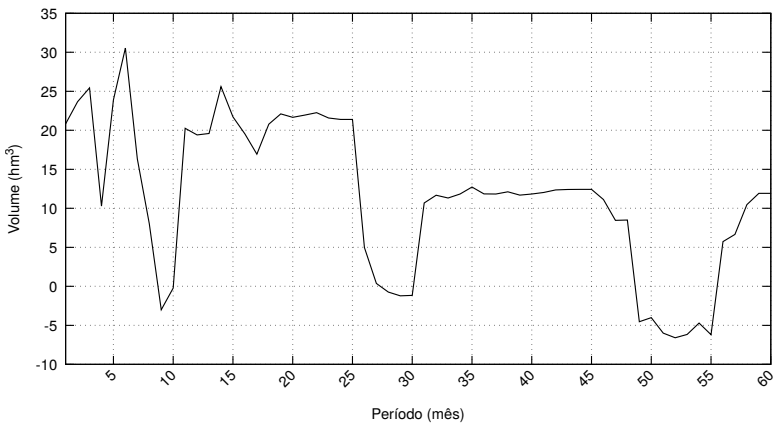
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



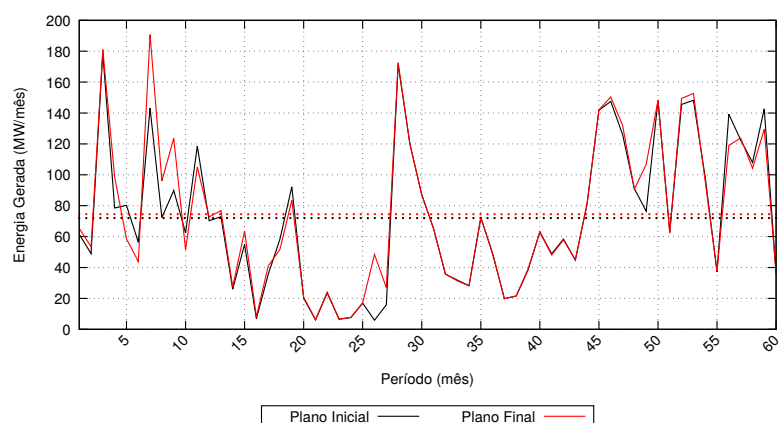
(a) SpPi

SpPi - Volume - Diferença



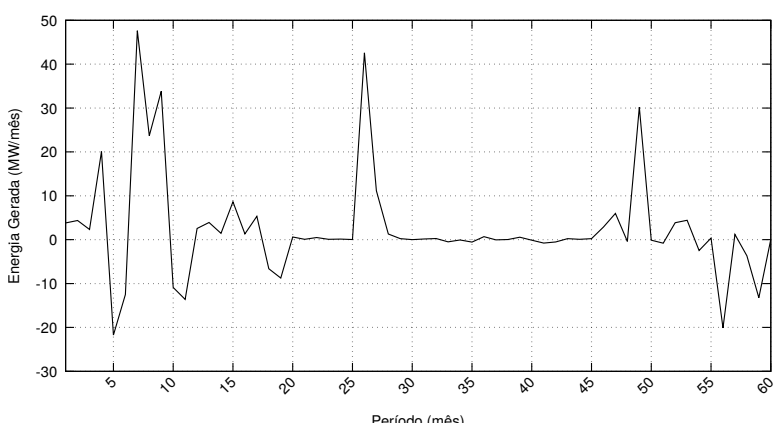
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

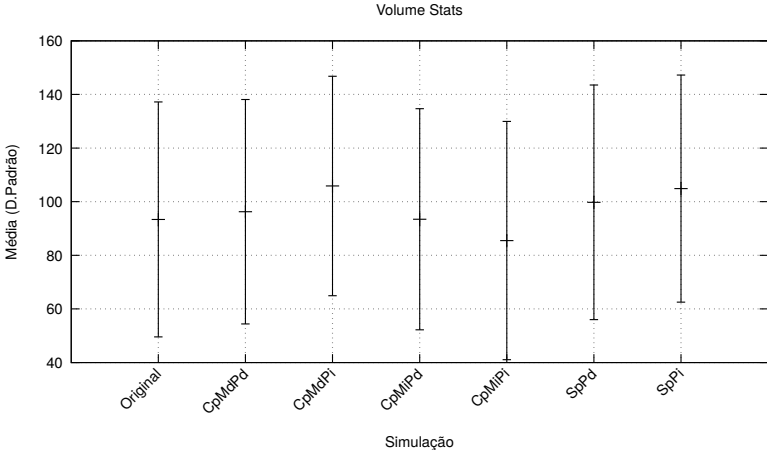


(b) SpPi

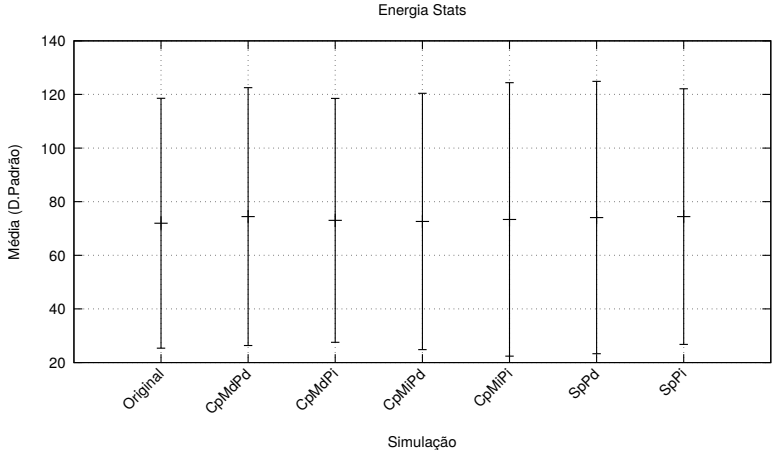
13.7 GPlan Stats

Tabela 18: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	93.39508	43.83670	71.97079	46.61329
CpMdPd	96.26257	41.86318	74.43213	48.09194
CpMdPi	105.86648	40.92489	73.03163	45.48976
CpMiPd	93.46279	41.23583	72.62789	47.81209
CpMiPi	85.50007	44.44256	73.39326	50.99989
SpPd	99.77899	43.76665	74.08902	50.80031
SpPi	104.89402	42.33681	74.46665	47.67682



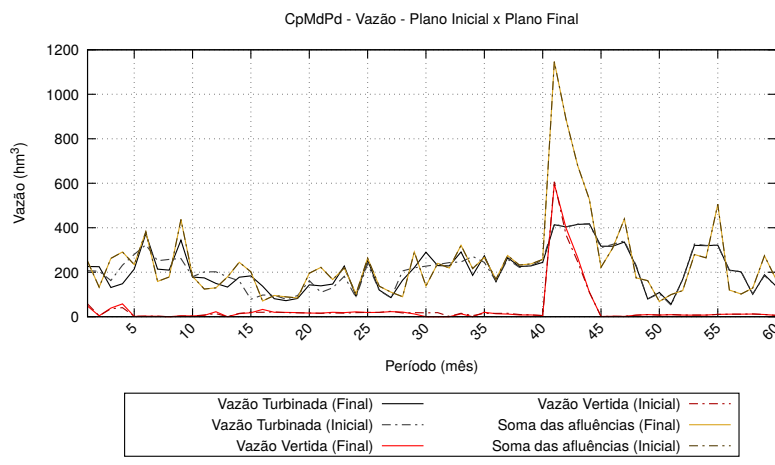
(a) Volume



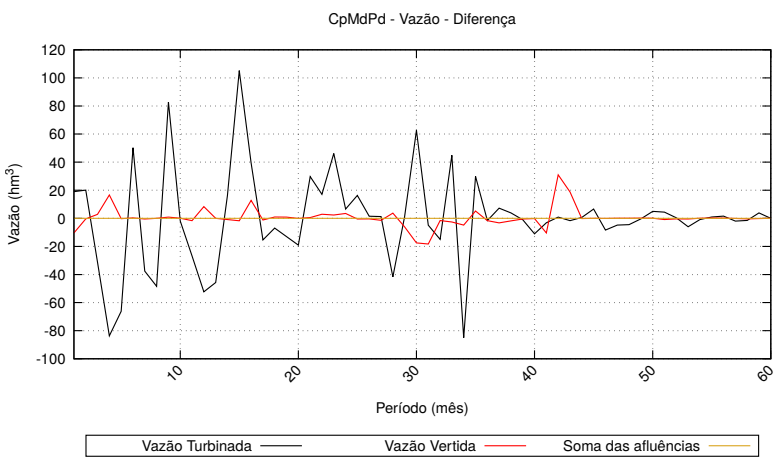
(b) Energia

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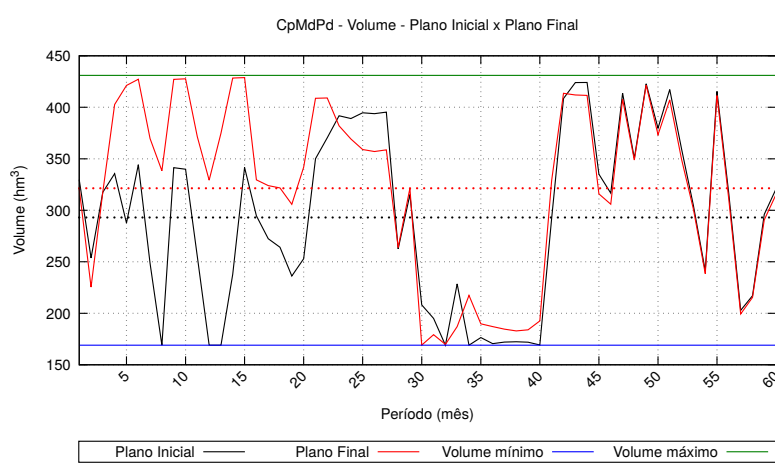
14.1 Resultados - CpMdPd



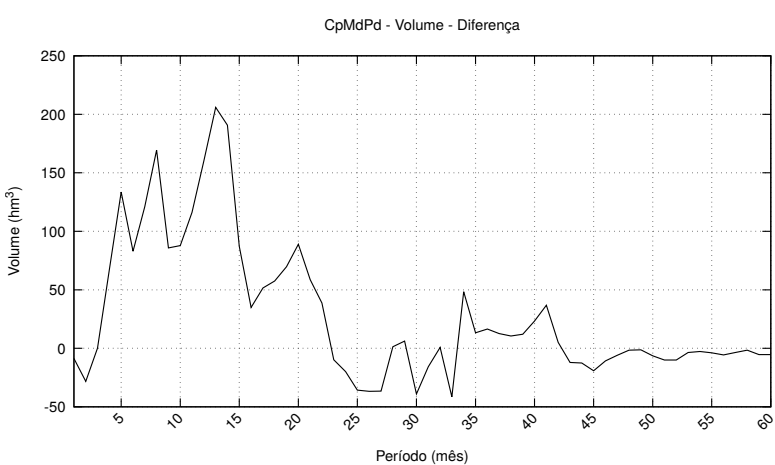
(a) CpMdPd



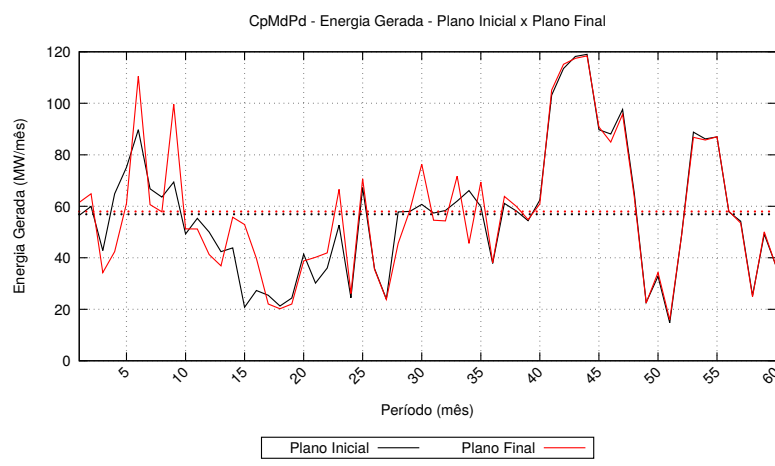
(b) CpMdPd



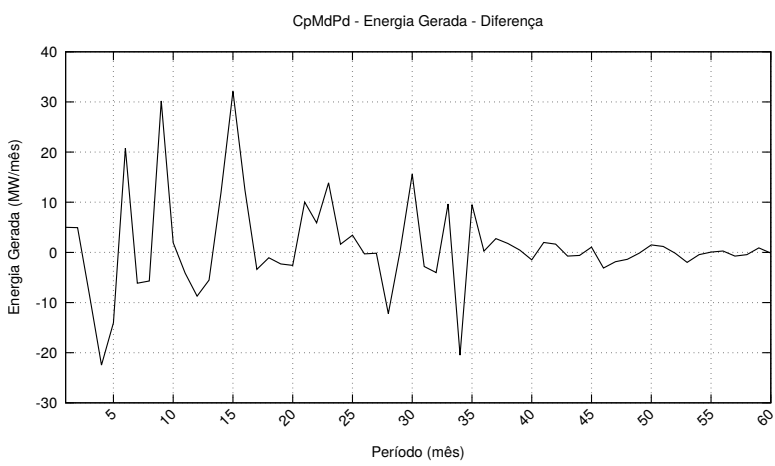
(a) CpMdPd



(b) CpMdPd



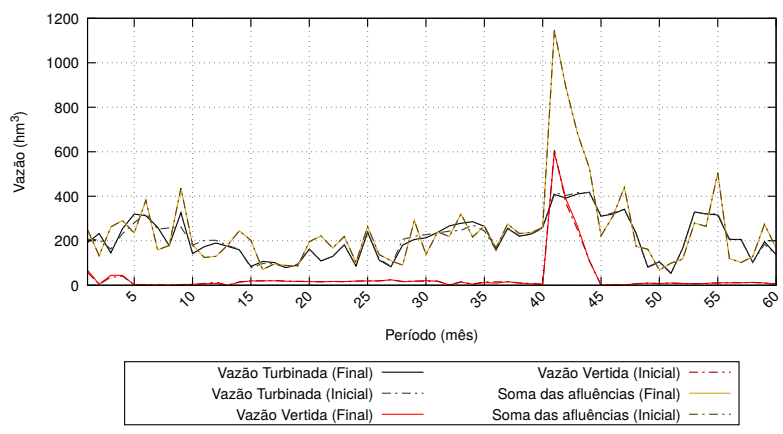
(a) CpMdPd



(b) CpMdPd

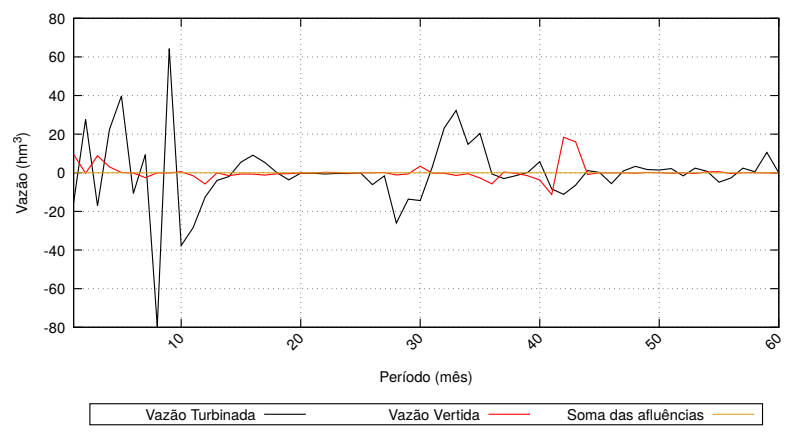
14.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



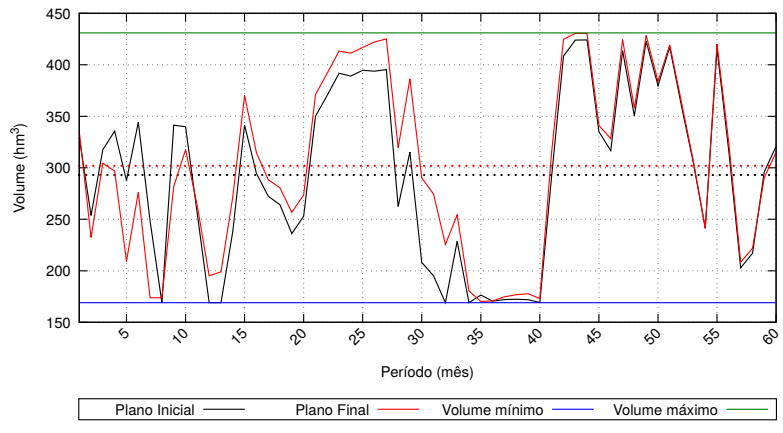
(a) CpMdPi

CpMdPi - Vazão - Diferença



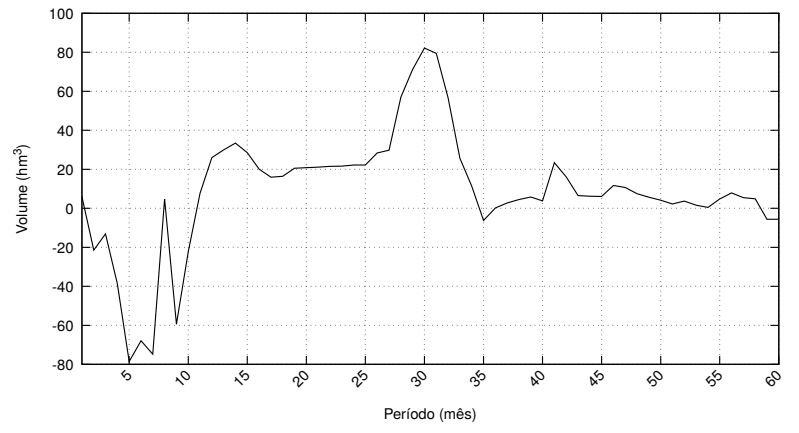
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



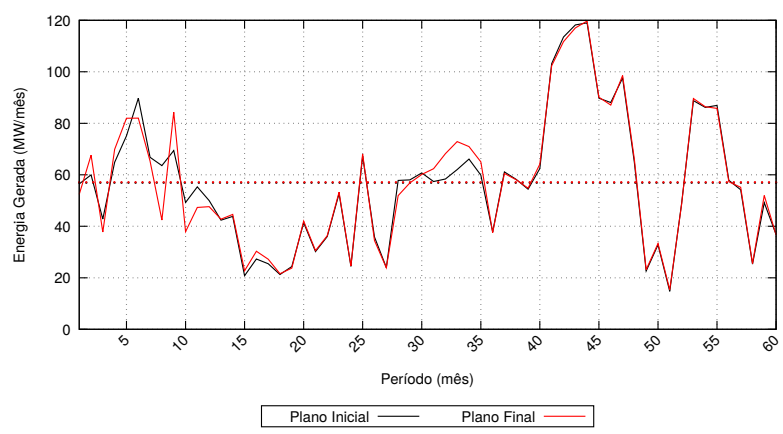
(a) CpMdPi

CpMdPi - Volume - Diferença



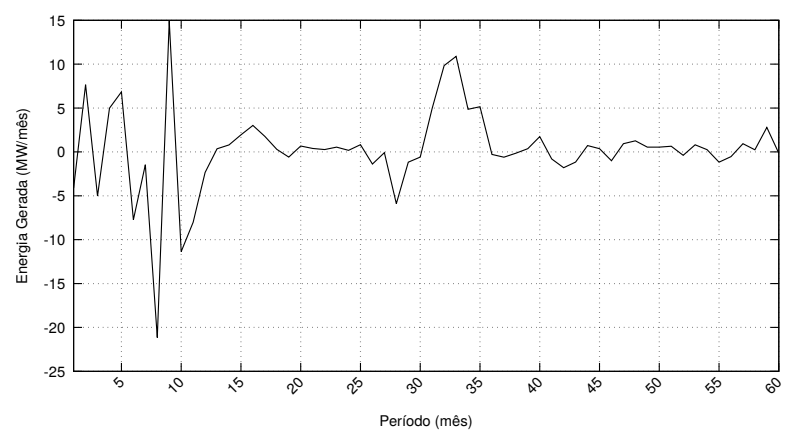
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

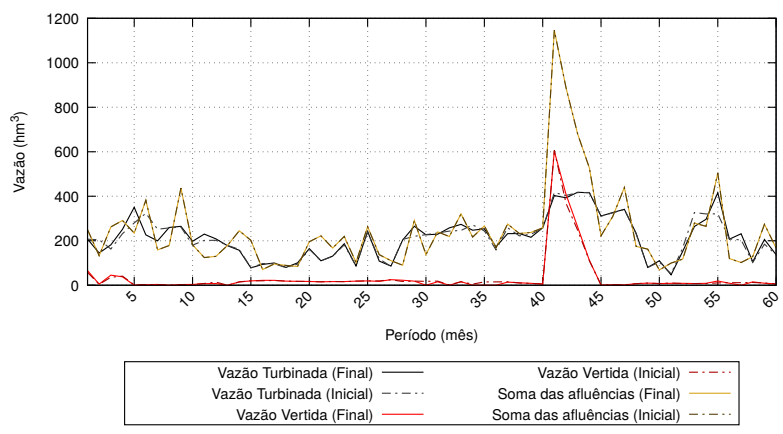
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

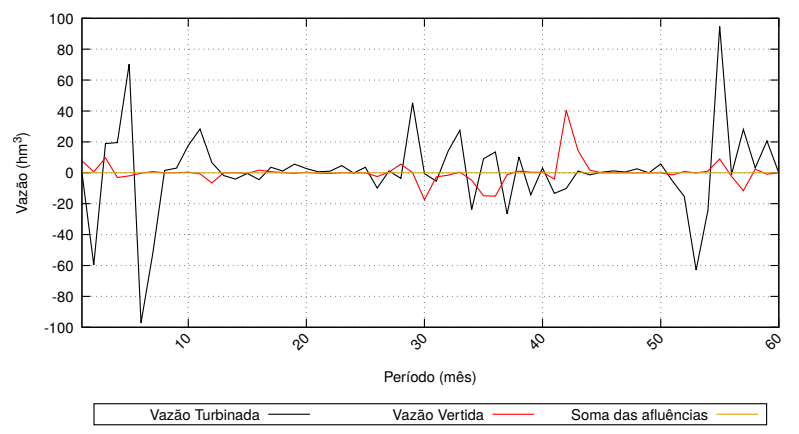
14.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



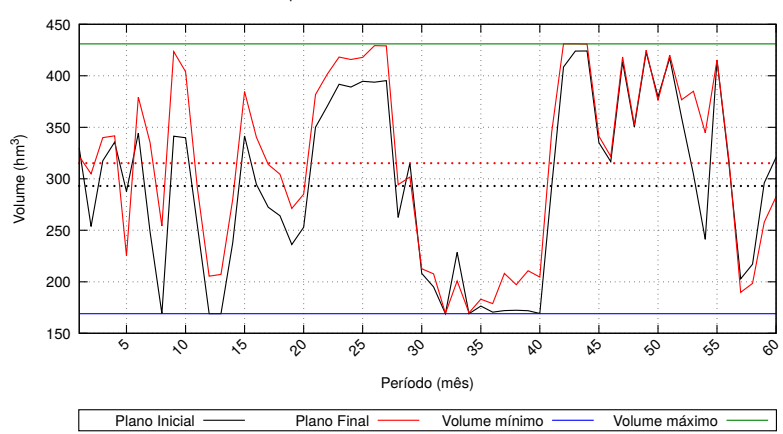
(a) CpMiPd

CpMiPd - Vazão - Diferença



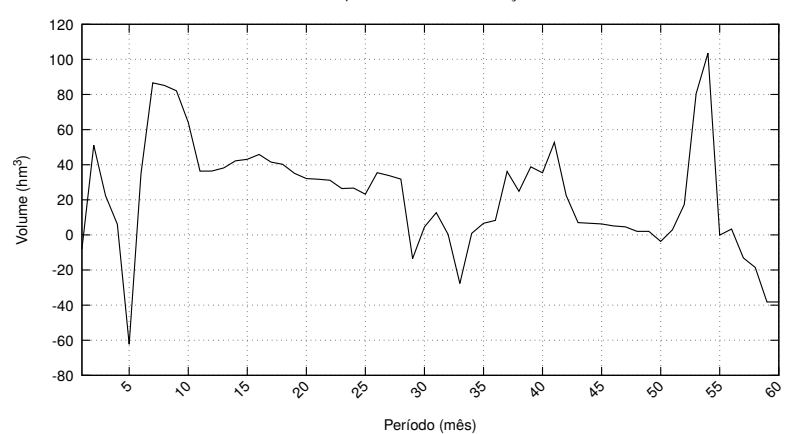
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



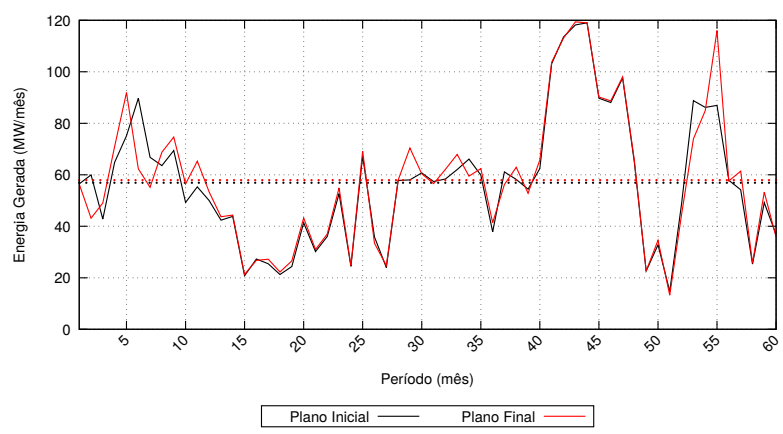
(a) CpMiPd

CpMiPd - Volume - Diferença



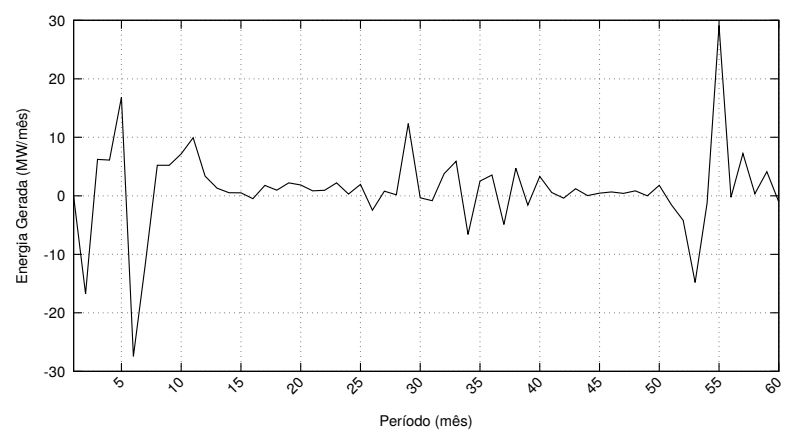
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

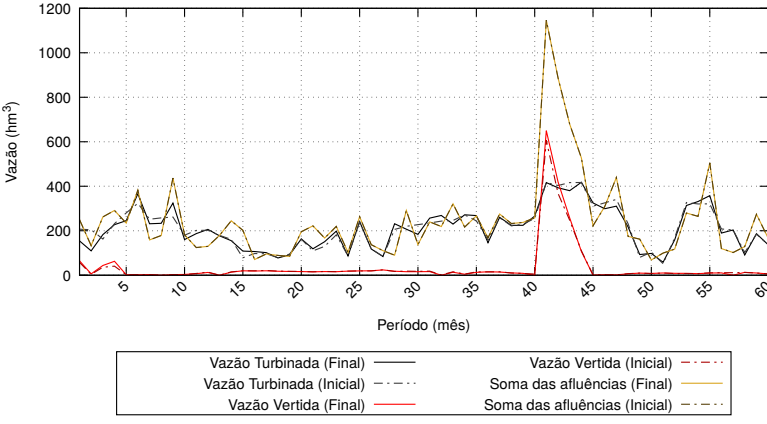
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

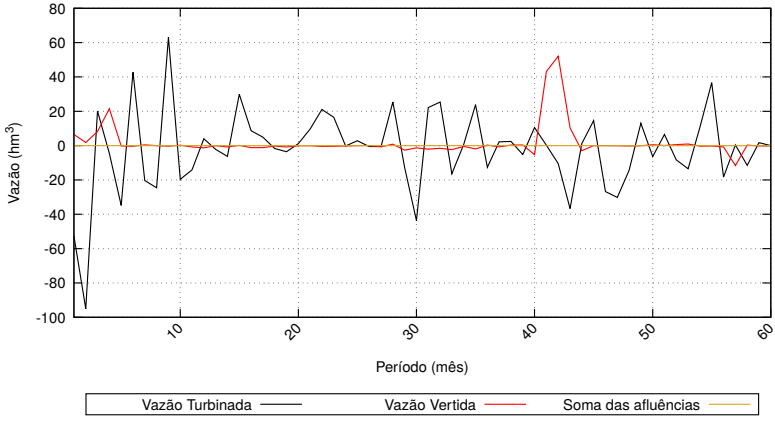
14.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



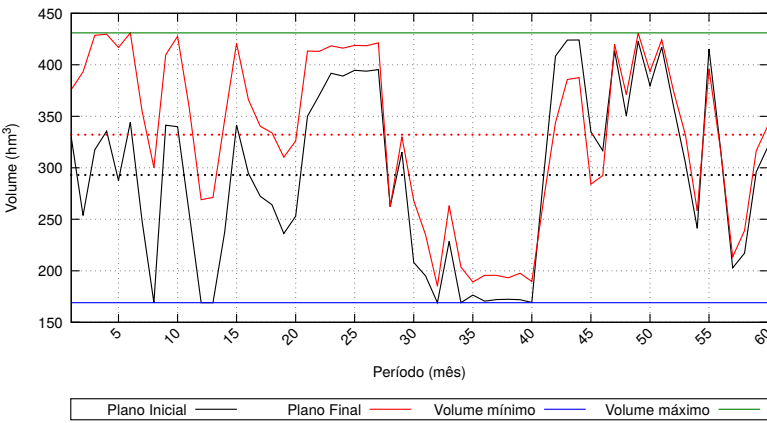
(a) CpMiPi

CpMiPi - Vazão - Diferença



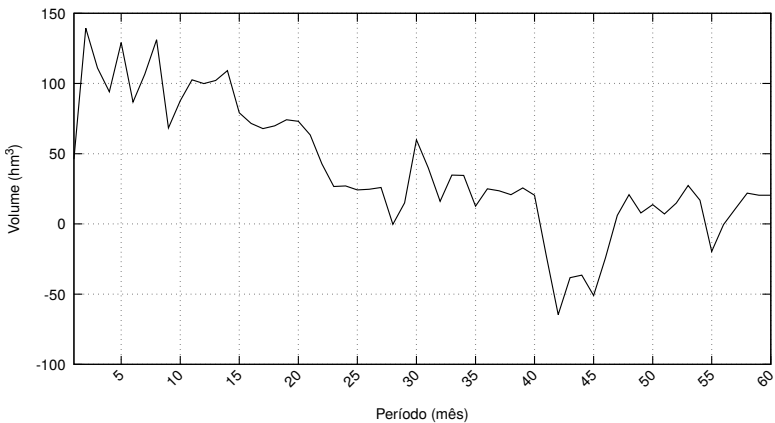
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



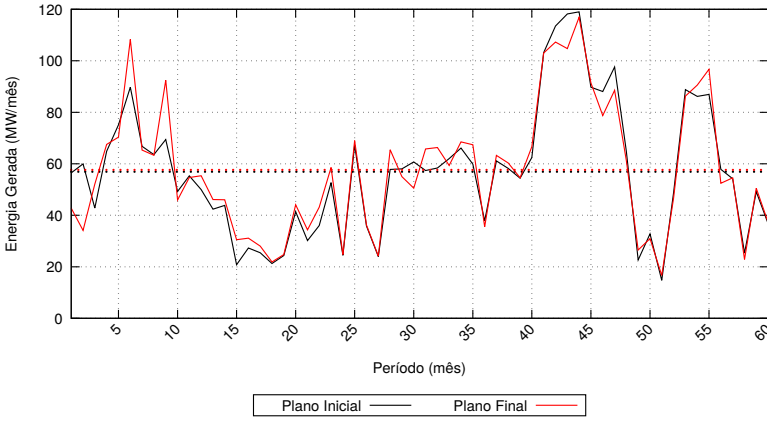
(a) CpMiPi

CpMiPi - Volume - Diferença



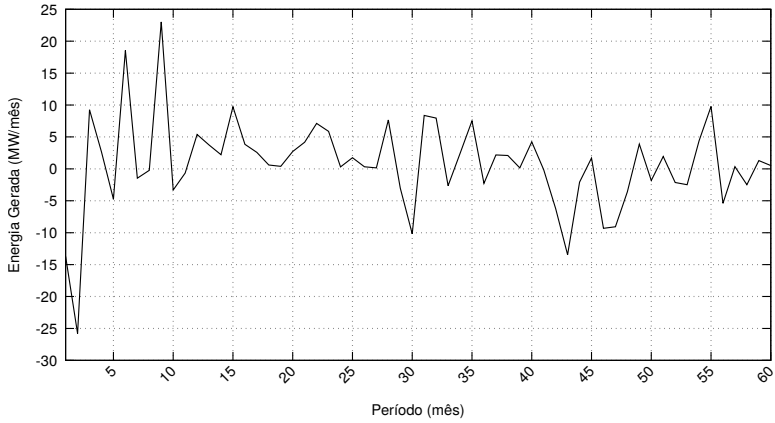
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

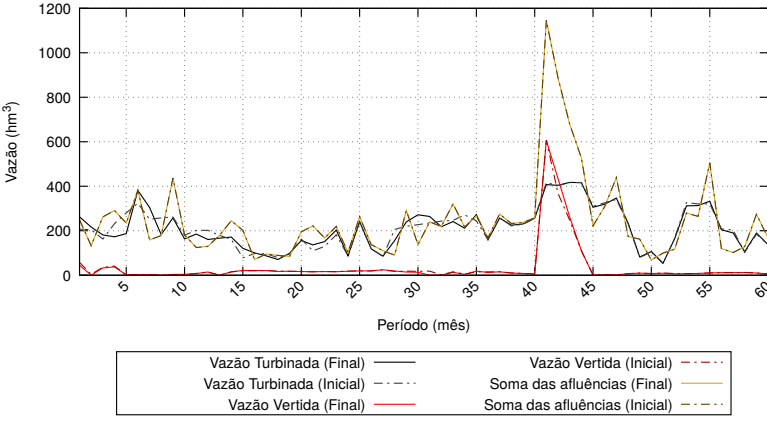
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

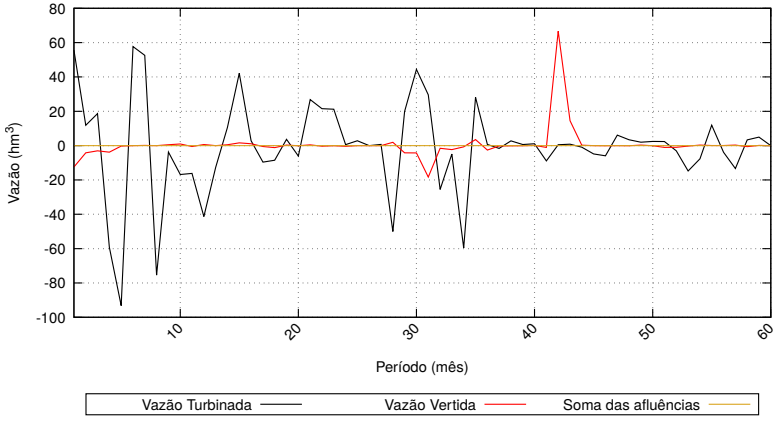
14.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



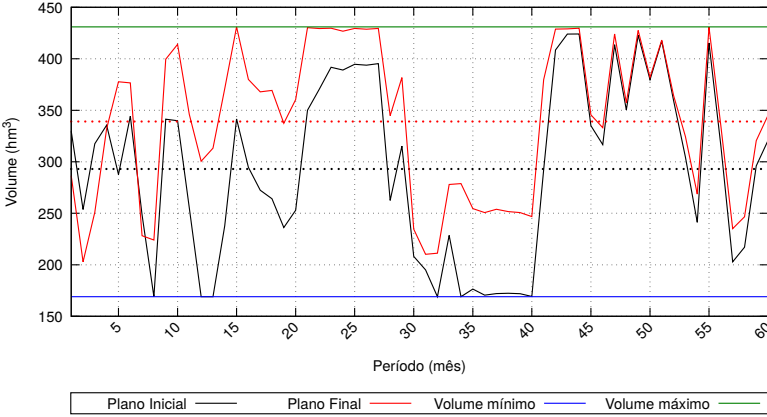
(a) SpPd

SpPd - Vazão - Diferença



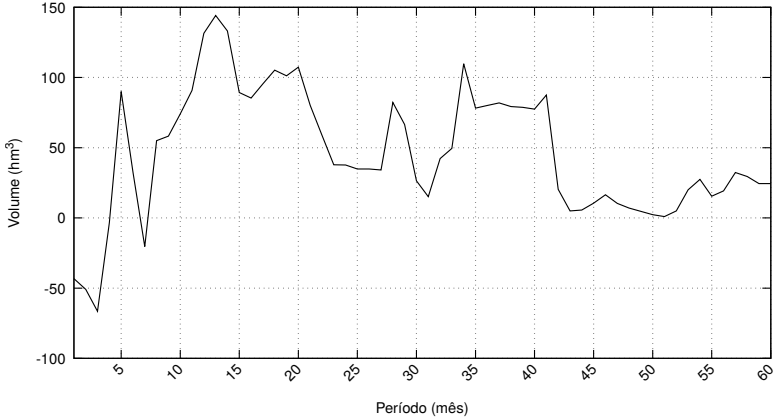
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



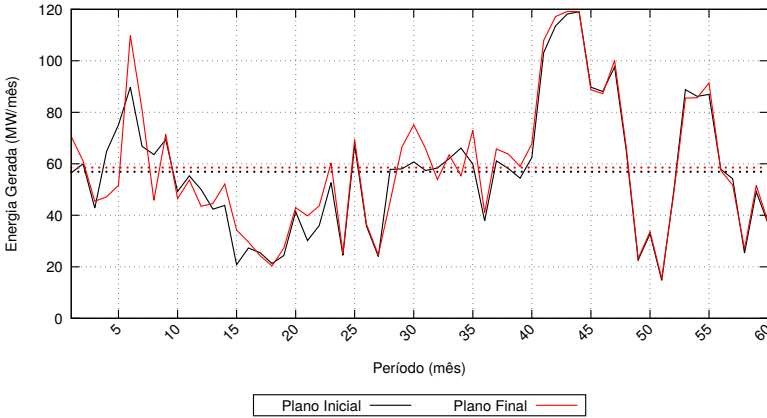
(a) SpPd

SpPd - Volume - Diferença



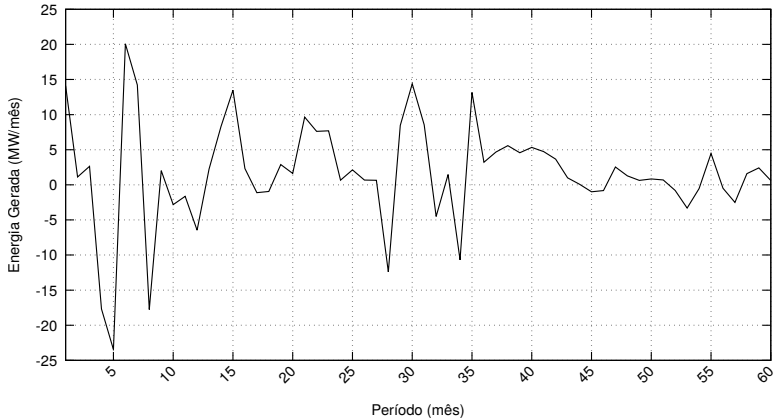
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



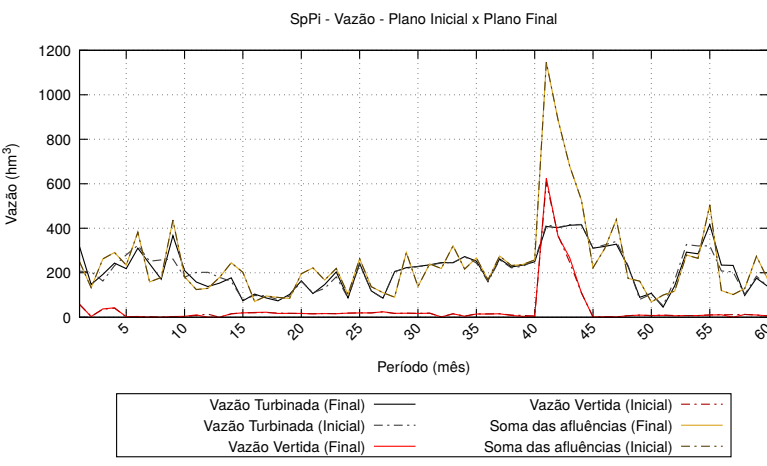
(a) SpPd

SpPd - Energia Gerada - Diferença

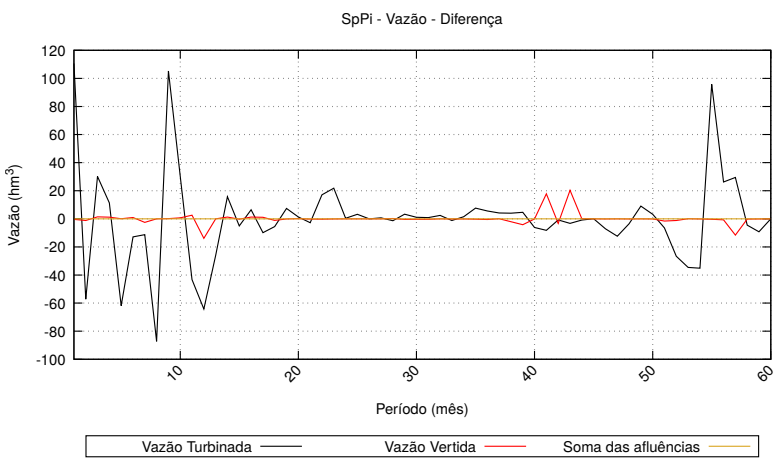


(b) SpPd

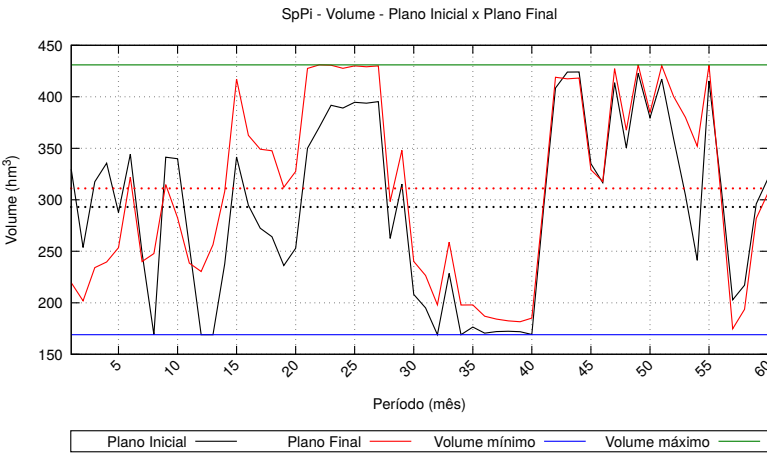
14.6 Resultados - SpPi



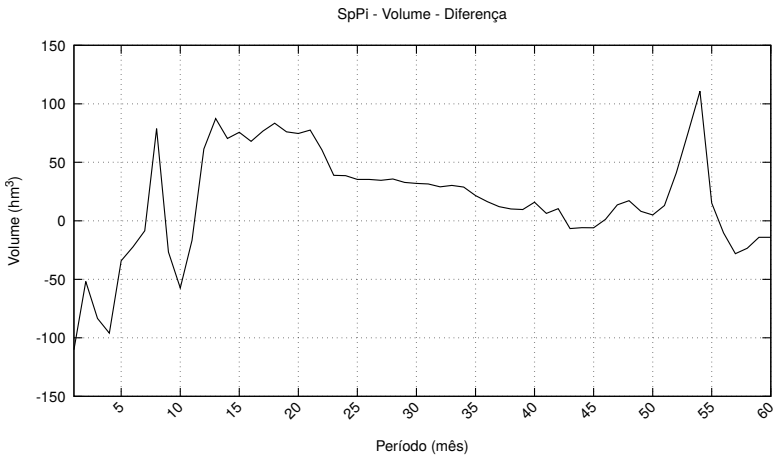
(a) SpPi



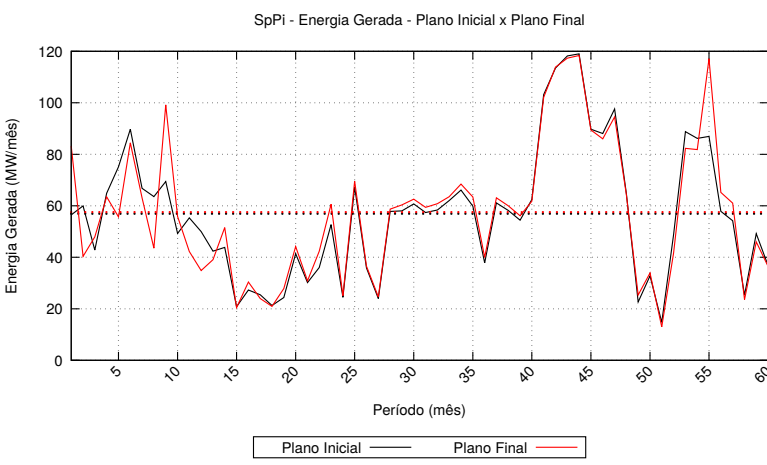
(b) SpPi



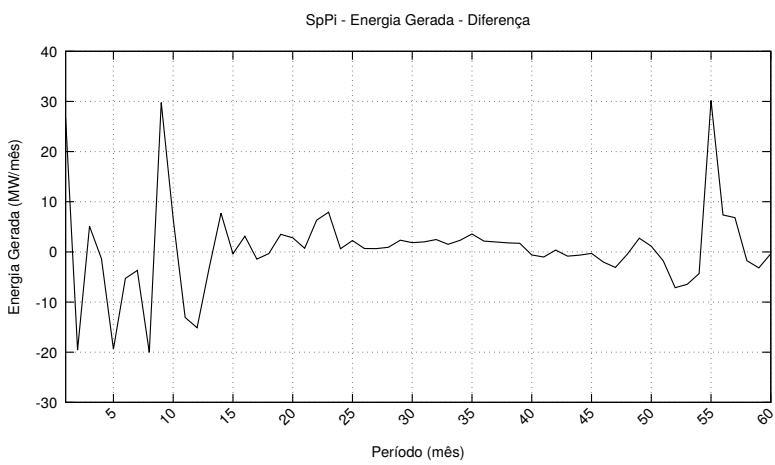
(a) SpPi



(b) SpPi



(a) SpPi

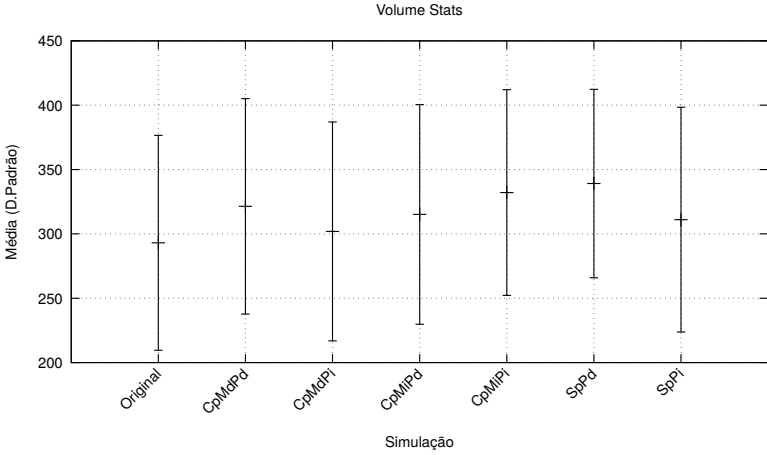


(b) SpPi

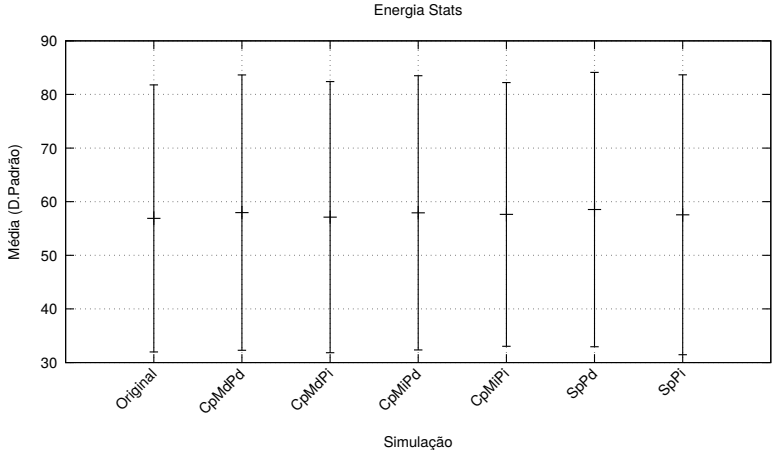
14.7 GPlan Stats

Tabela 19: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	293.04035	83.53678	56.88461	24.89777
CpMdPd	321.40014	83.74709	57.97424	25.67800
CpMdPi	301.92435	85.02896	57.12732	25.28632
CpMiPd	315.13242	85.34647	57.92987	25.57306
CpMiPi	332.10148	79.94129	57.62771	24.59077
SpPd	339.10542	73.25554	58.53635	25.58446
SpPi	311.05837	87.33679	57.56202	26.10316

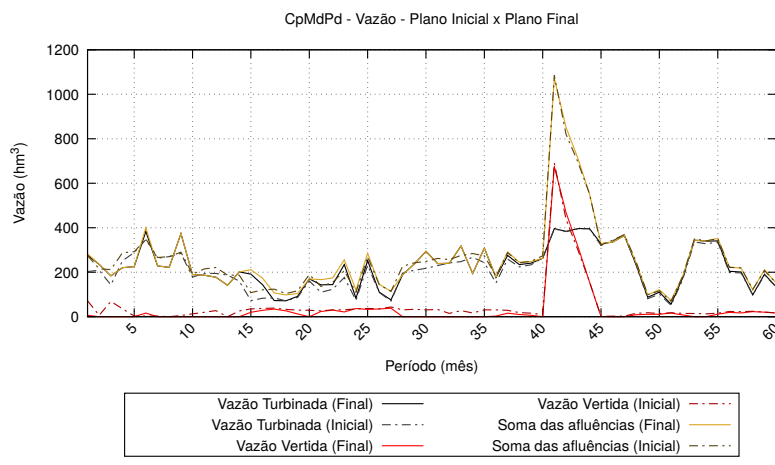


(a) Volume

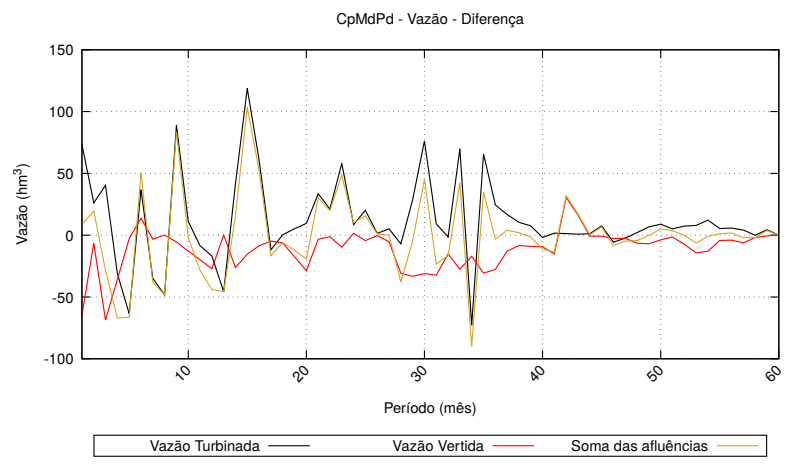


(b) Energia

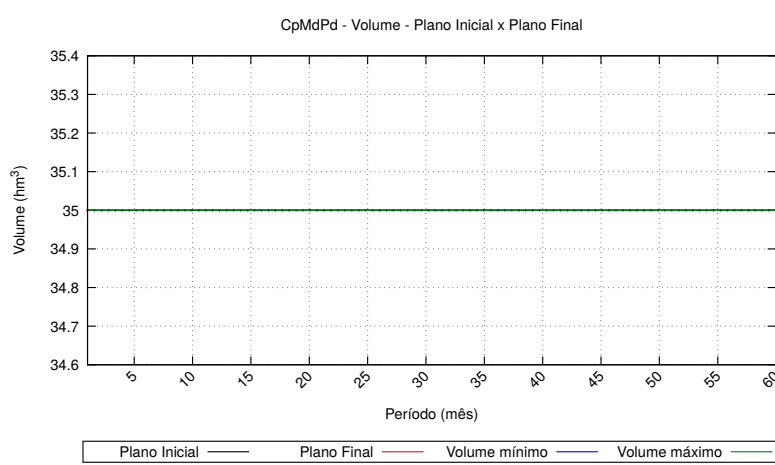
15.1 Resultados - CpMdPd



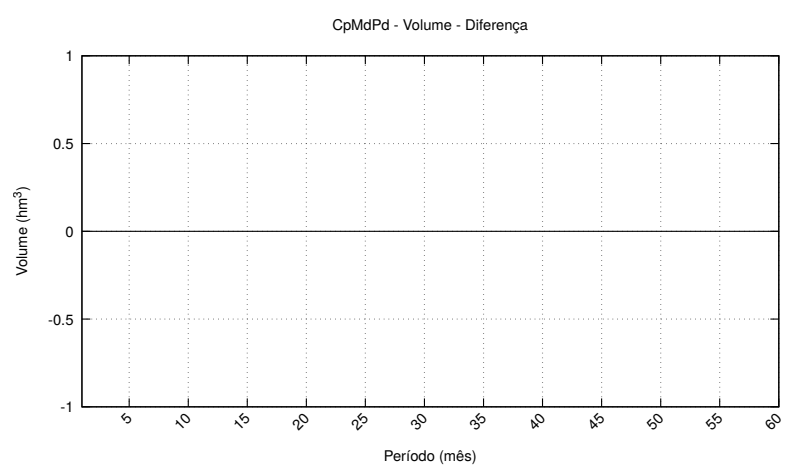
(a) CpMdPd



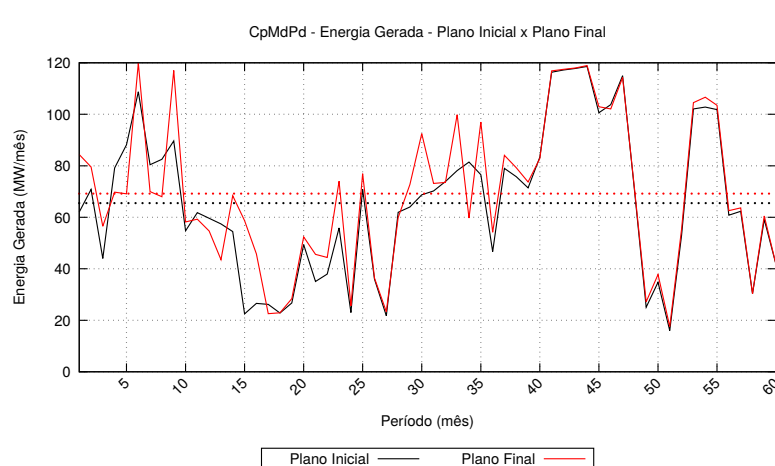
(b) CpMdPd



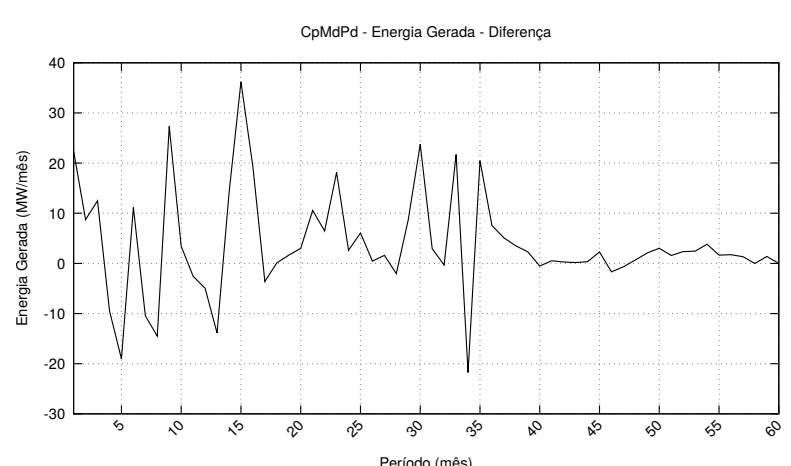
(a) CpMdPd



(b) CpMdPd



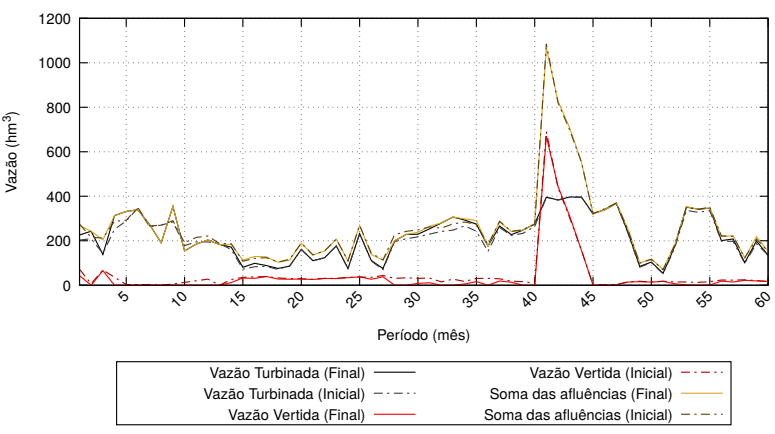
(a) CpMdPd



(b) CpMdPd

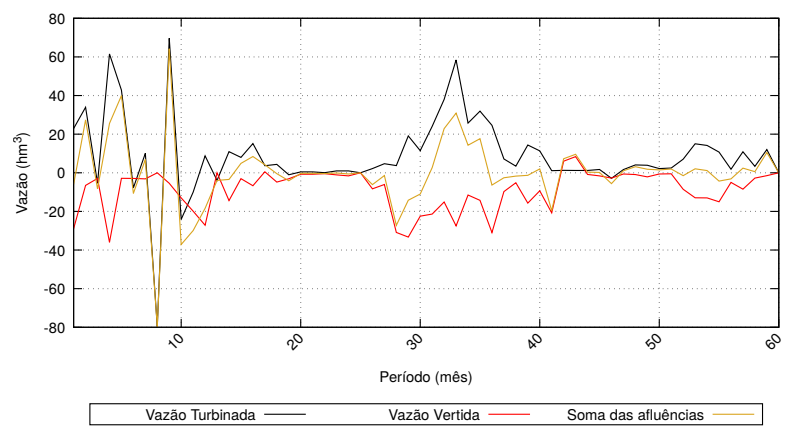
15.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



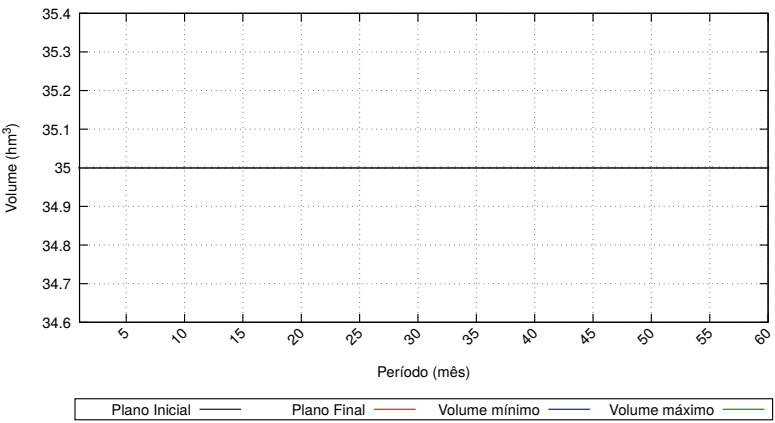
(a) CpMdPi

CpMdPi - Vazão - Diferença



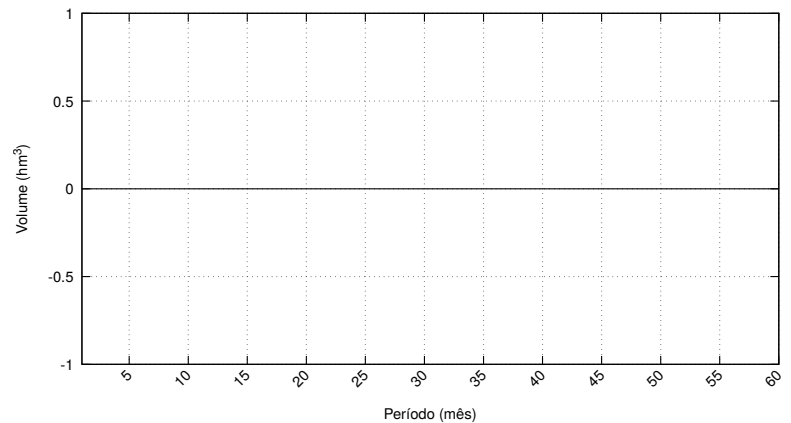
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



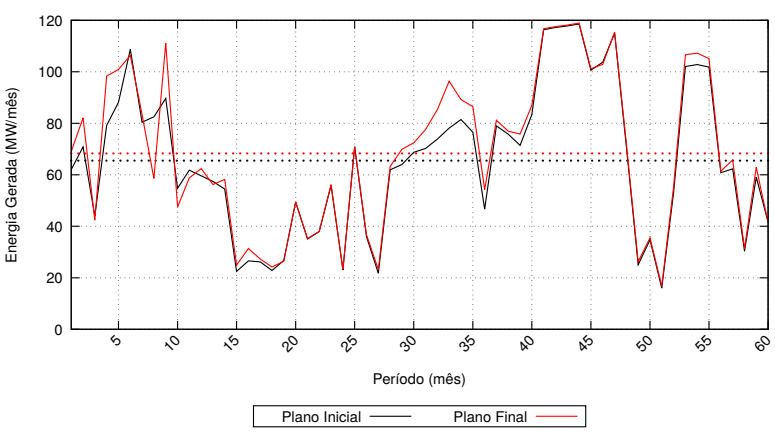
(a) CpMdPi

CpMdPi - Volume - Diferença



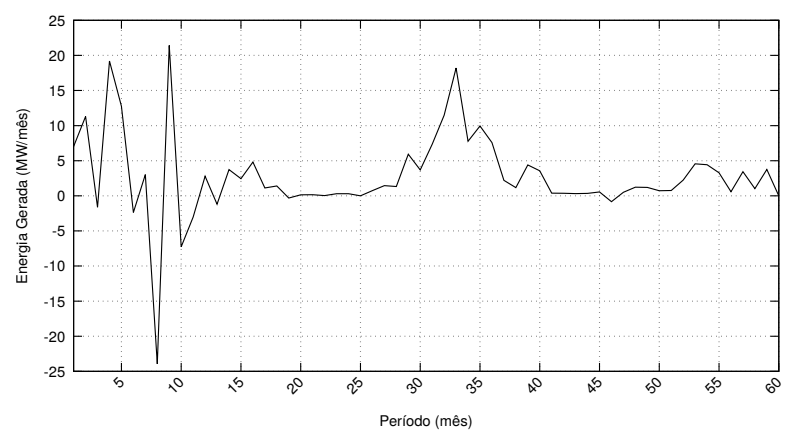
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

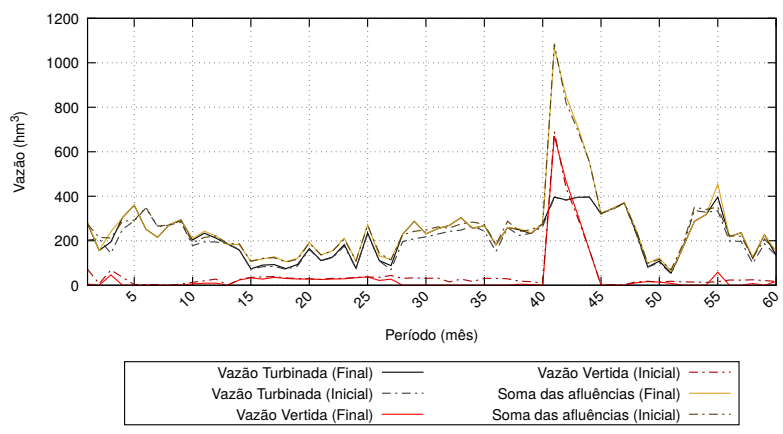
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

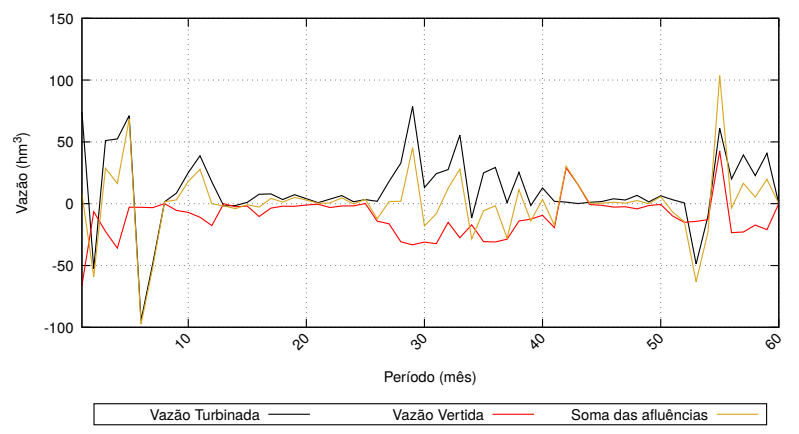
15.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



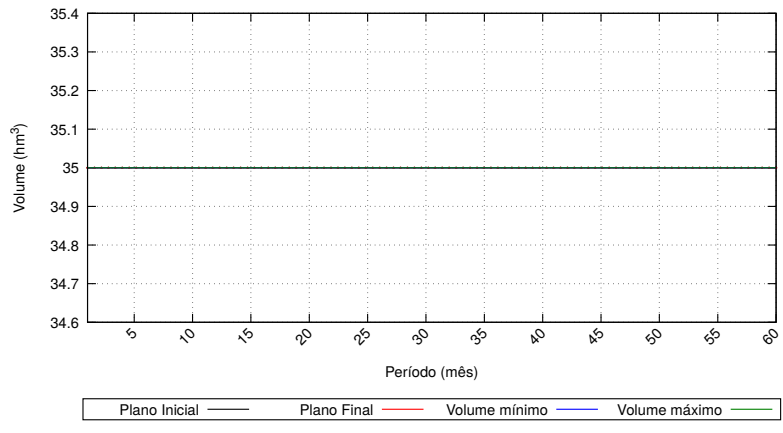
(a) CpMiPd

CpMiPd - Vazão - Diferença



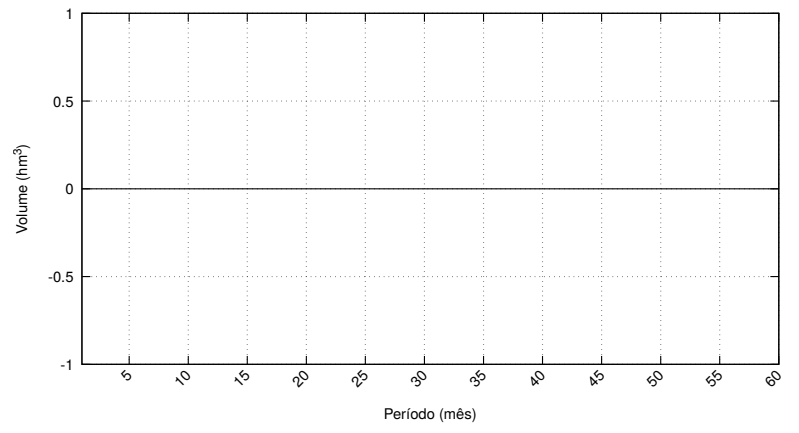
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



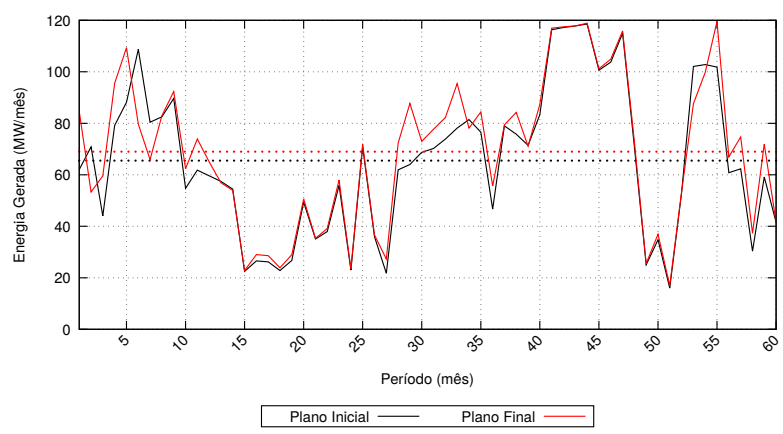
(a) CpMiPd

CpMiPd - Volume - Diferença



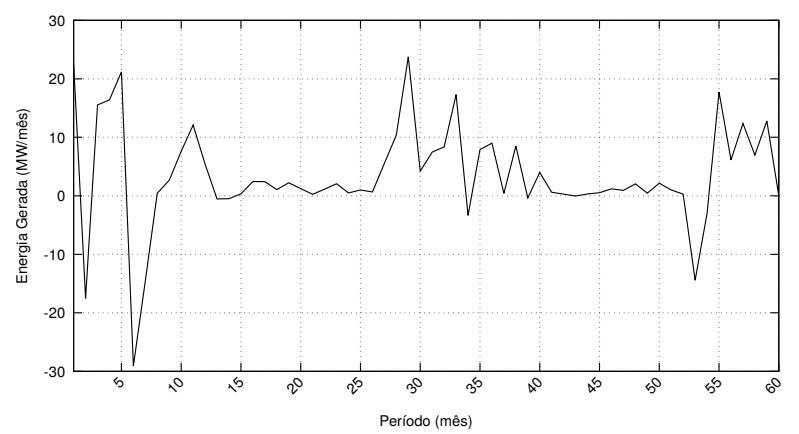
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

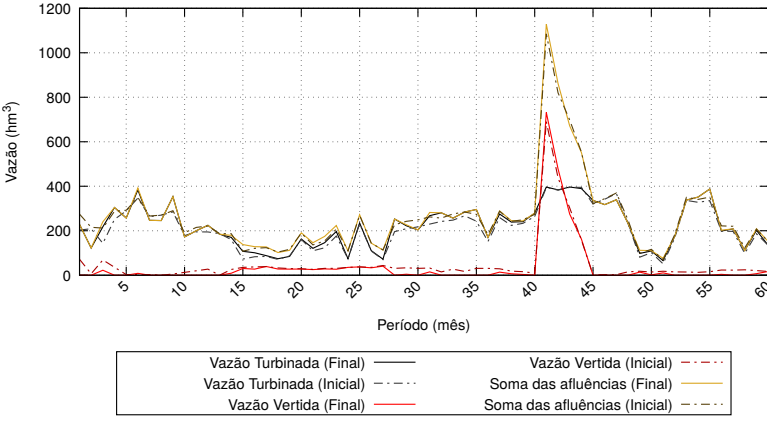
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

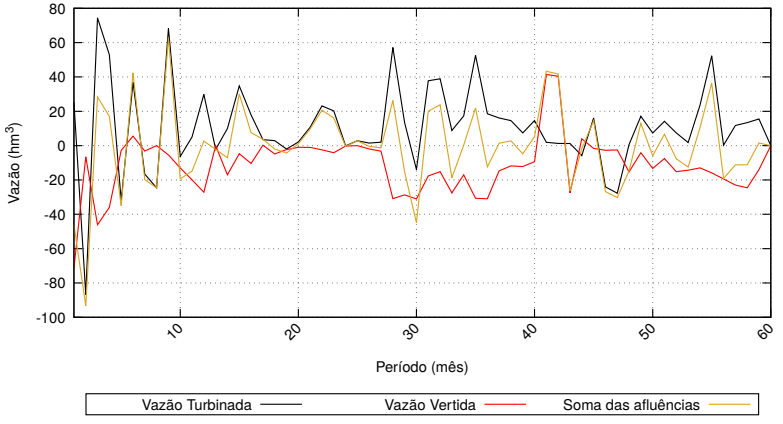
15.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



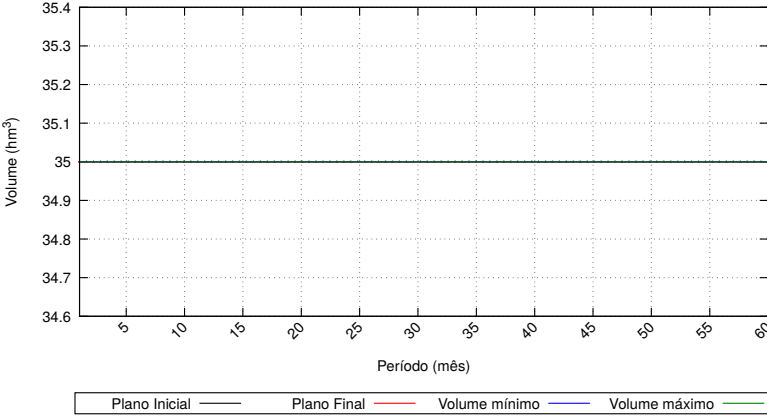
(a) CpMiPi

CpMiPi - Vazão - Diferença



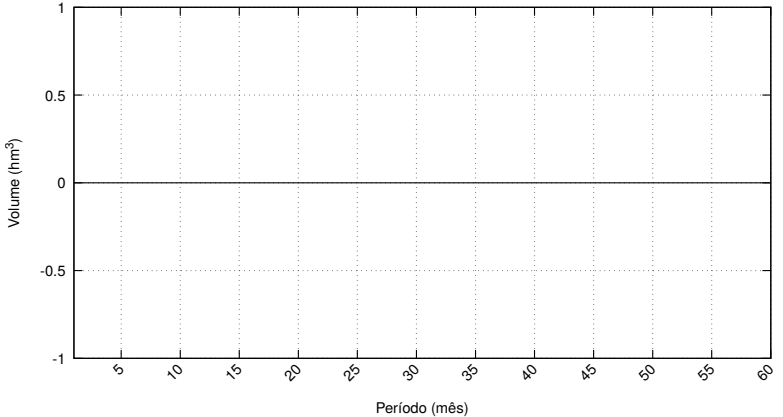
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



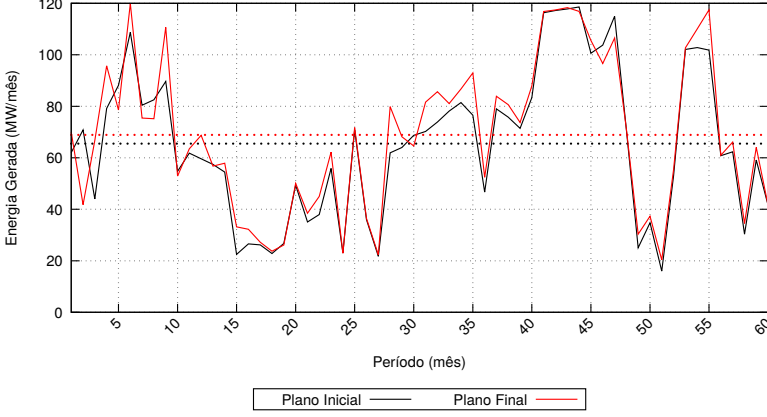
(a) CpMiPi

CpMiPi - Volume - Diferença



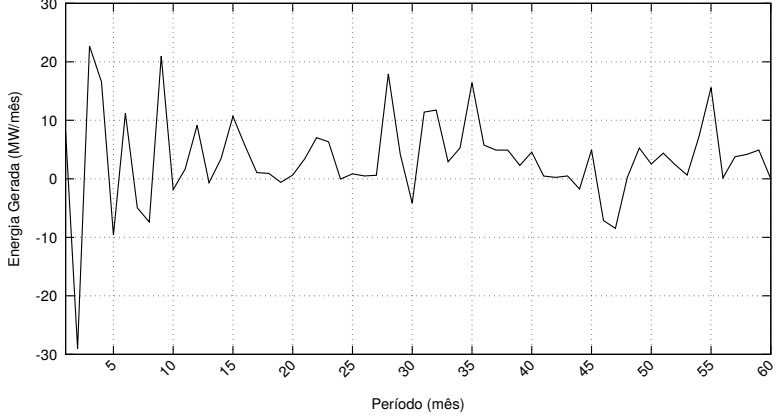
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

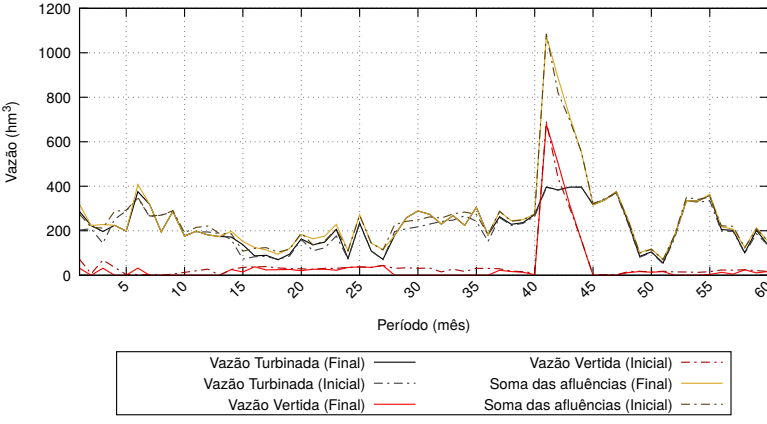
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

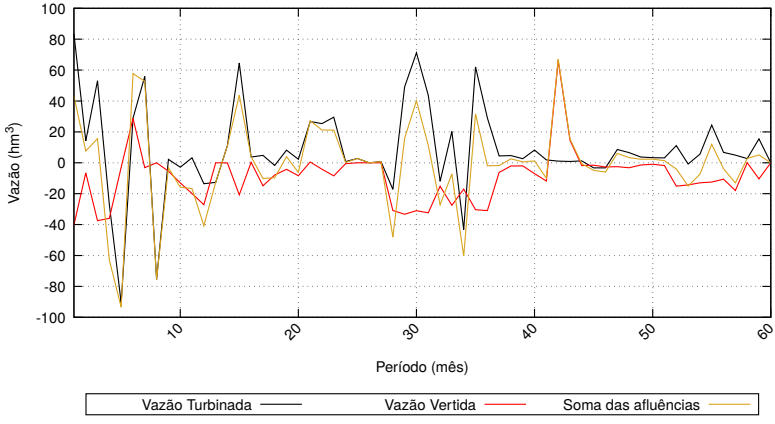
15.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



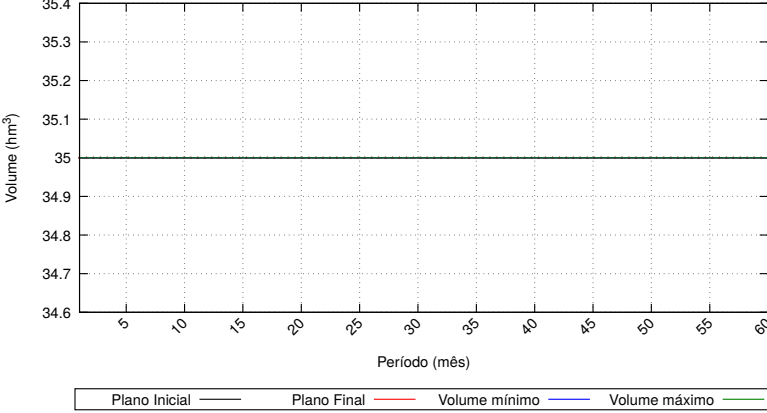
(a) SpPd

SpPd - Vazão - Diferença



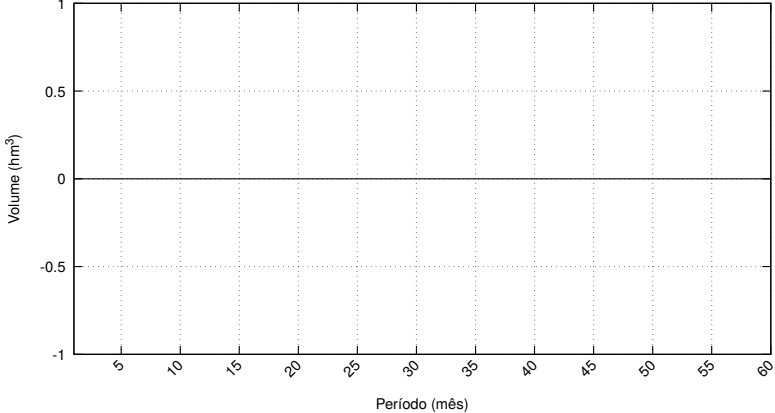
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



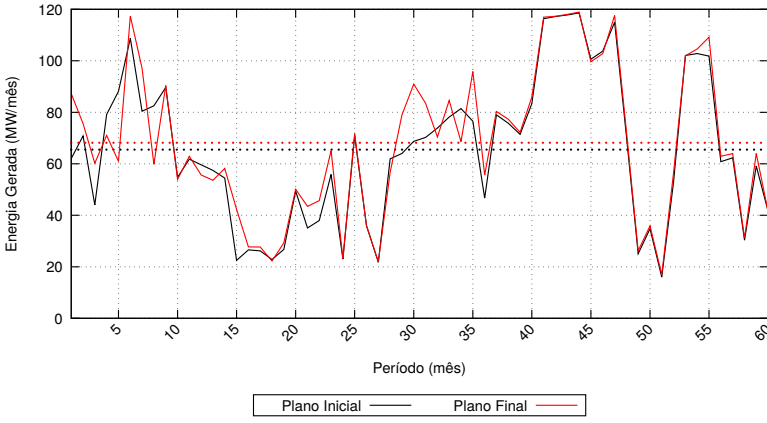
(a) SpPd

SpPd - Volume - Diferença



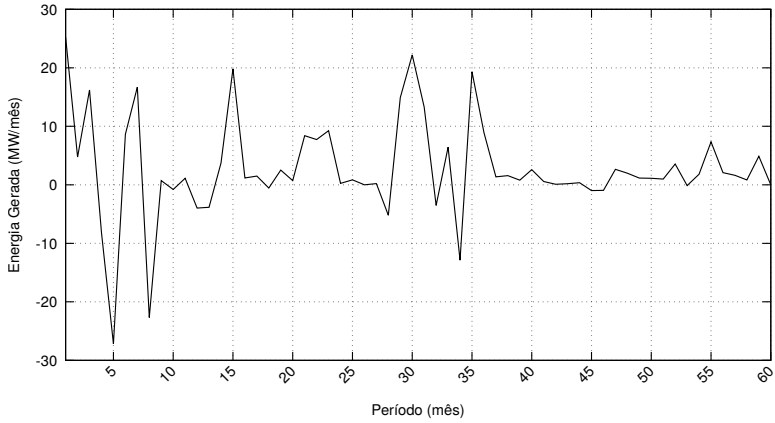
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



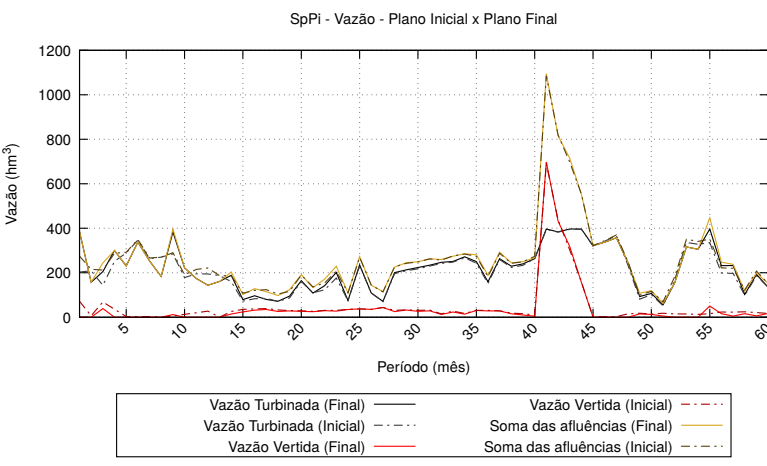
(a) SpPd

SpPd - Energia Gerada - Diferença

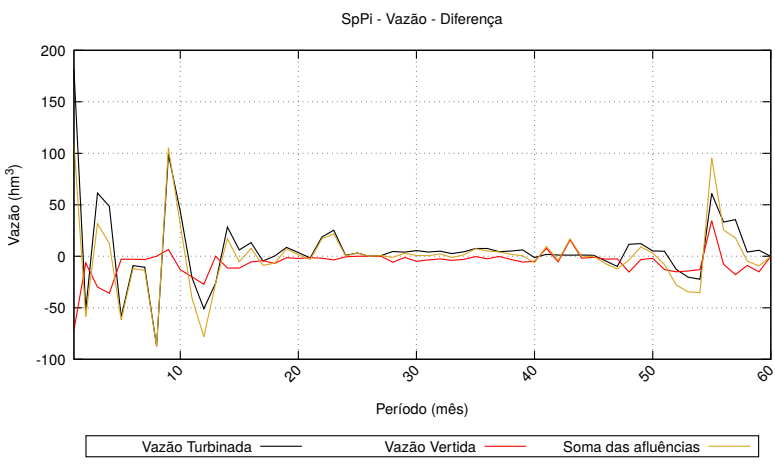


(b) SpPd

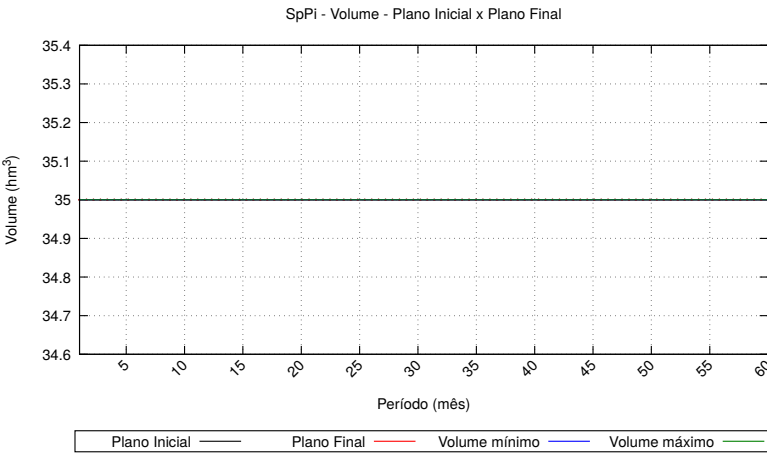
15.6 Resultados - SpPi



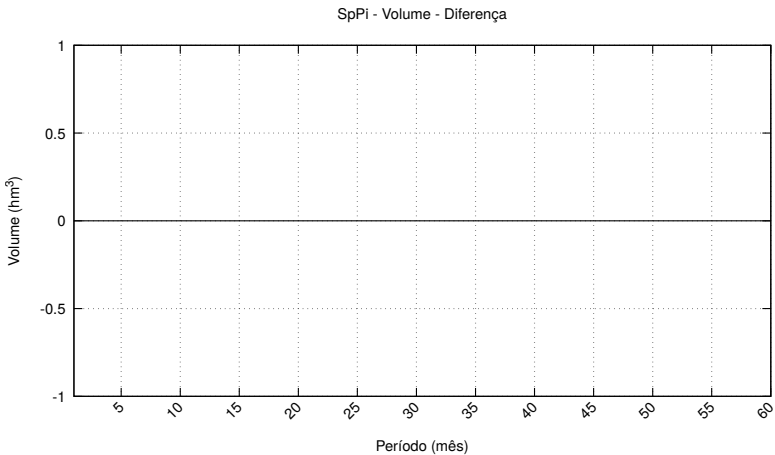
(a) SpPi



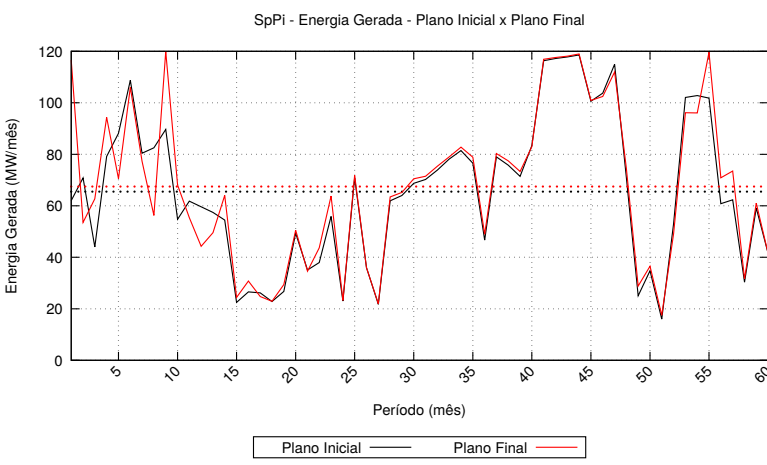
(b) SpPi



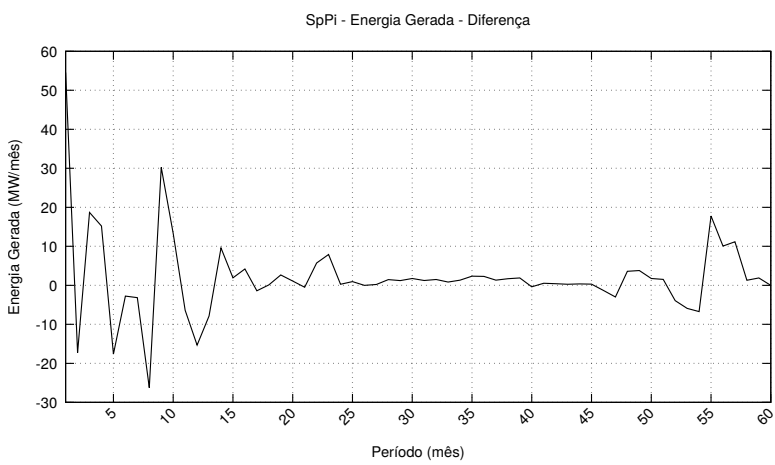
(a) SpPi



(b) SpPi



(a) SpPi

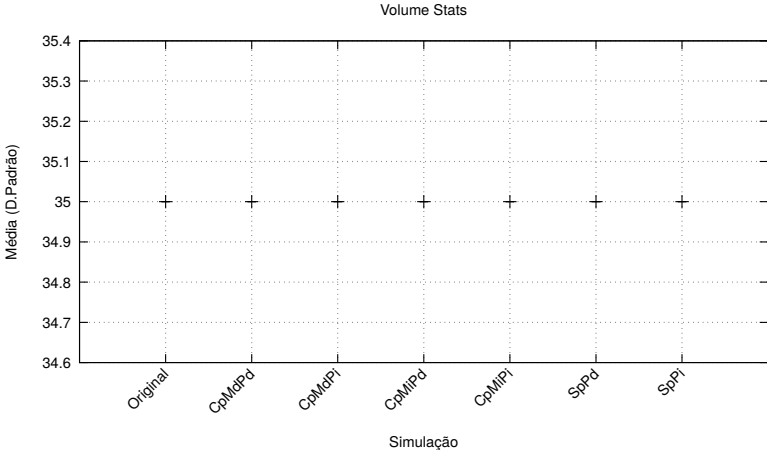


(b) SpPi

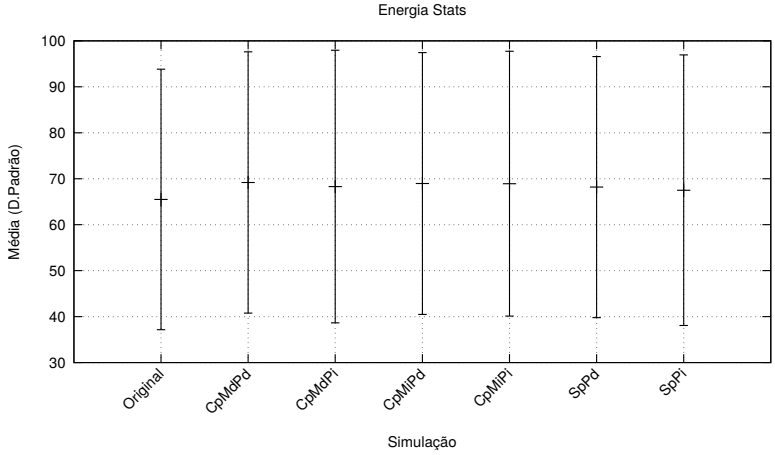
15.7 GPlan Stats

Tabela 20: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	35.00000	0.00000	65.49156	28.33381
CpMdPd	35.00000	0.00000	69.18782	28.43205
CpMdPi	35.00000	0.00000	68.28977	29.65549
CpMiPd	35.00000	0.00000	68.96979	28.48526
CpMiPi	35.00000	0.00000	68.91755	28.81331
SpPd	35.00000	0.00000	68.18015	28.40106
SpPi	35.00000	0.00000	67.49821	29.43753

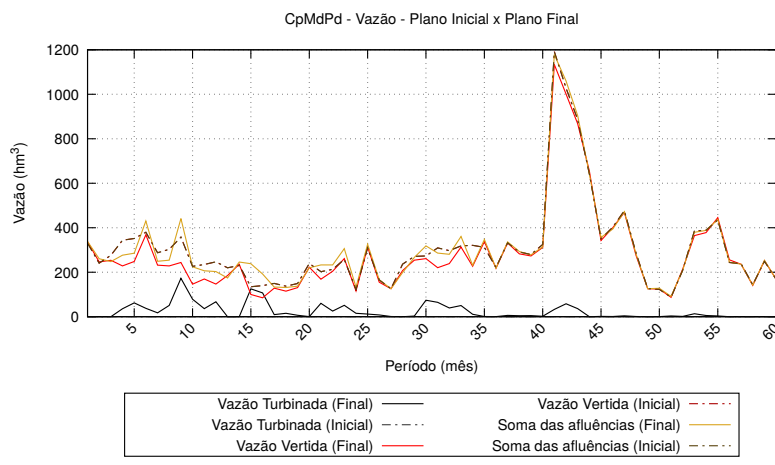


(a) Volume

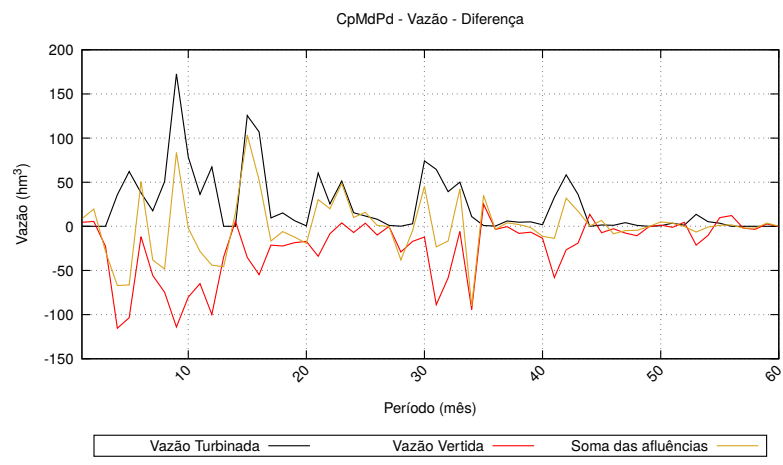


(b) Energia

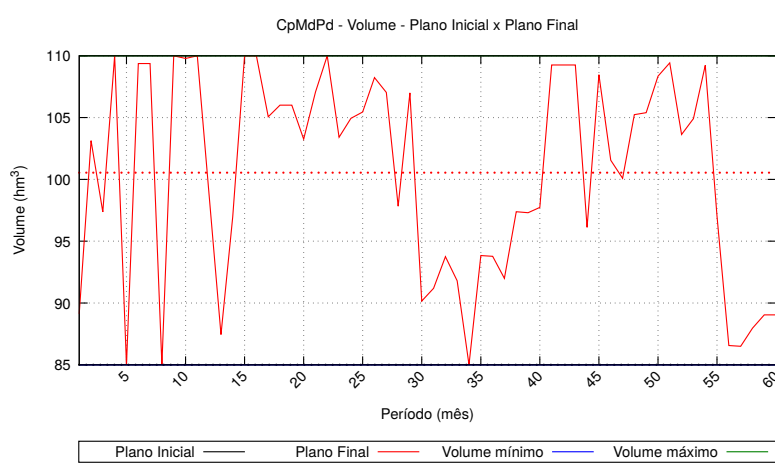
16.1 Resultados - CpMdPd



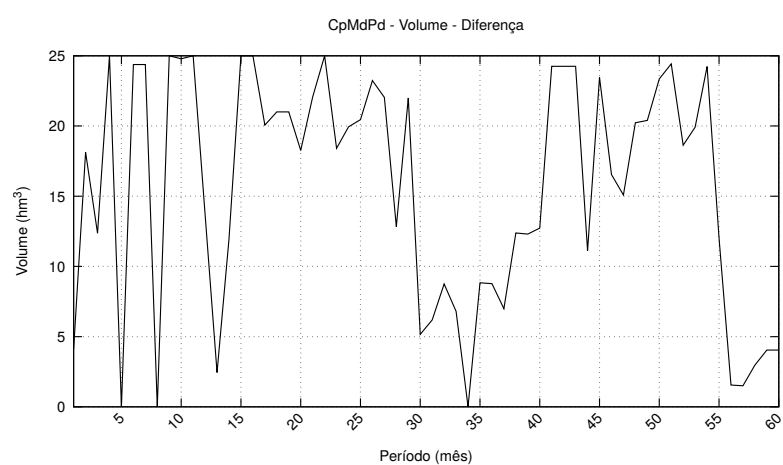
(a) CpMdPd



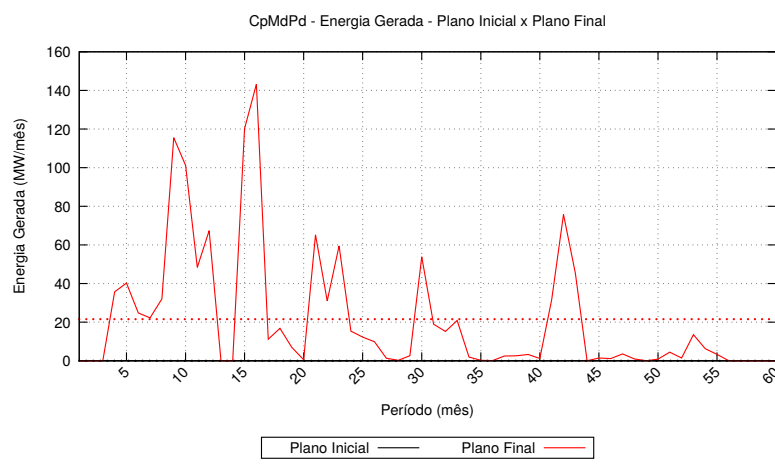
(b) CpMdPd



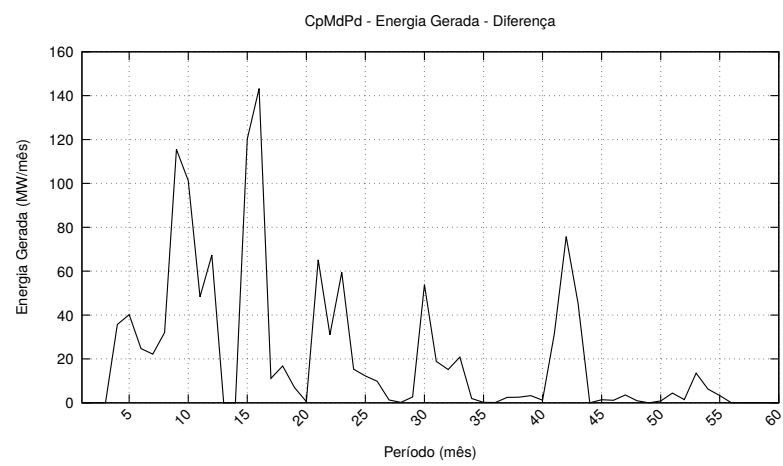
(a) CpMdPd



(b) CpMdPd



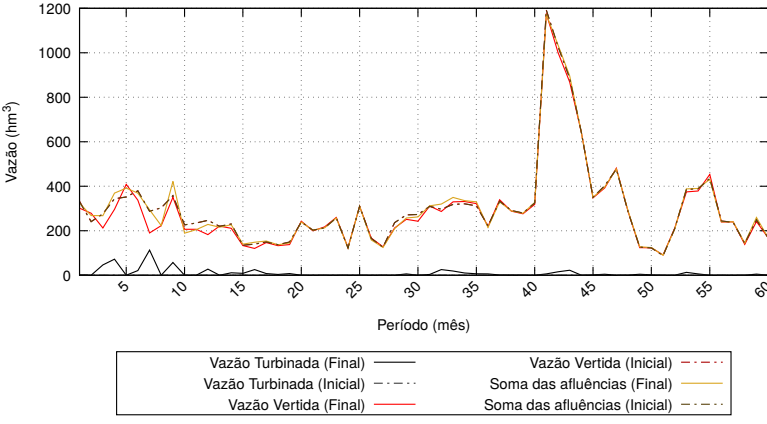
(a) CpMdPd



(b) CpMdPd

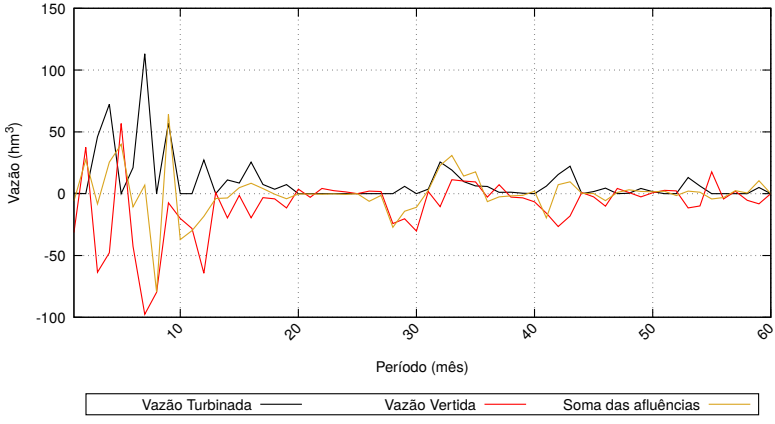
16.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



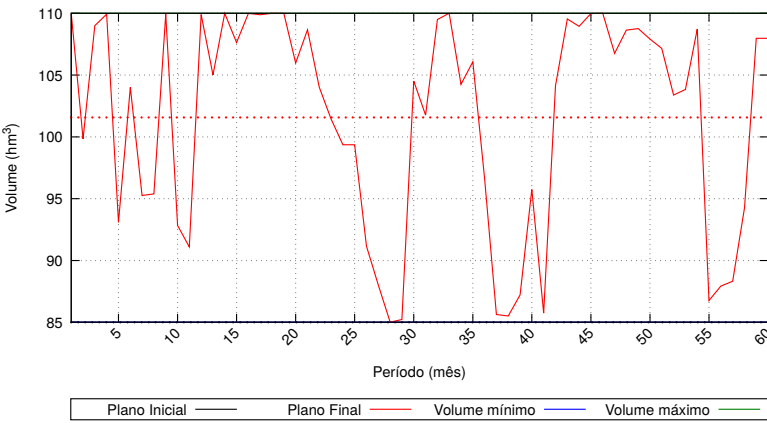
(a) CpMdPi

CpMdPi - Vazão - Diferença



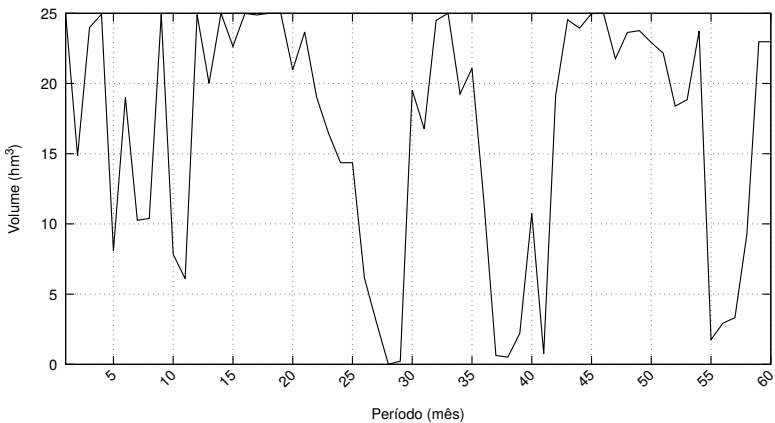
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



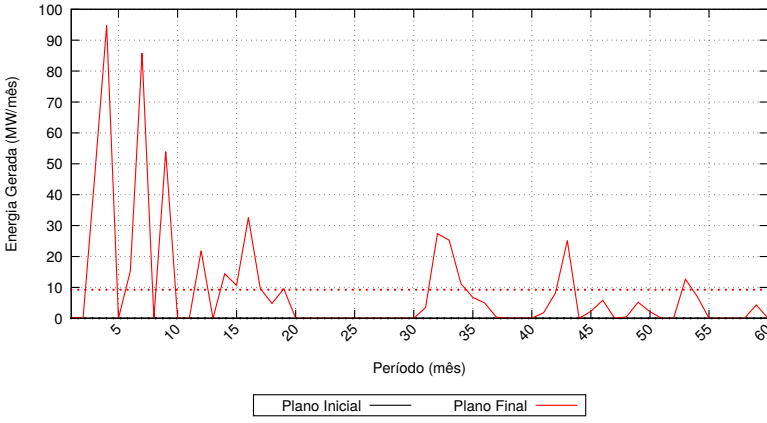
(a) CpMdPi

CpMdPi - Volume - Diferença



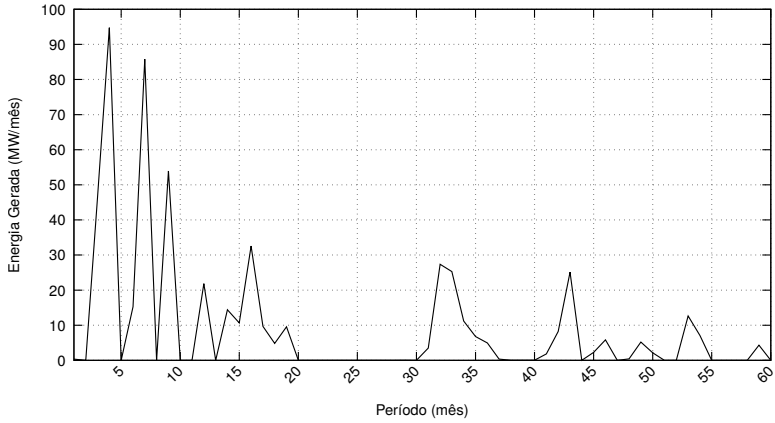
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

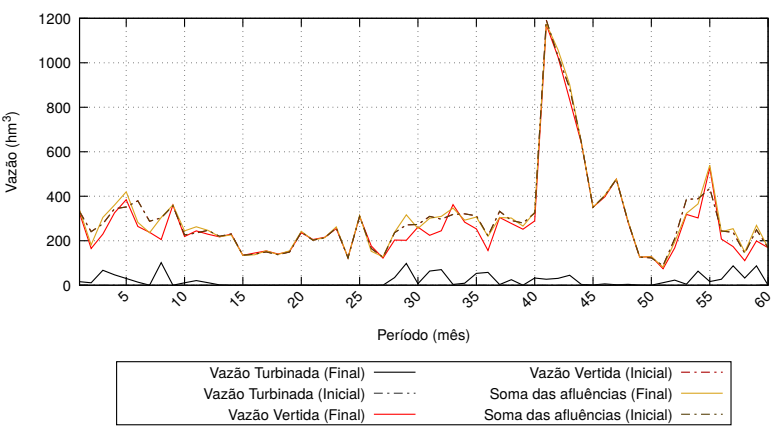
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

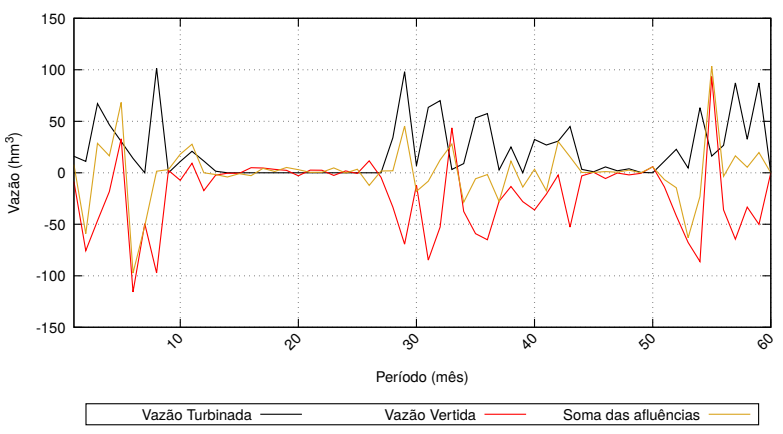
16.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



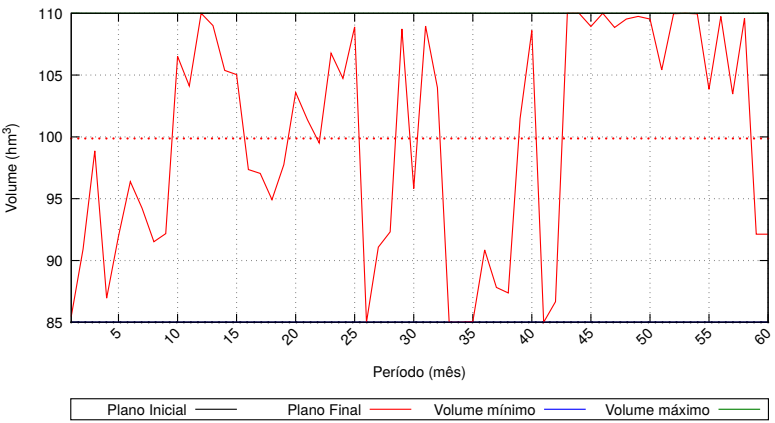
(a) CpMiPd

CpMiPd - Vazão - Diferença



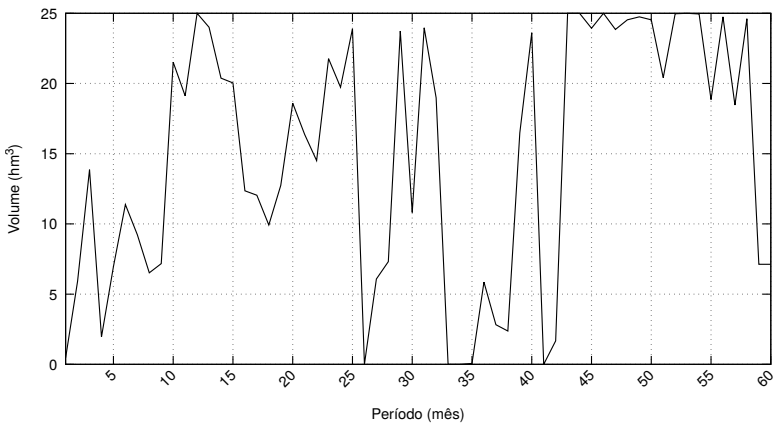
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



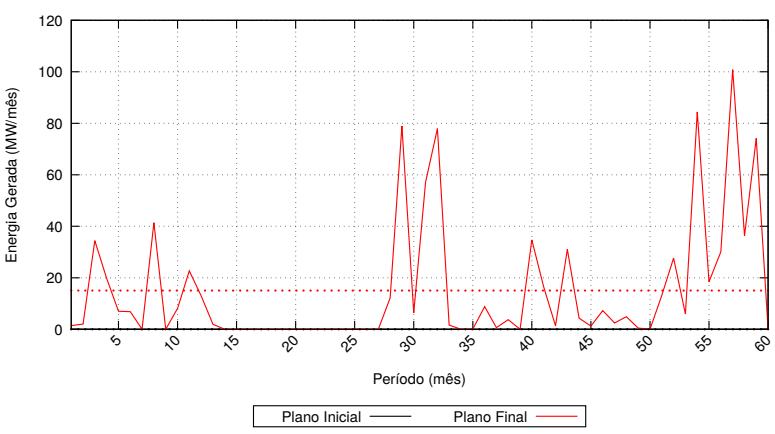
(a) CpMiPd

CpMiPd - Volume - Diferença



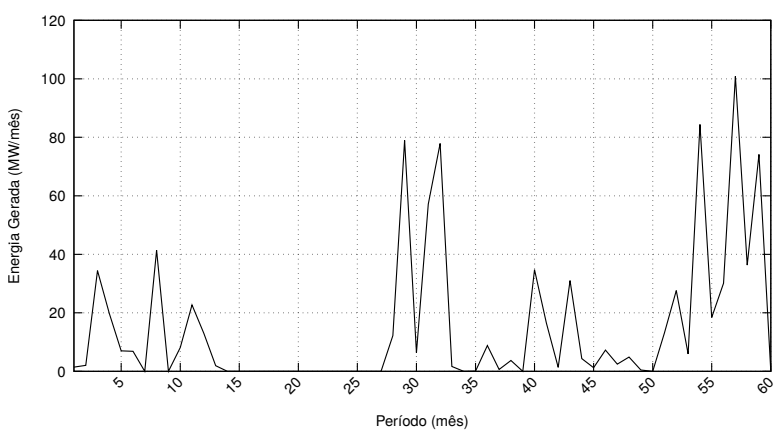
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

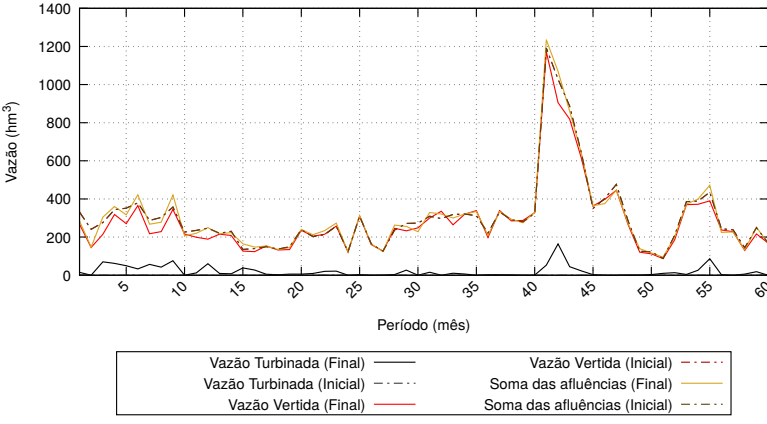
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

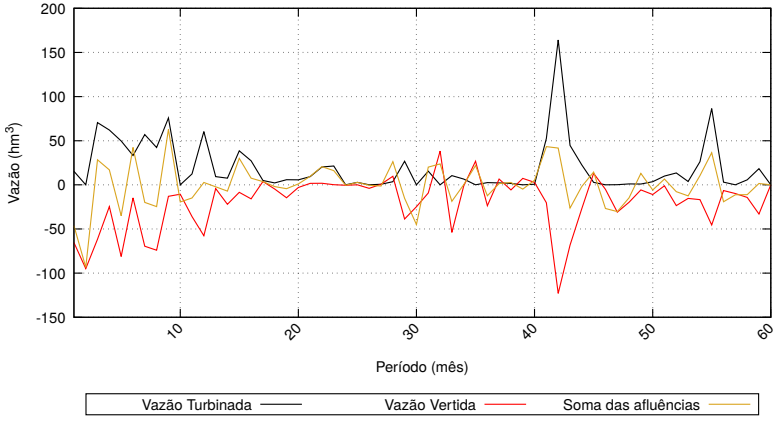
16.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



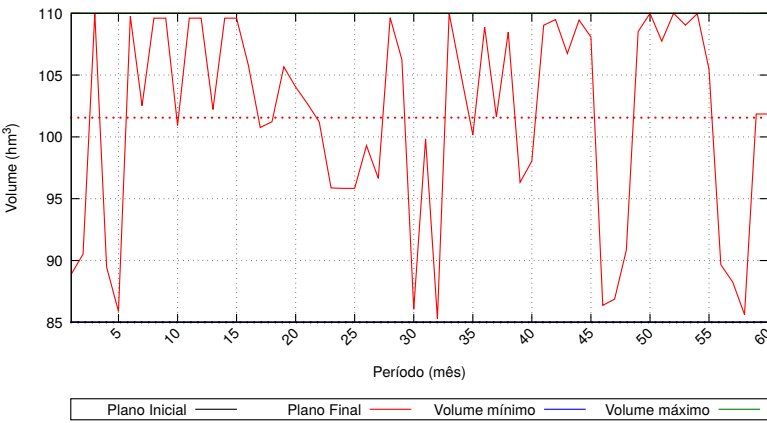
(a) CpMiPi

CpMiPi - Vazão - Diferença



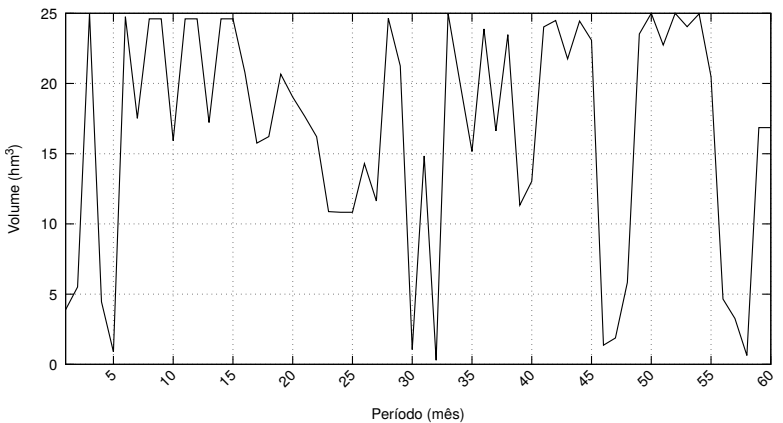
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



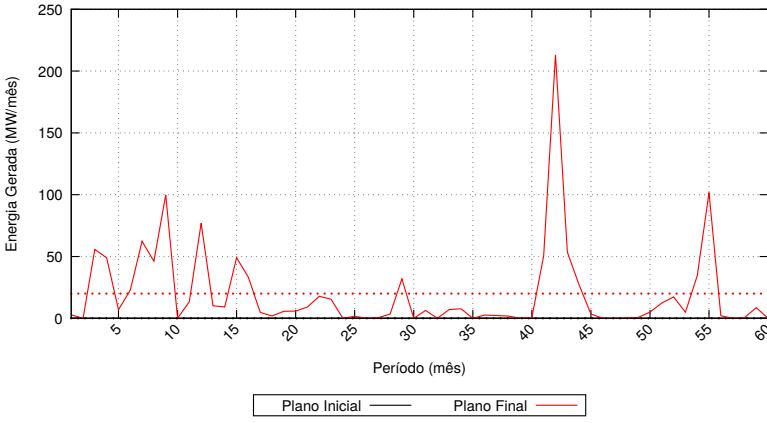
(a) CpMiPi

CpMiPi - Volume - Diferença



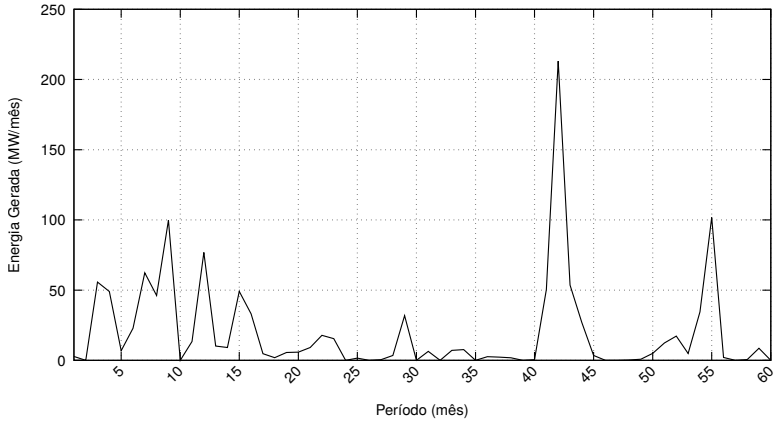
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

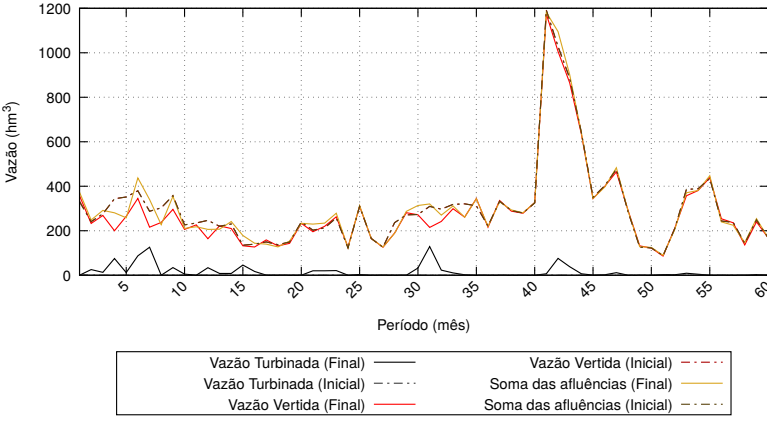
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

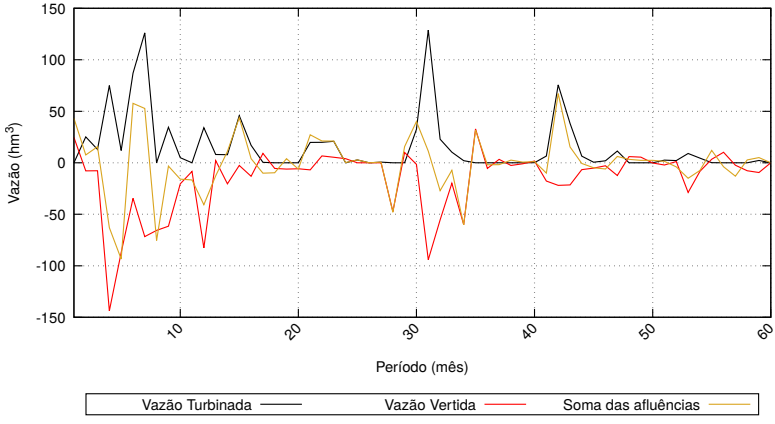
16.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



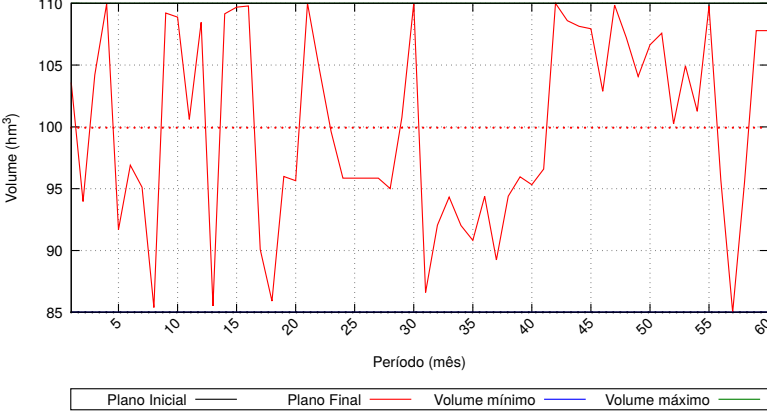
(a) SpPd

SpPd - Vazão - Diferença



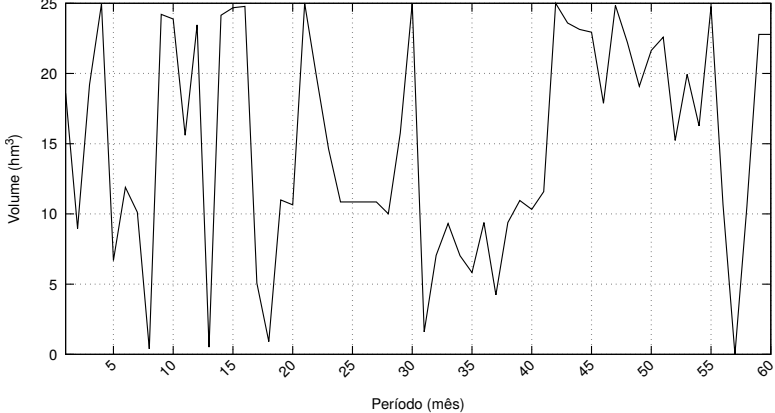
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



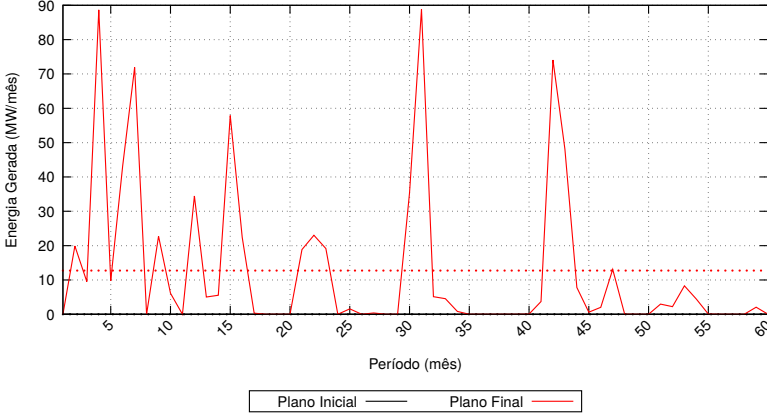
(a) SpPd

SpPd - Volume - Diferença



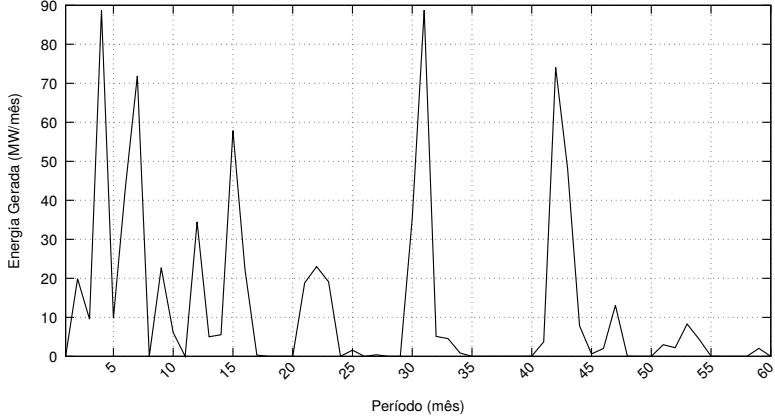
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

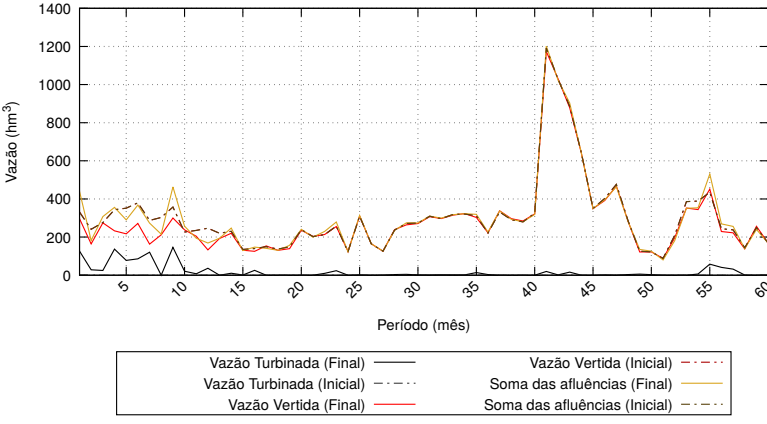
SpPd - Energia Gerada - Diferença



(b) SpPd

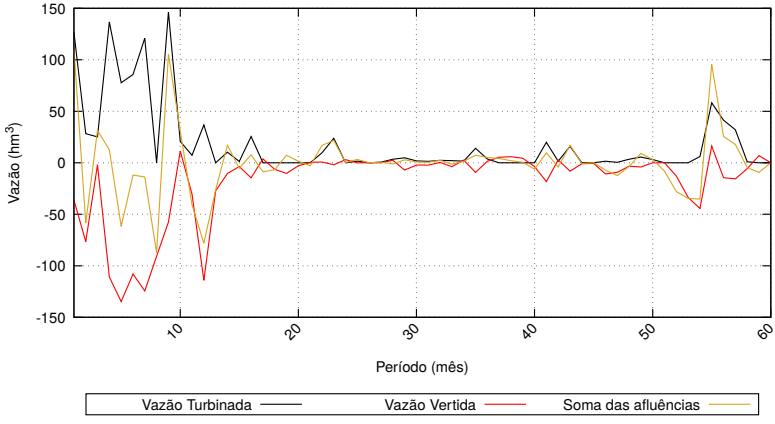
16.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



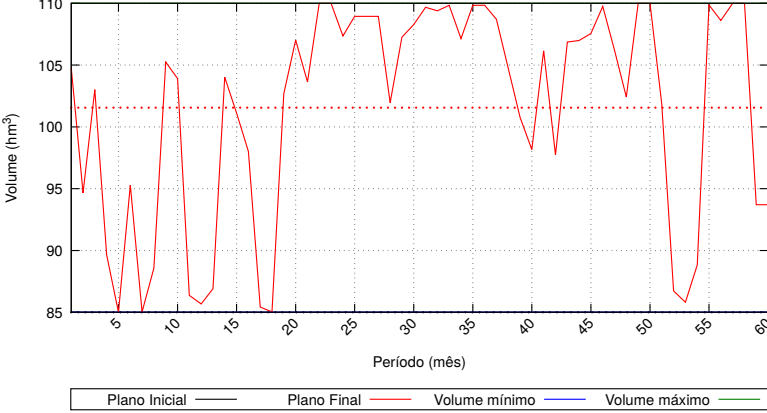
(a) SpPi

SpPi - Vazão - Diferença



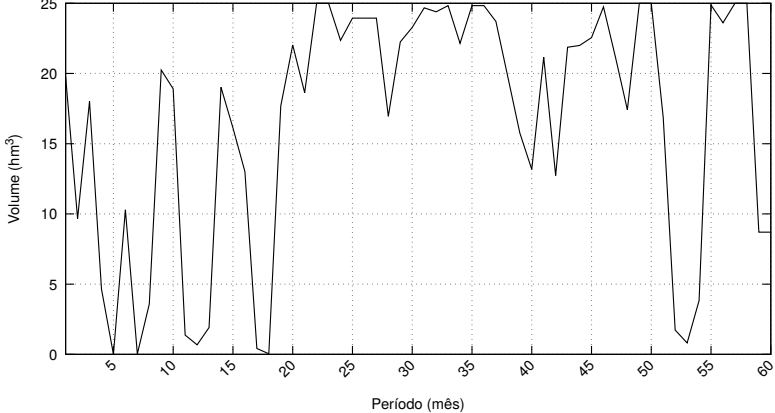
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



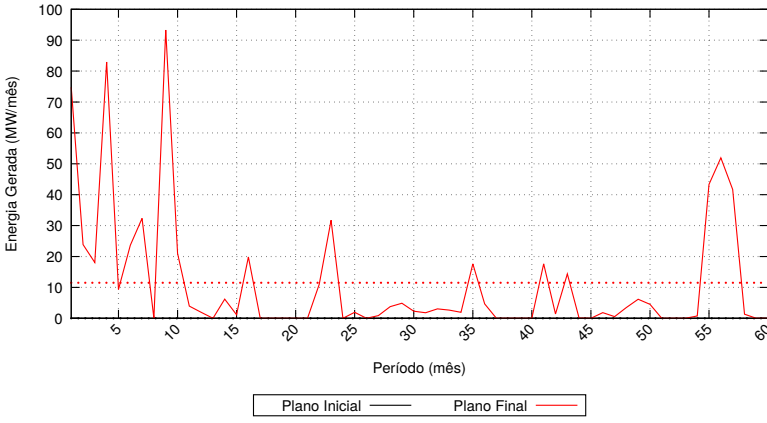
(a) SpPi

SpPi - Volume - Diferença



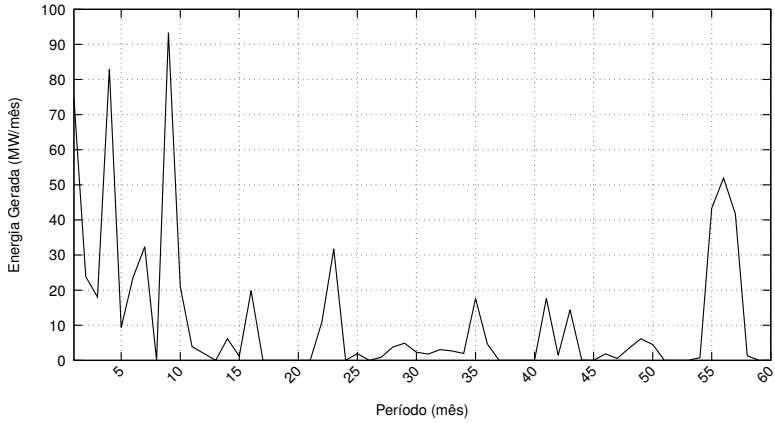
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

SpPi - Energia Gerada - Diferença

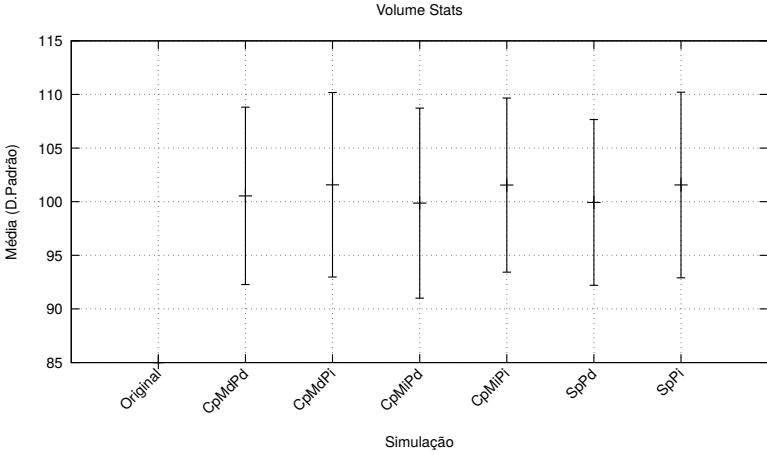


(b) SpPi

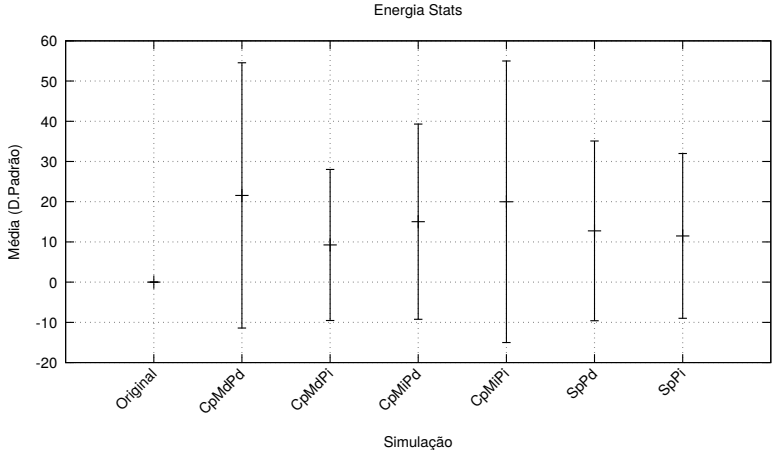
16.7 GPlan Stats

Tabela 21: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	85.00000	0.00000	0.00000	0.00000
CpMdPd	100.54612	8.27563	21.56575	32.98409
CpMdPi	101.57663	8.60408	9.24258	18.78448
CpMiPd	99.86873	8.86071	15.02484	24.26820
CpMiPi	101.55247	8.11597	19.98262	35.00118
SpPd	99.93112	7.73175	12.74380	22.35501
SpPi	101.56054	8.65275	11.49224	20.48450



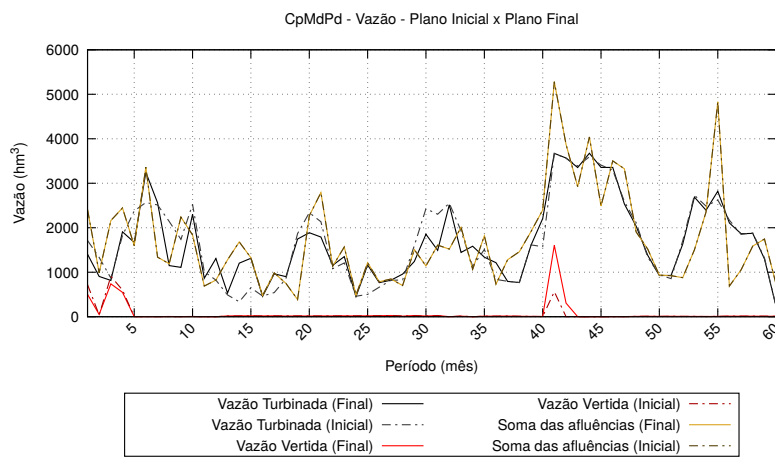
(a) Volume



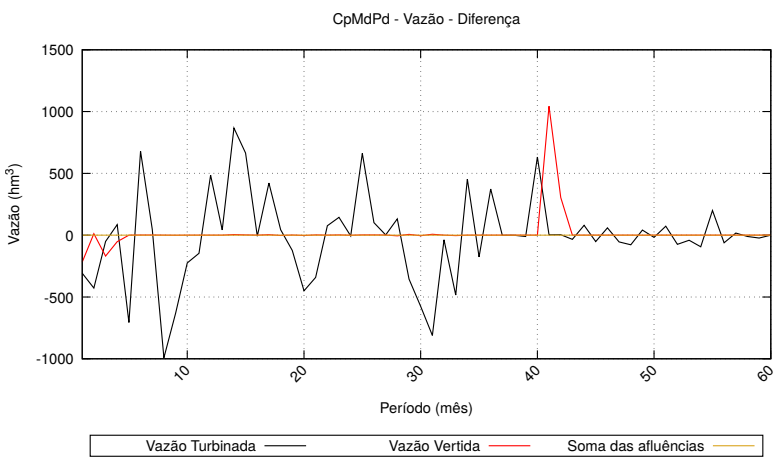
(b) Energia

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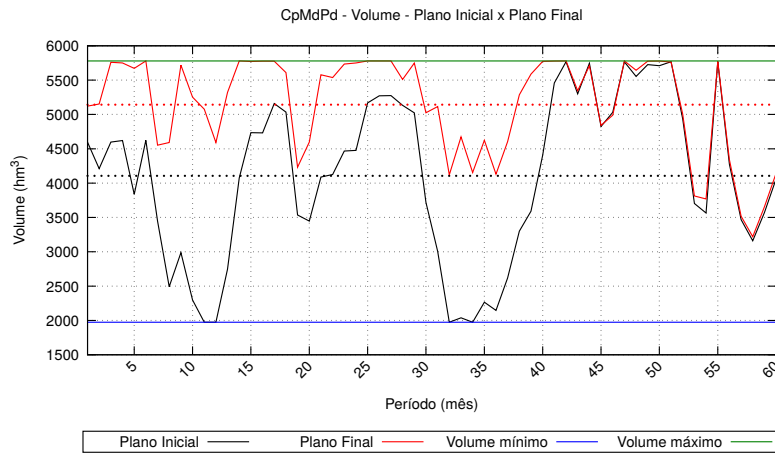
17.1 Resultados - CpMdPd



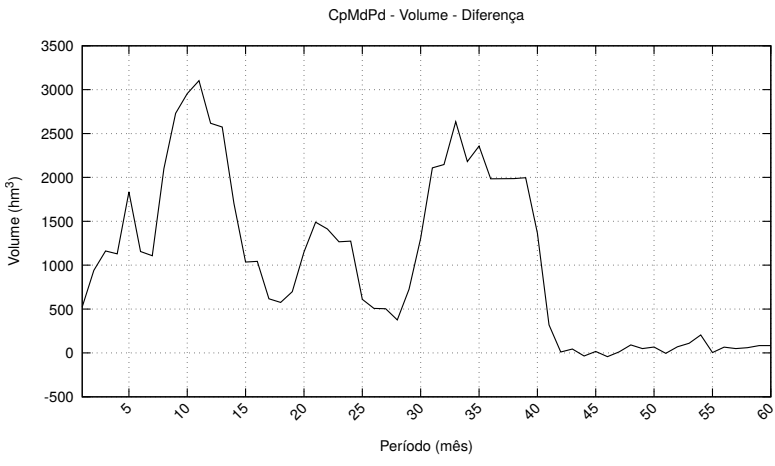
(a) CpMdPd



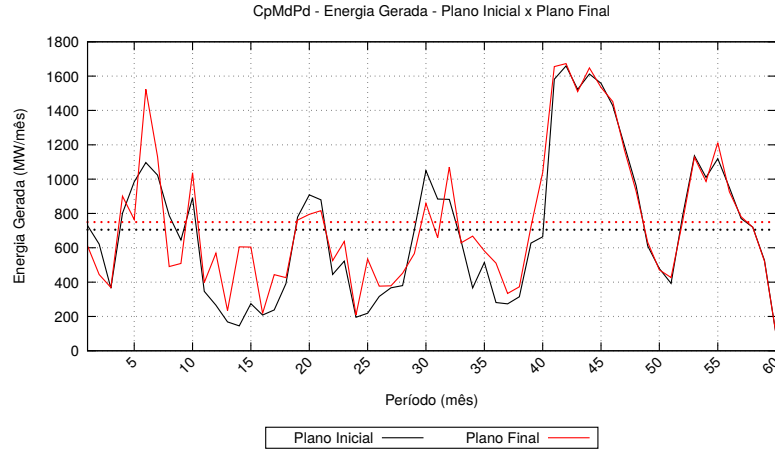
(b) CpMdPd



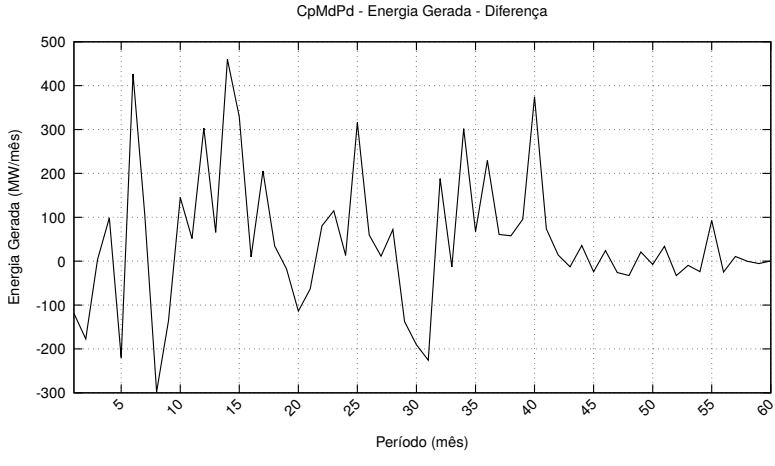
(a) CpMdPd



(b) CpMdPd



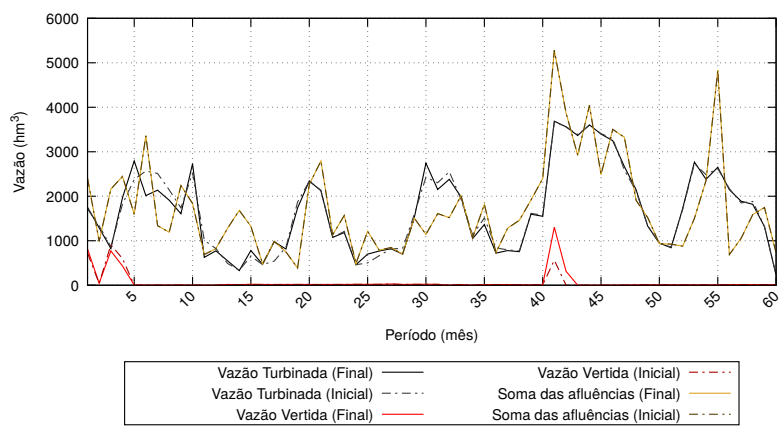
(a) CpMdPd



(b) CpMdPd

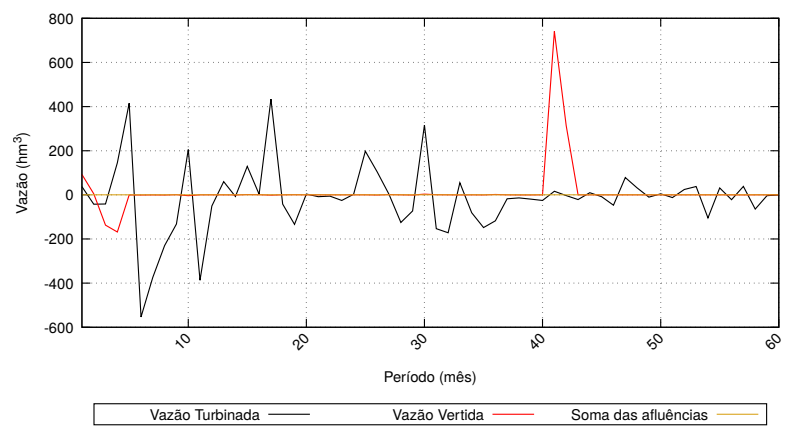
17.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



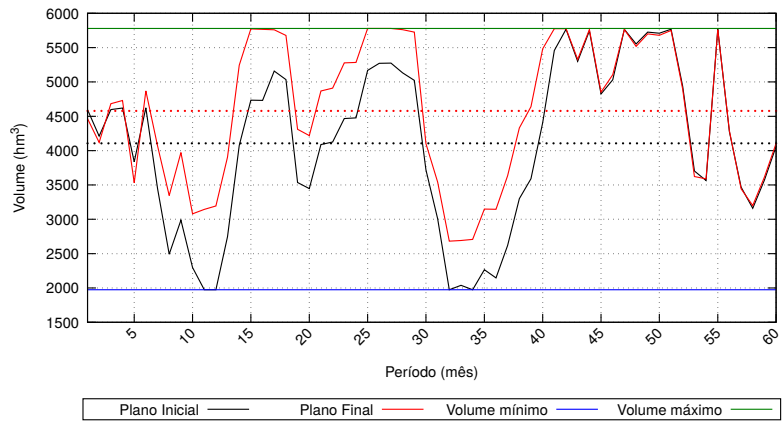
(a) CpMdPi

CpMdPi - Vazão - Diferença



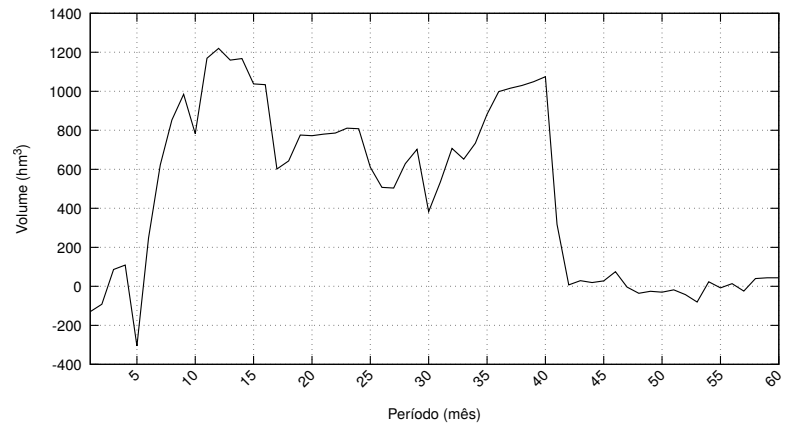
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



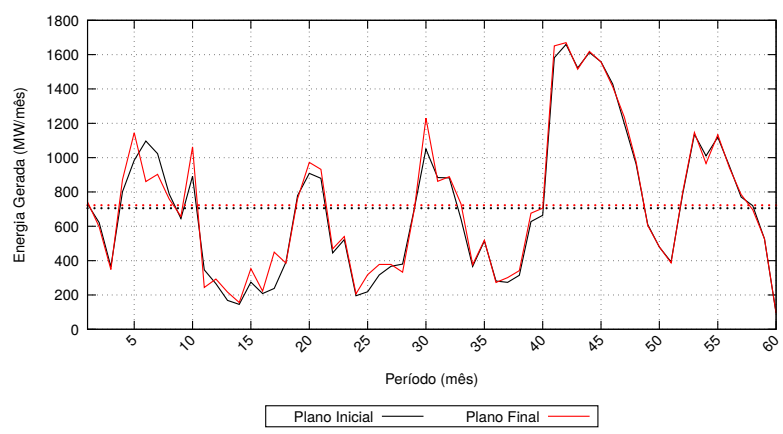
(a) CpMdPi

CpMdPi - Volume - Diferença



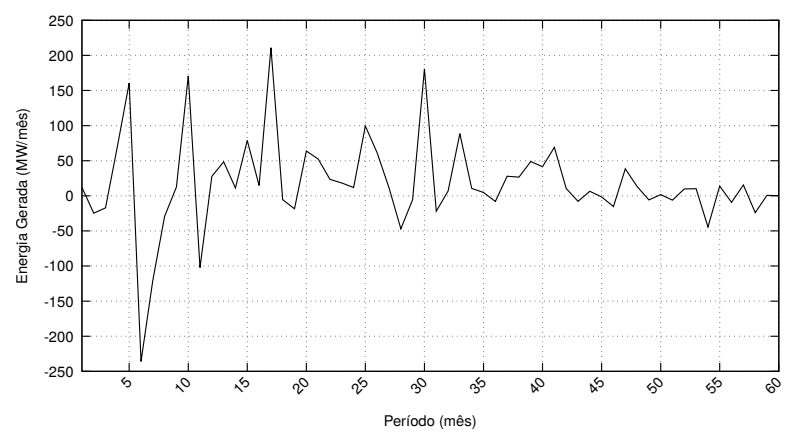
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

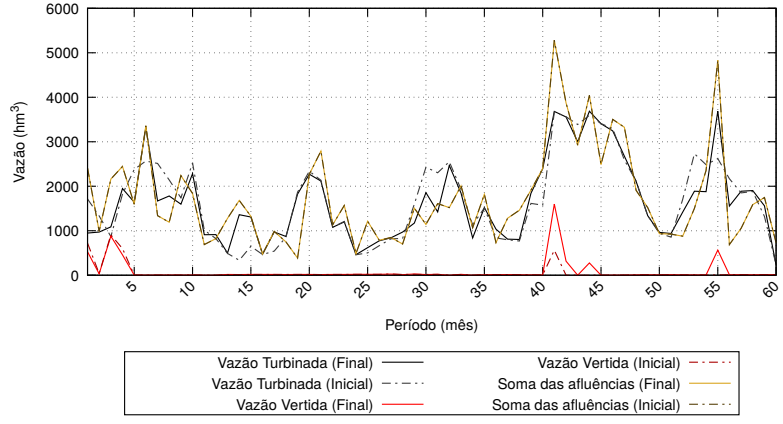
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

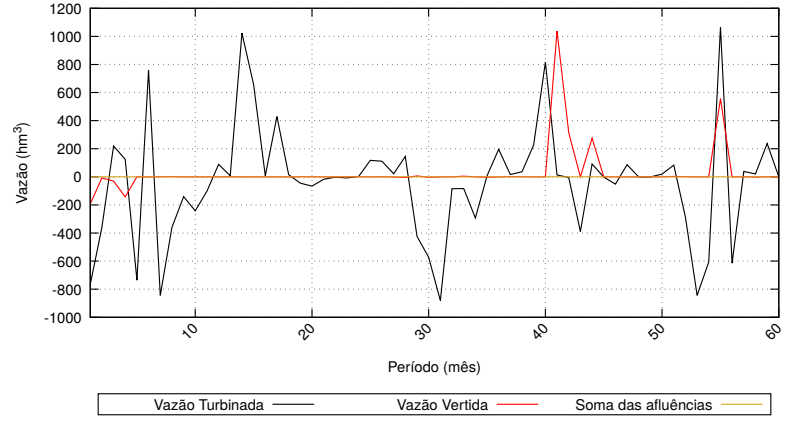
17.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



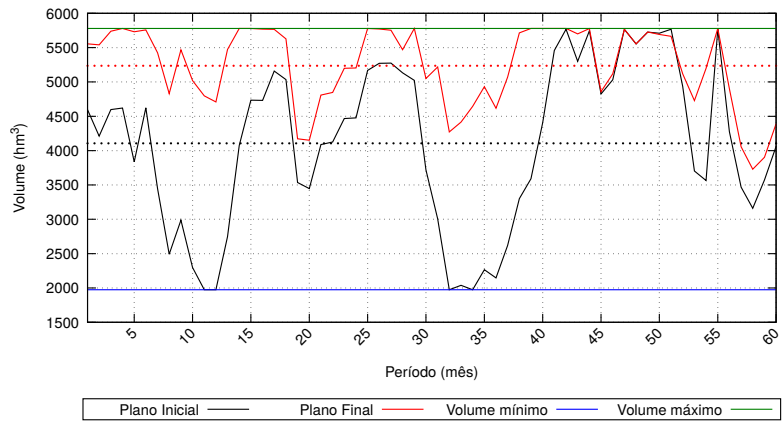
(a) CpMiPd

CpMiPd - Vazão - Diferença



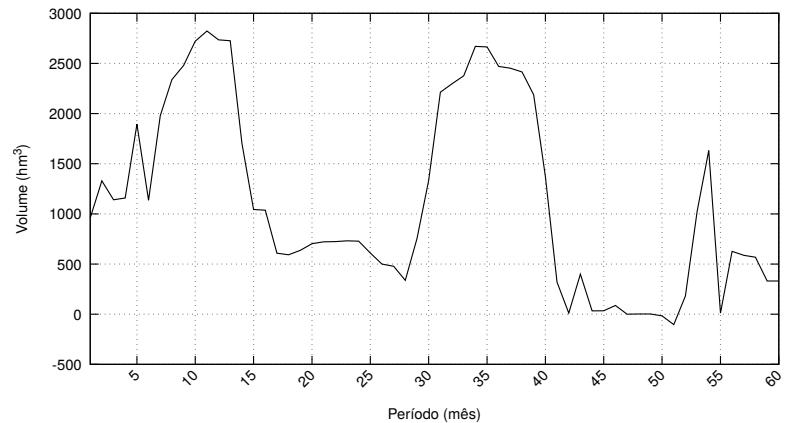
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



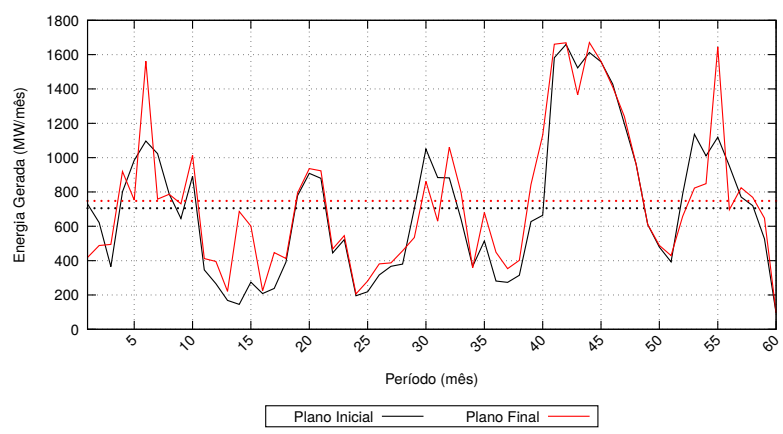
(a) CpMiPd

CpMiPd - Volume - Diferença



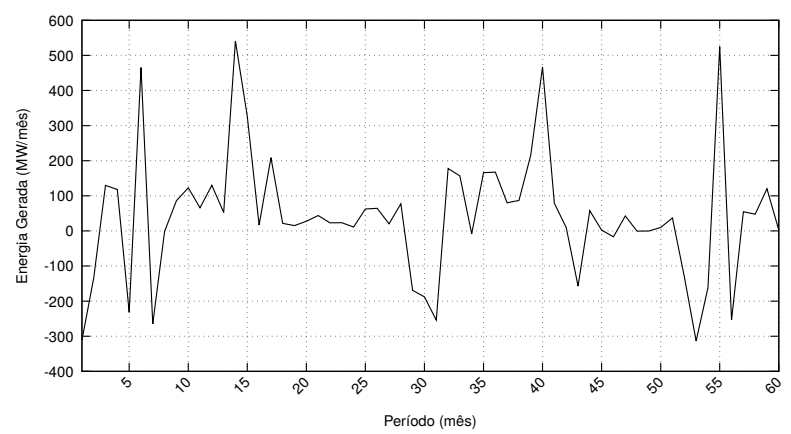
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

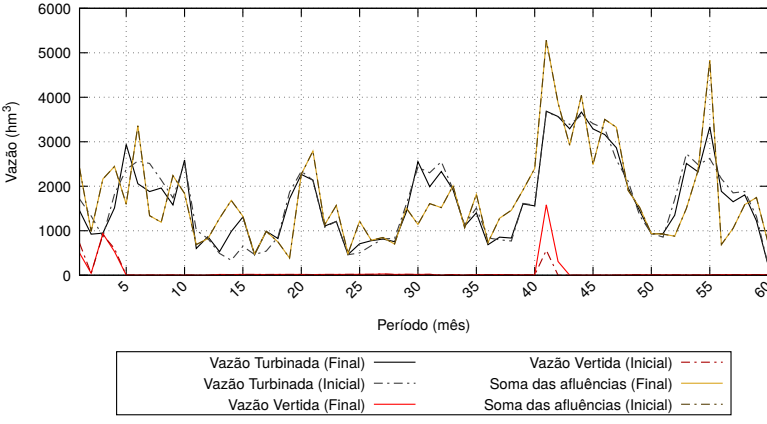
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

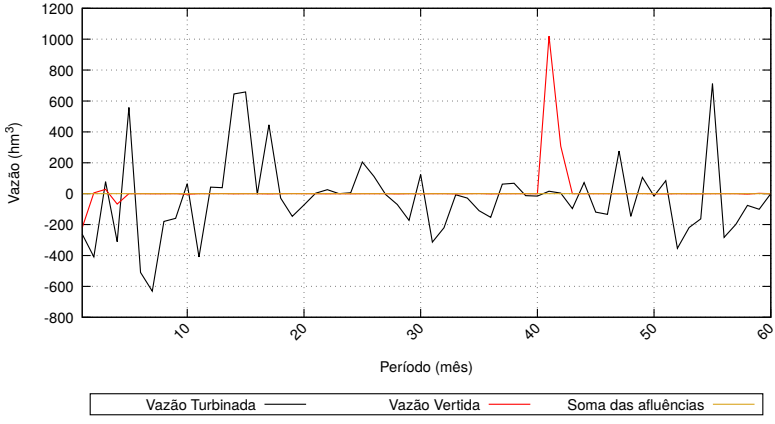
17.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



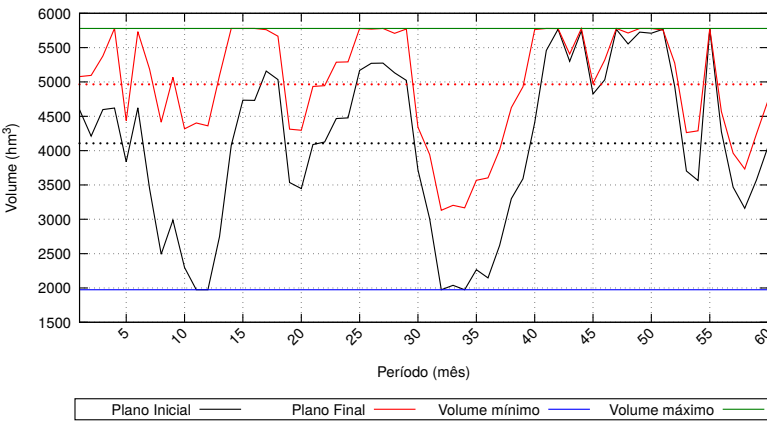
(a) CpMiPi

CpMiPi - Vazão - Diferença



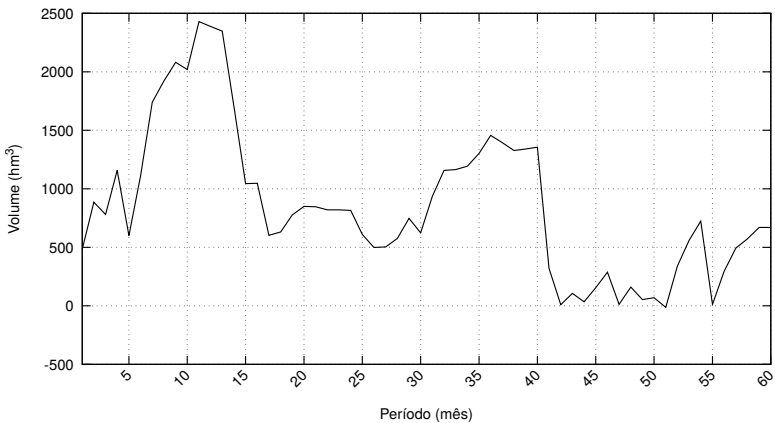
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



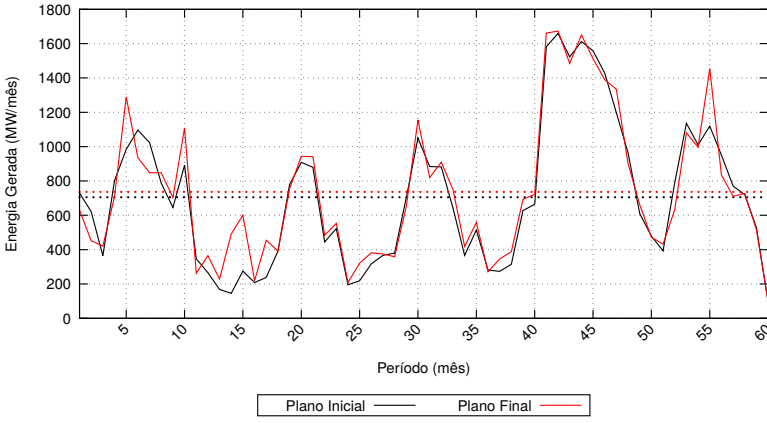
(a) CpMiPi

CpMiPi - Volume - Diferença



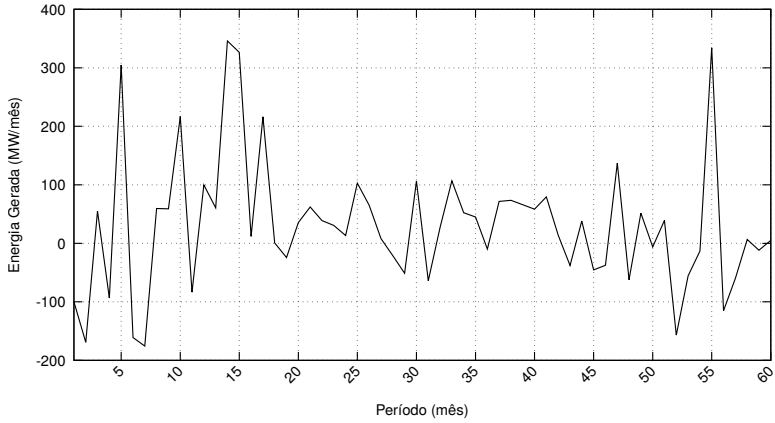
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

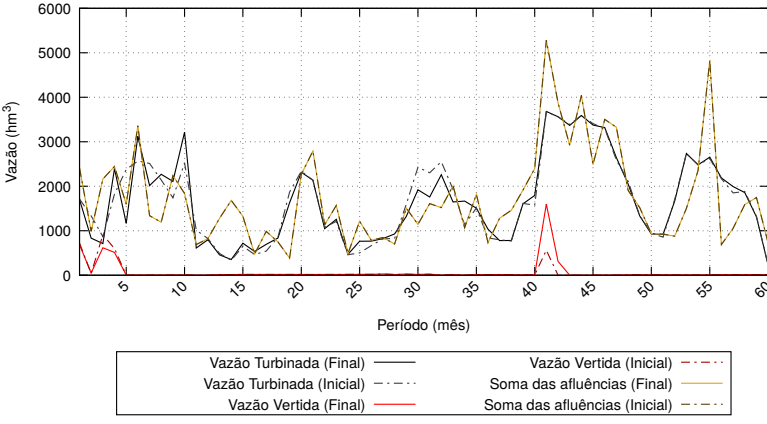
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

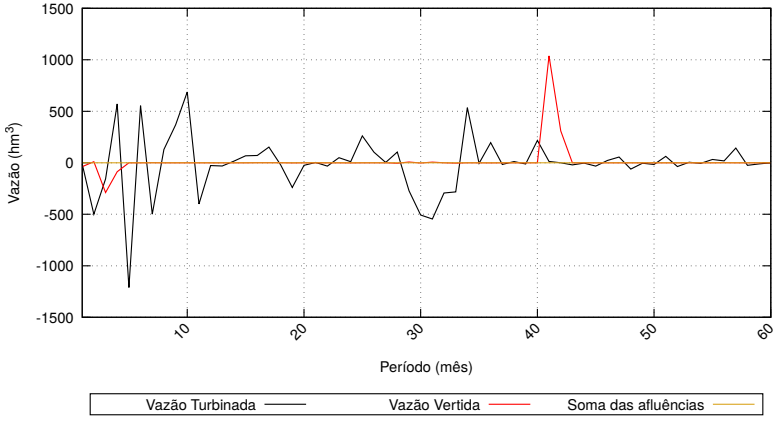
17.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



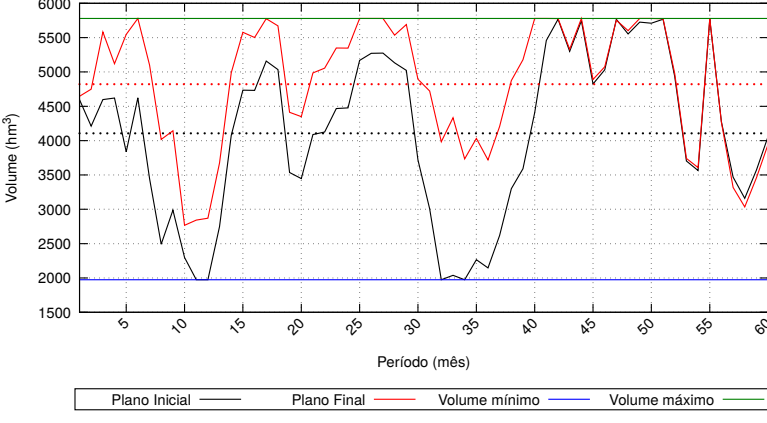
(a) SpPd

SpPd - Vazão - Diferença



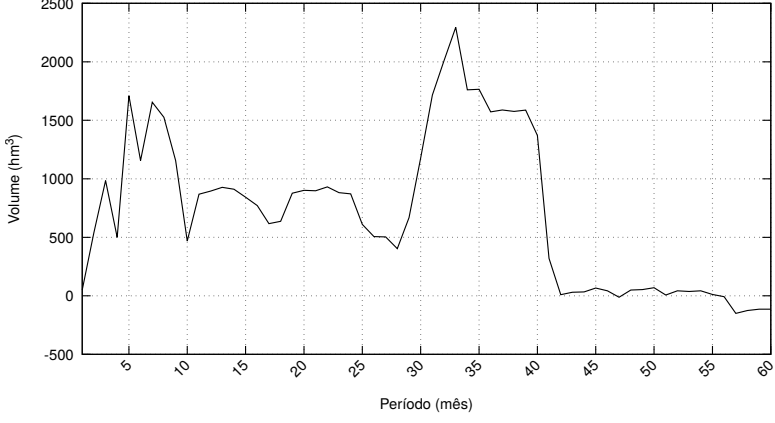
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



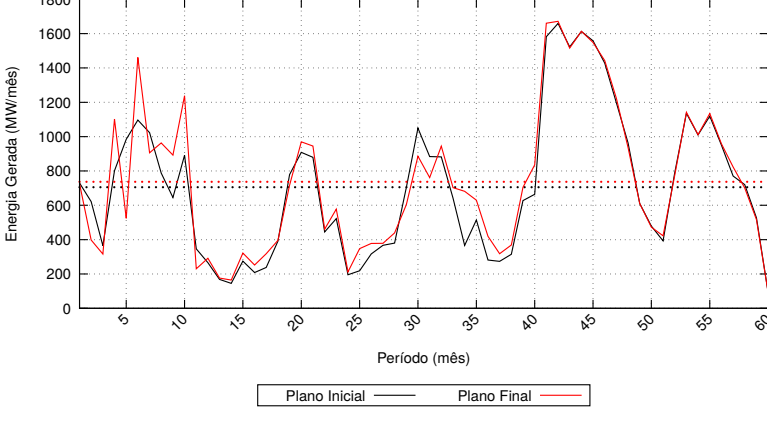
(a) SpPd

SpPd - Volume - Diferença



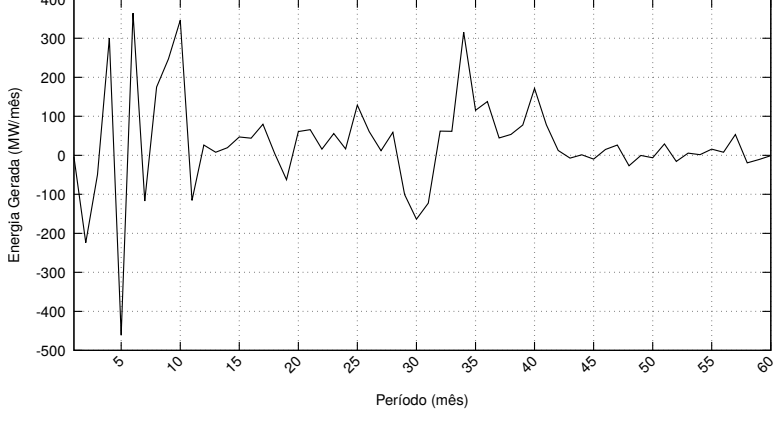
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

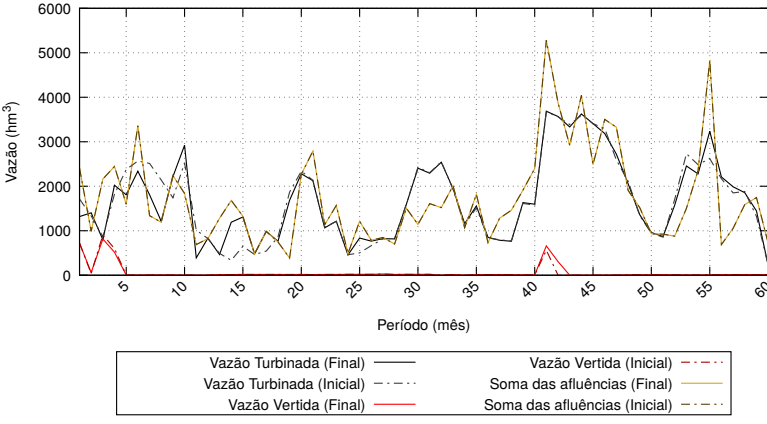
SpPd - Energia Gerada - Diferença



(b) SpPd

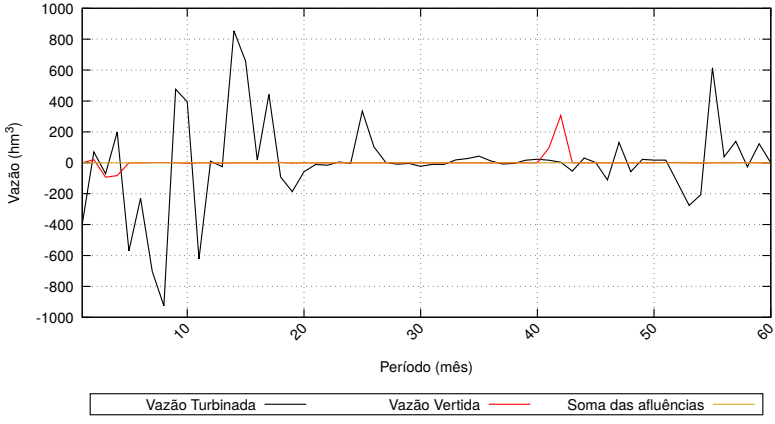
17.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



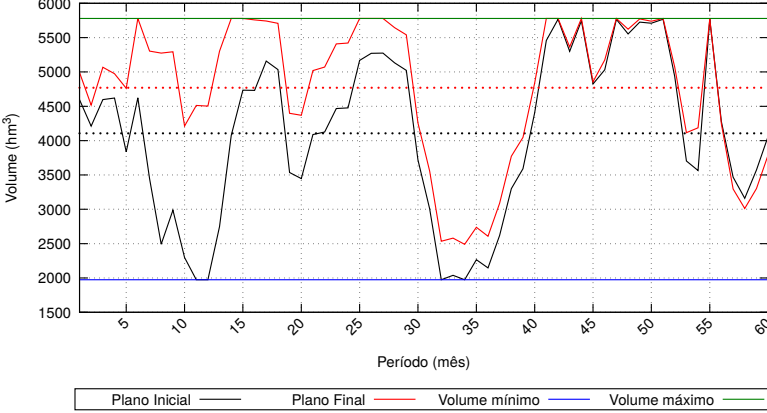
(a) SpPi

SpPi - Vazão - Diferença



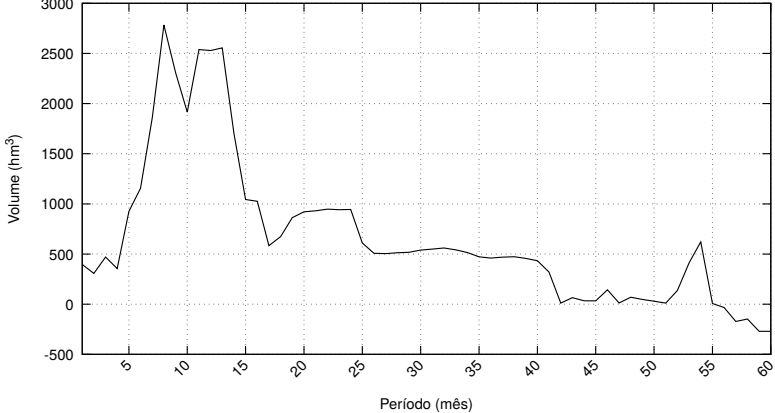
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



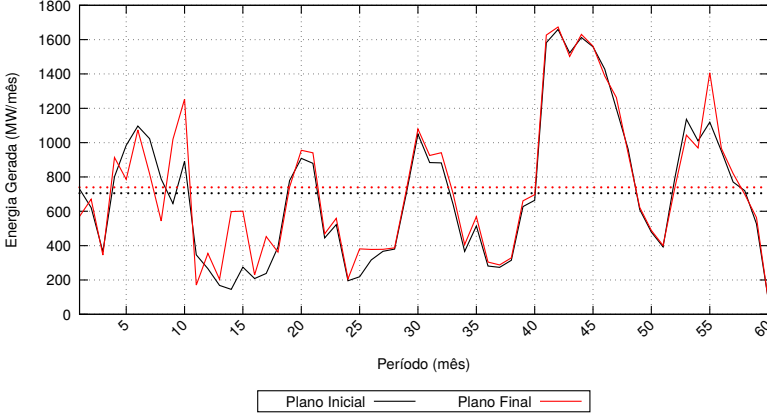
(a) SpPi

SpPi - Volume - Diferença



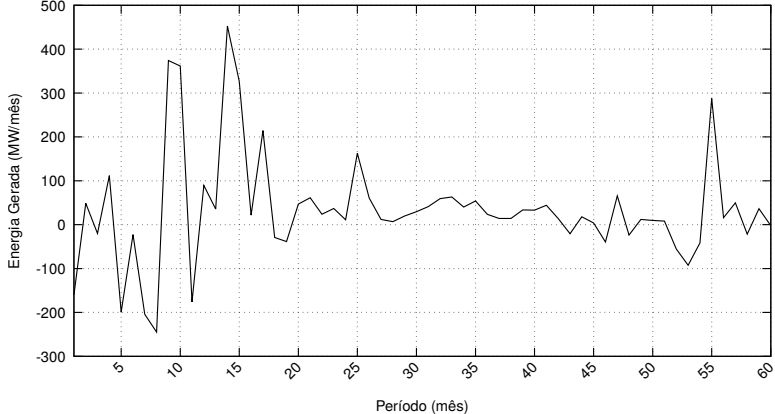
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

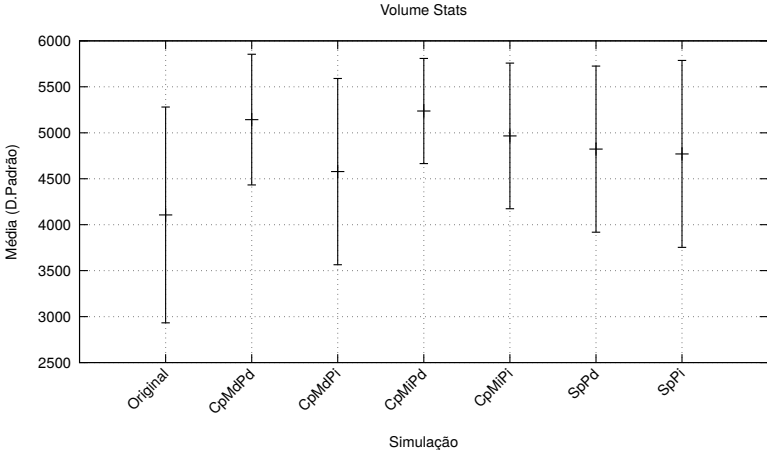
SpPi - Energia Gerada - Diferença



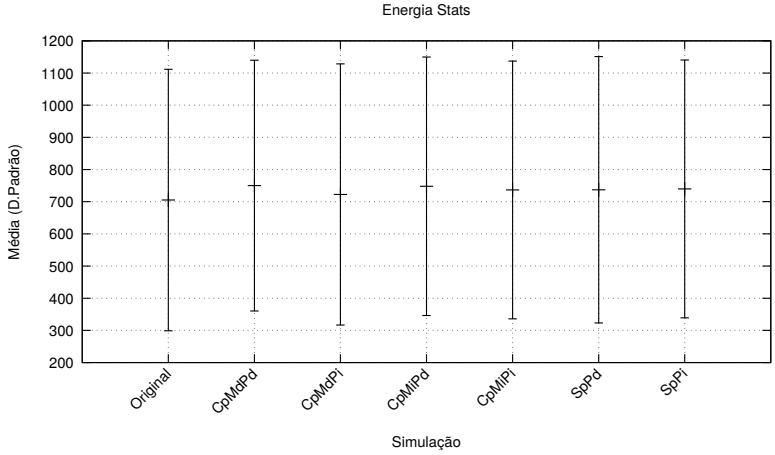
(b) SpPi

Tabela 22: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	4105.79335	1174.15211	705.27728	406.39926
CpMdPd	5143.20508	711.05292	749.96566	389.77551
CpMdPi	4577.67235	1012.75890	722.51970	405.92900
CpMiPd	5236.55832	572.34345	748.01057	401.71650
CpMiPi	4966.04166	791.89404	736.46446	400.74074
SpPd	4822.06184	903.67024	737.06189	414.02544
SpPi	4770.05186	1016.94055	739.63067	400.73771

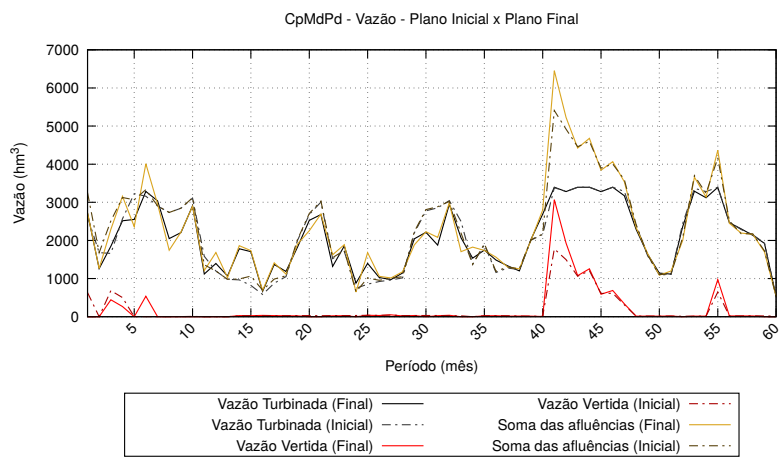


(a) Volume

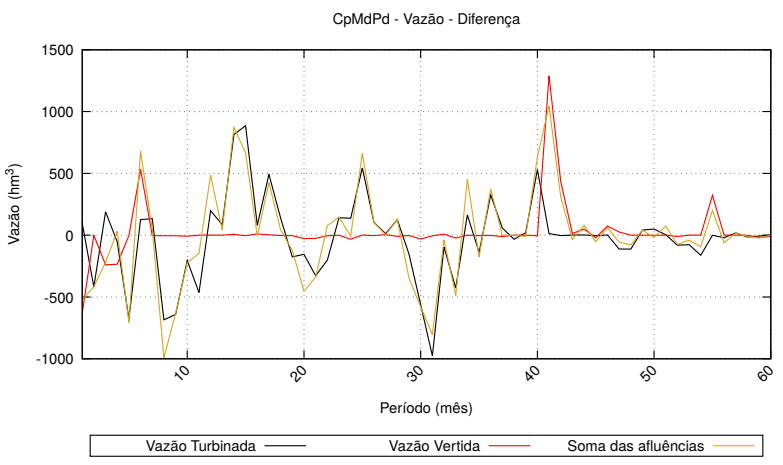


(b) Energia

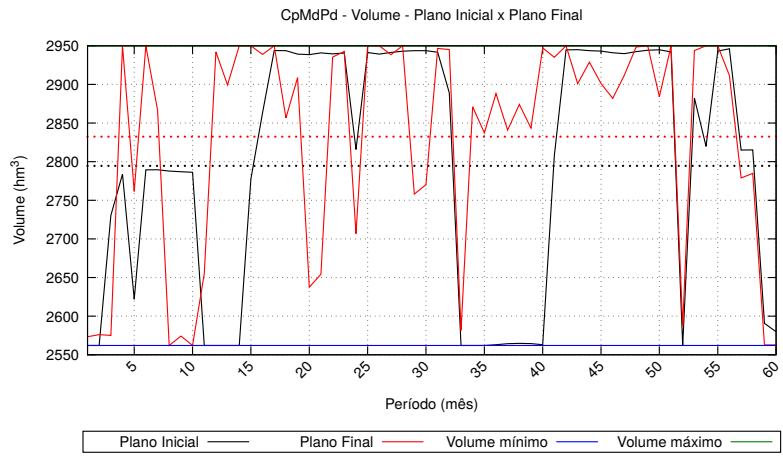
18.1 Resultados - CpMdp



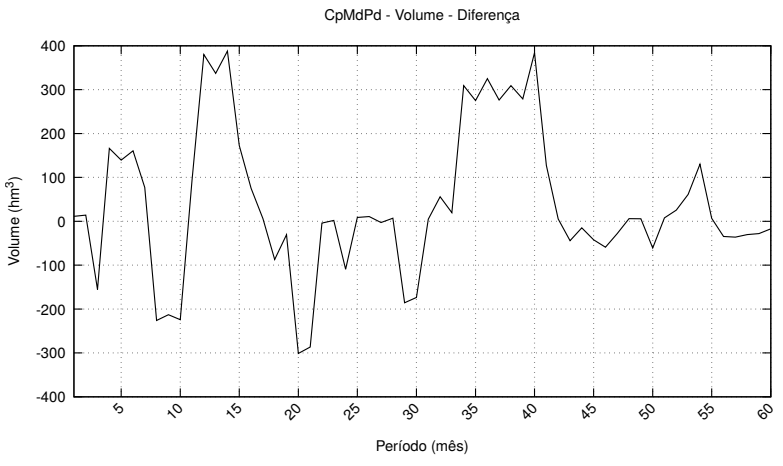
(a) CpMdp



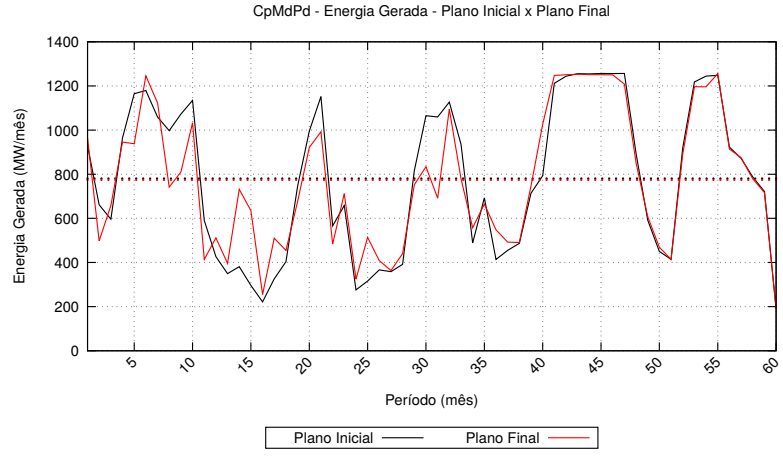
(b) CpMdp



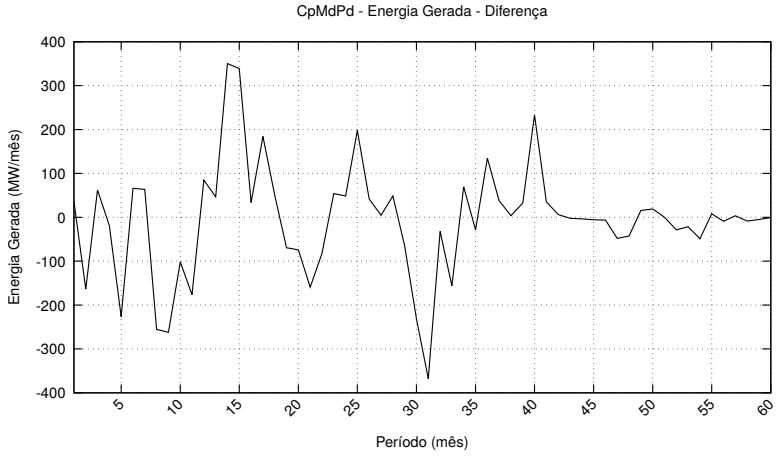
(a) CpMdp



(b) CpMdp



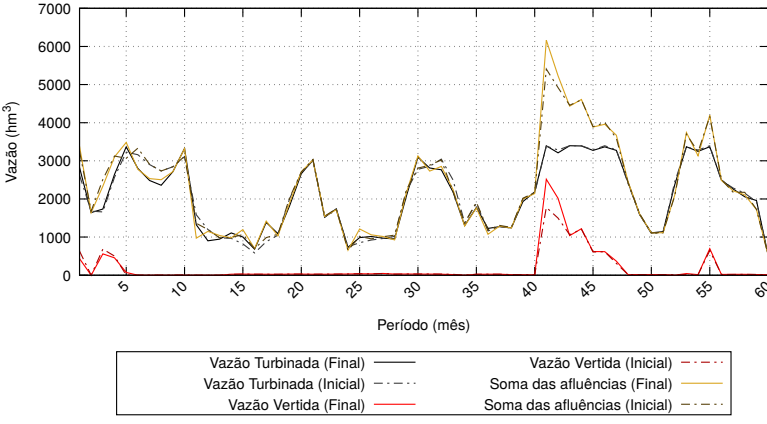
(a) CpMdp



(b) CpMdp

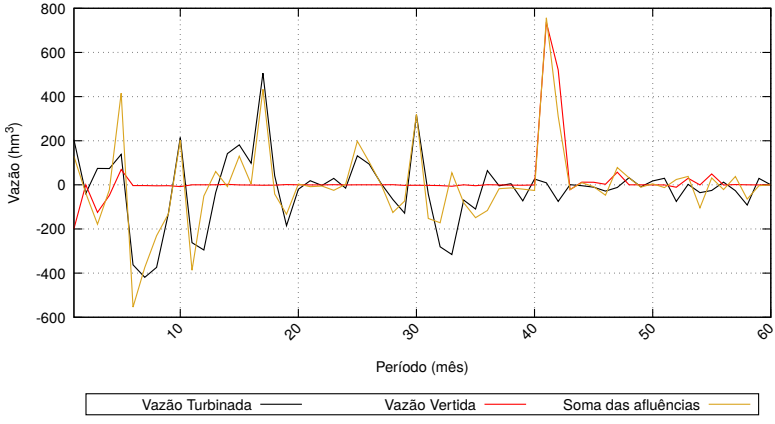
18.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



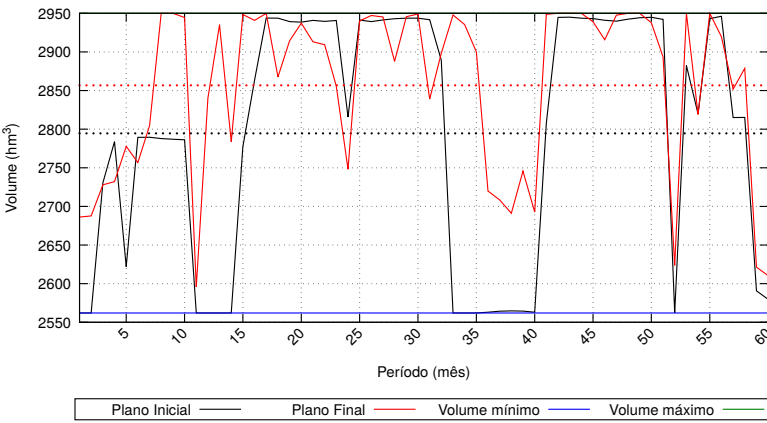
(a) CpMdPi

CpMdPi - Vazão - Diferença



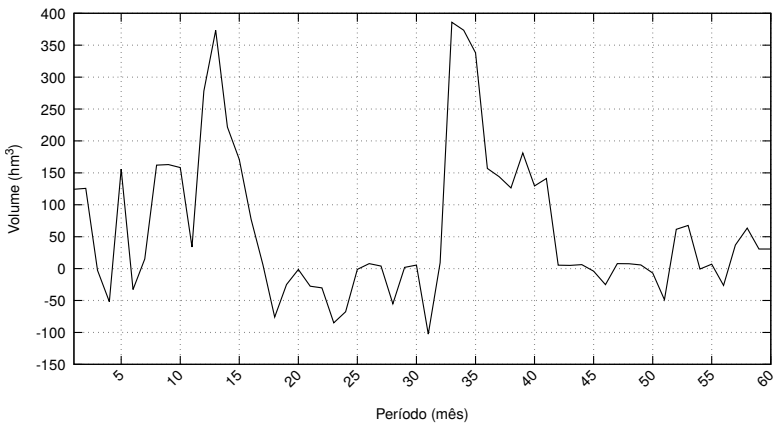
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



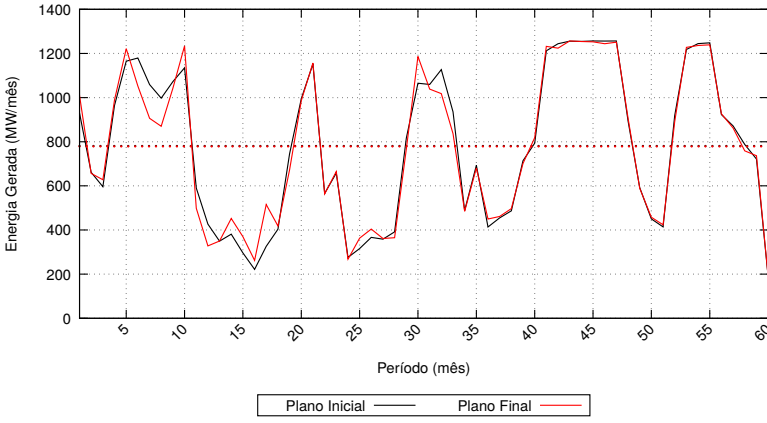
(a) CpMdPi

CpMdPi - Volume - Diferença



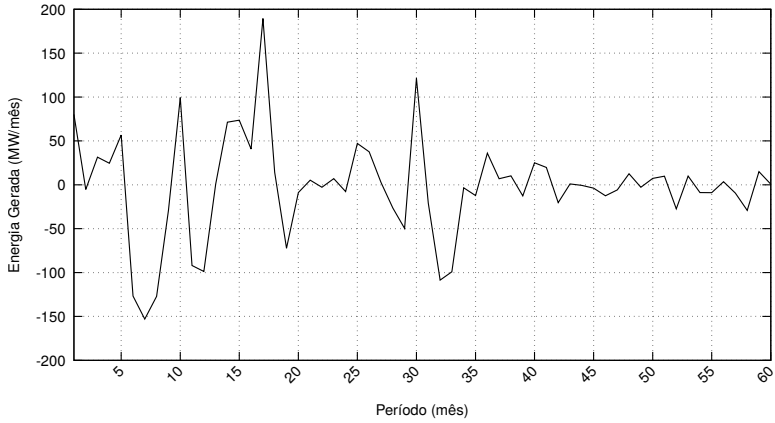
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

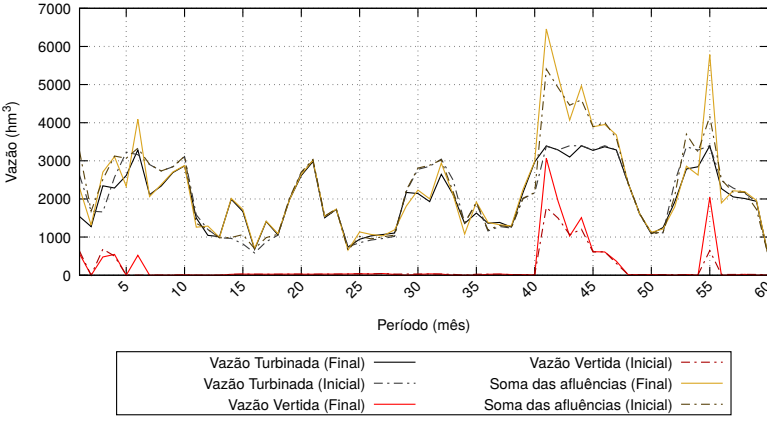
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

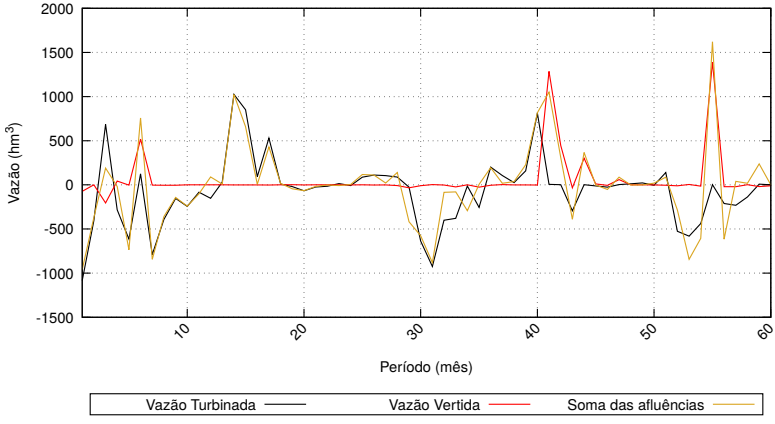
18.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



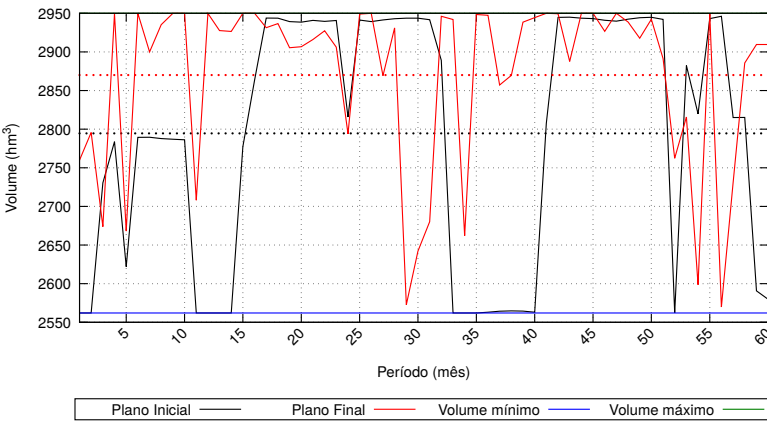
(a) CpMiPd

CpMiPd - Vazão - Diferença



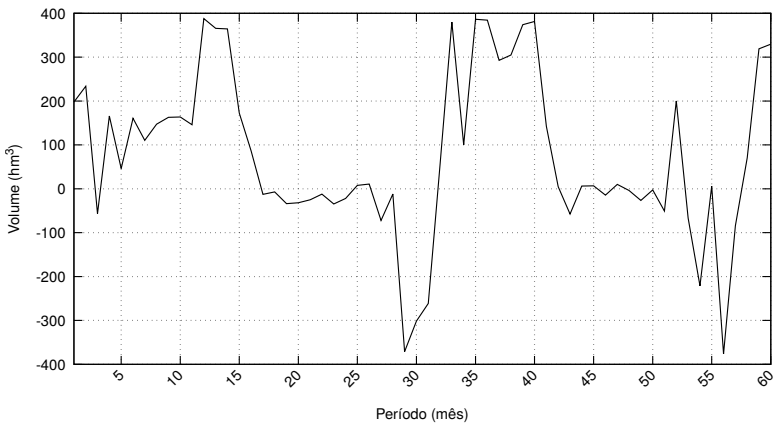
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



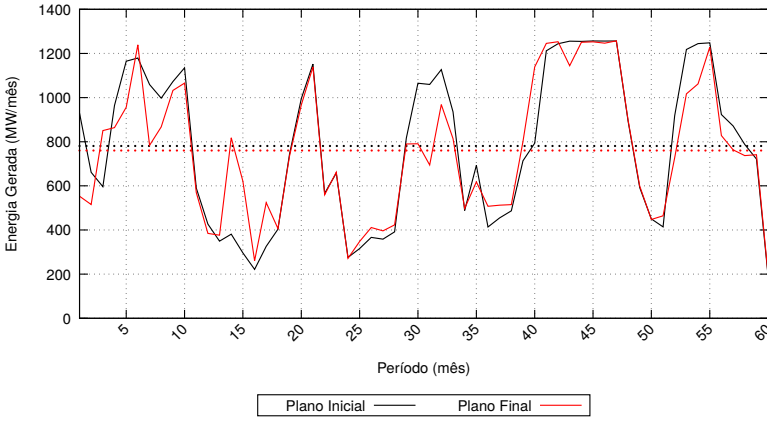
(a) CpMiPd

CpMiPd - Volume - Diferença



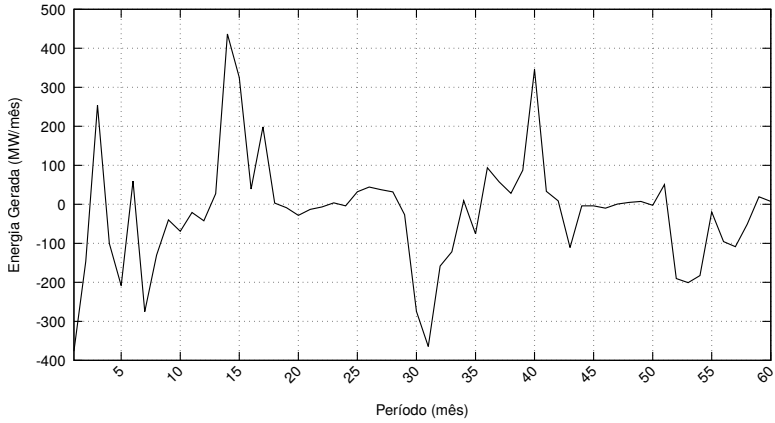
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

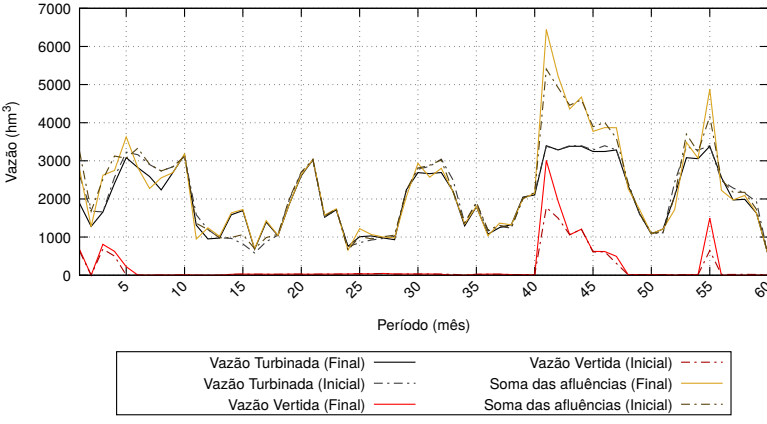
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

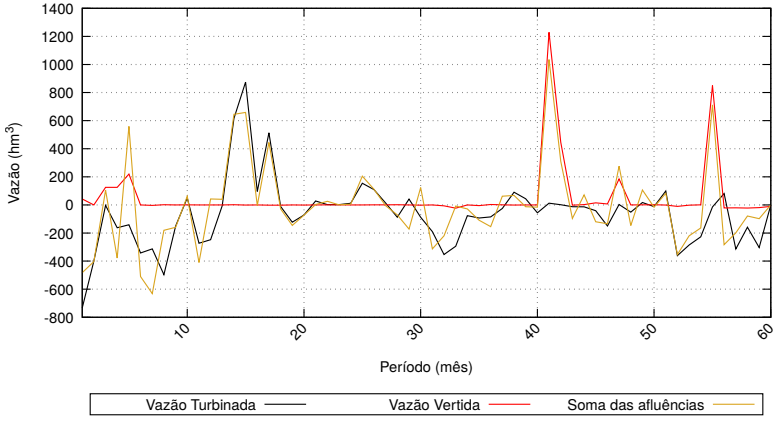
18.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



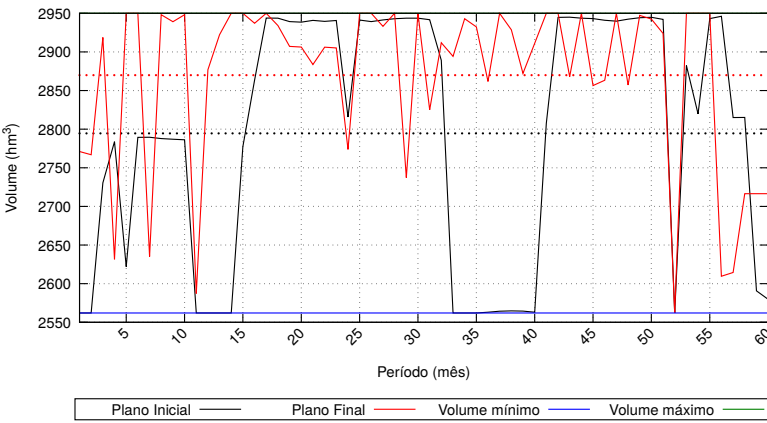
(a) CpMiPi

CpMiPi - Vazão - Diferença



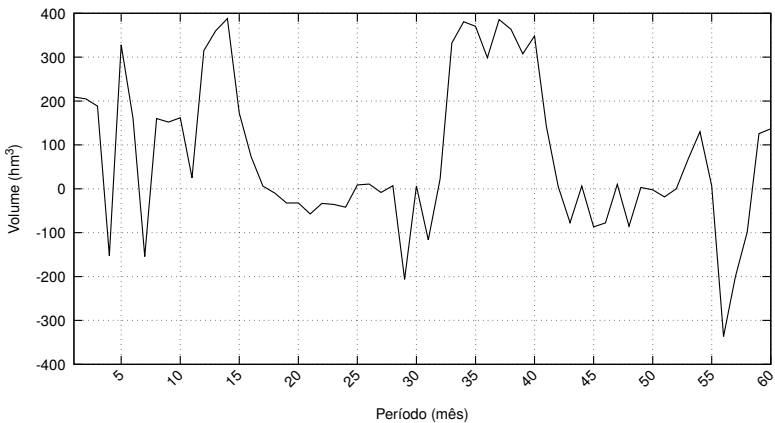
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



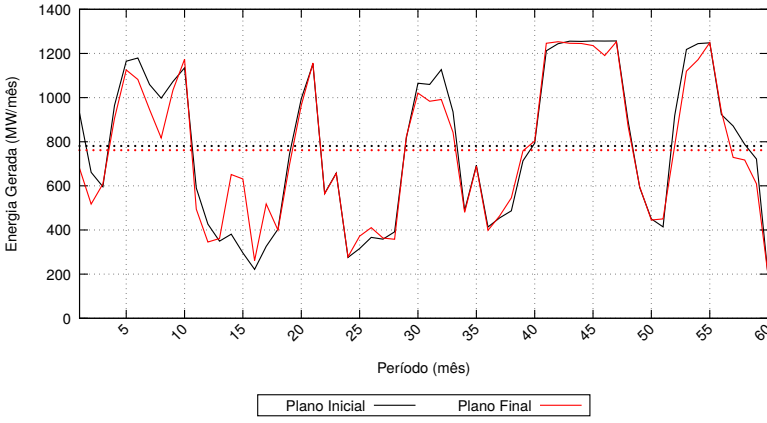
(a) CpMiPi

CpMiPi - Volume - Diferença



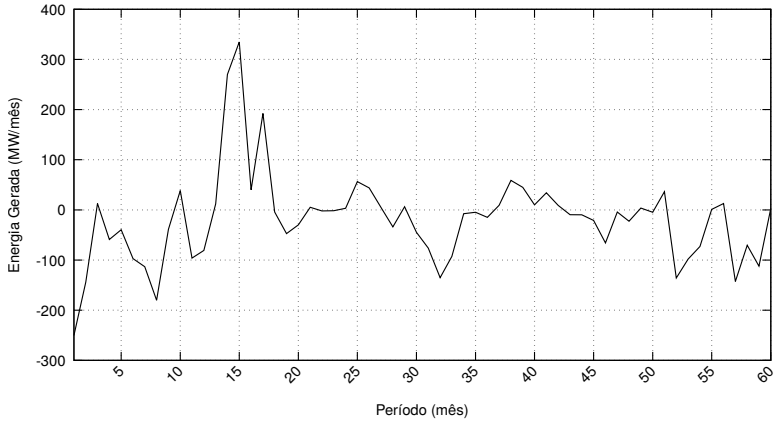
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

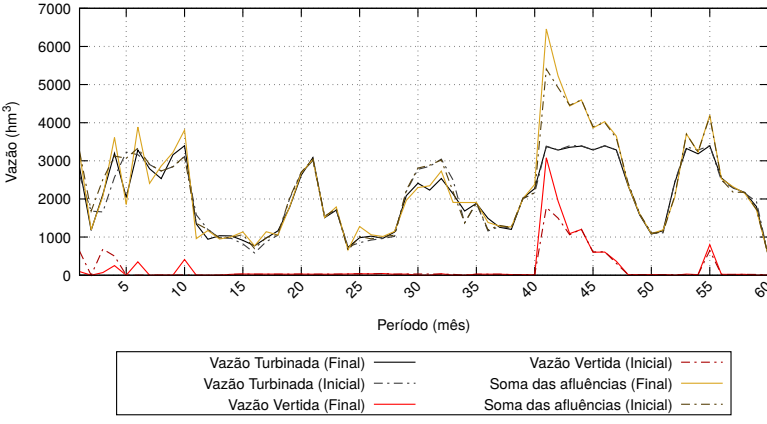
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

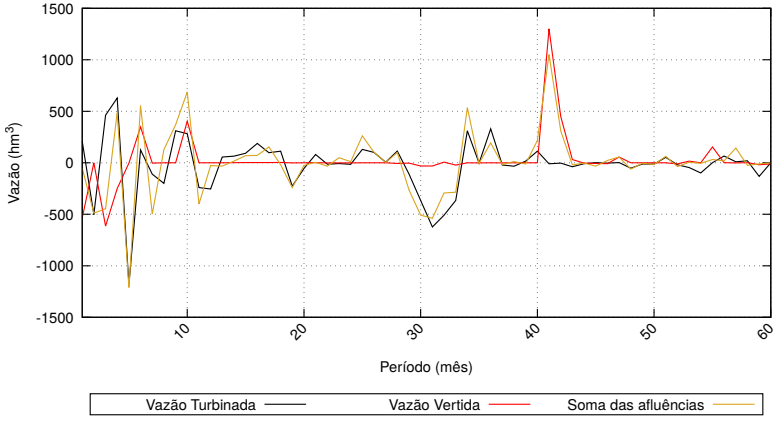
18.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



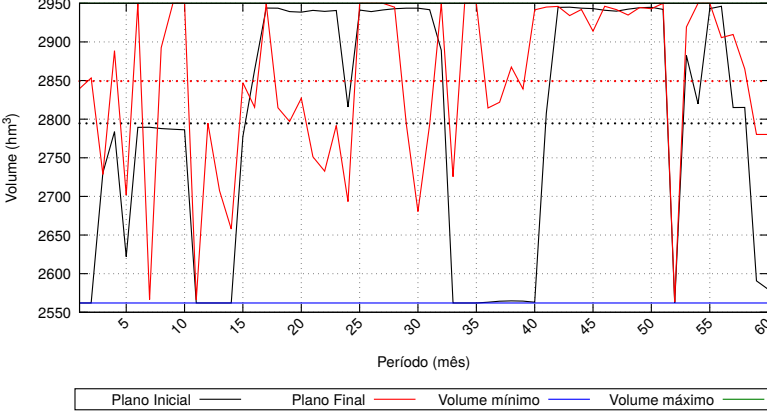
(a) SpPd

SpPd - Vazão - Diferença



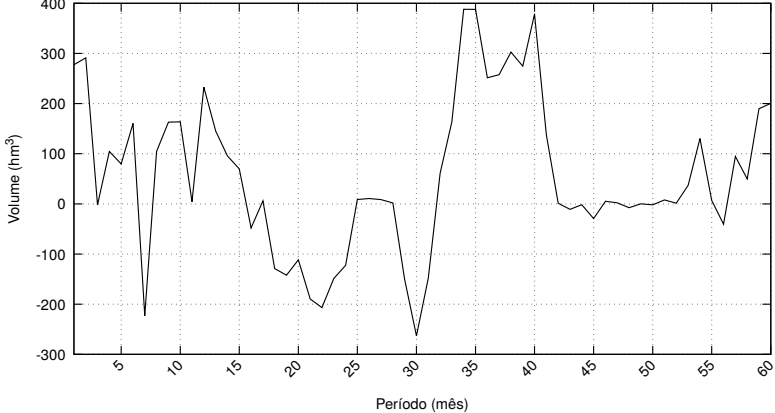
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



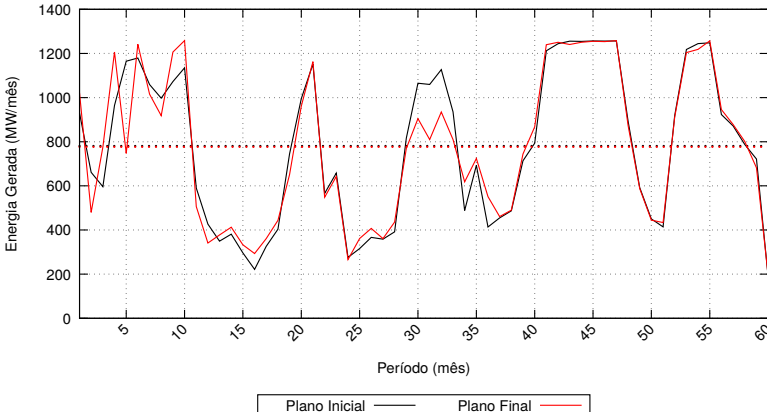
(a) SpPd

SpPd - Volume - Diferença



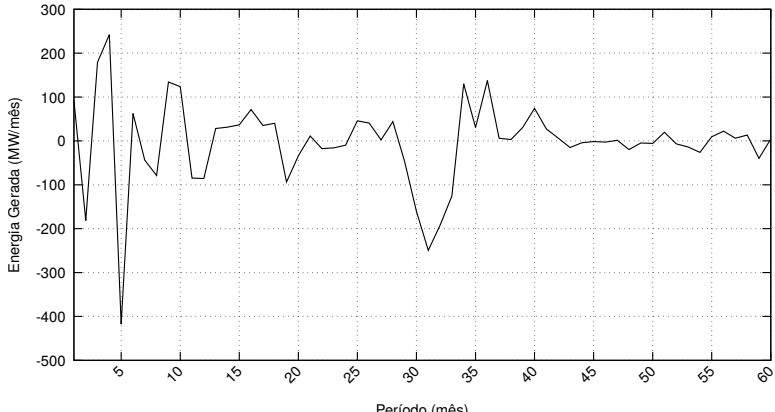
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

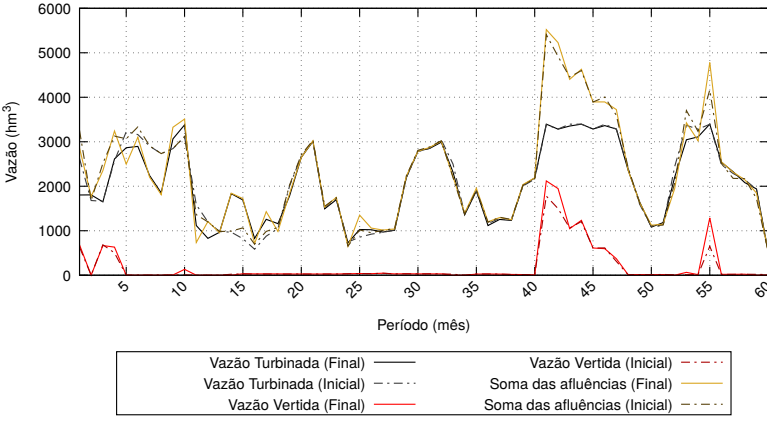
SpPd - Energia Gerada - Diferença



(b) SpPd

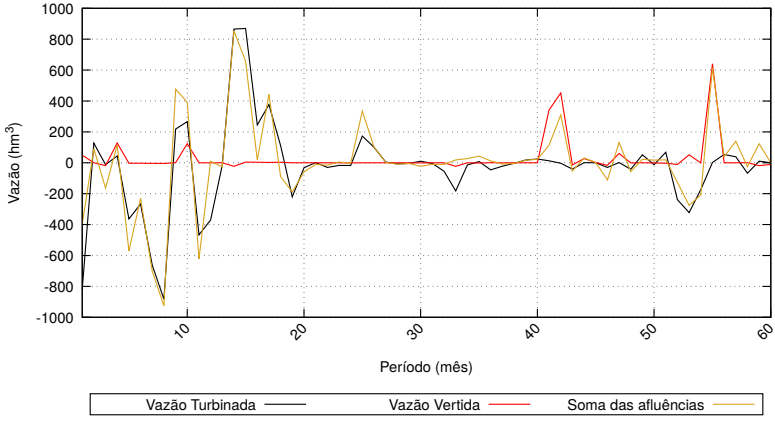
18.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



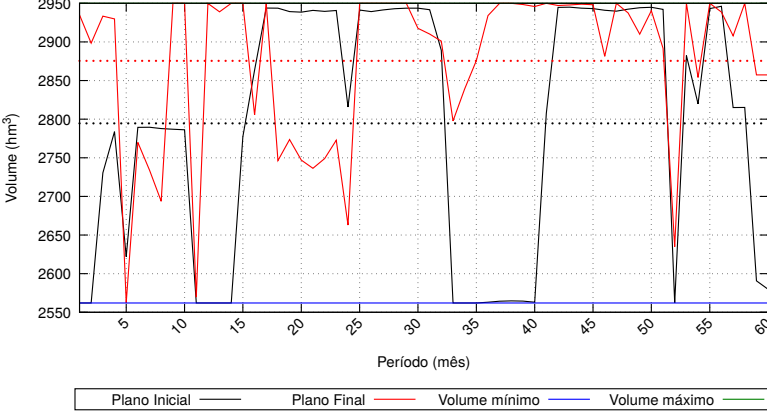
(a) SpPi

SpPi - Vazão - Diferença



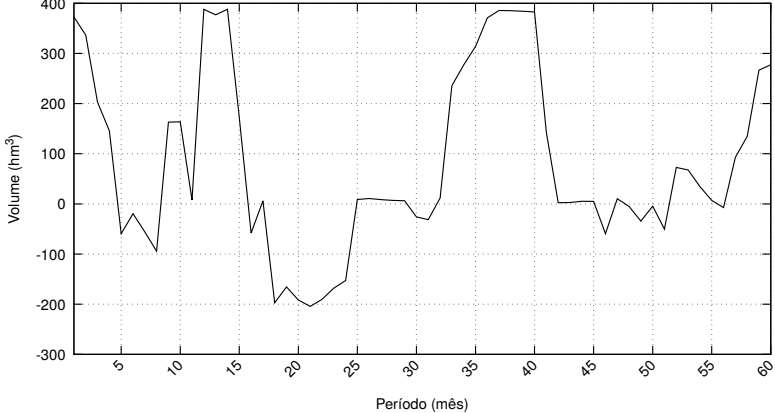
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



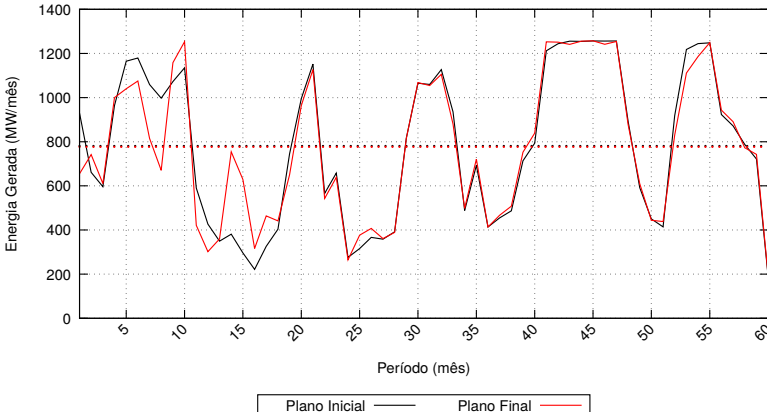
(a) SpPi

SpPi - Volume - Diferença



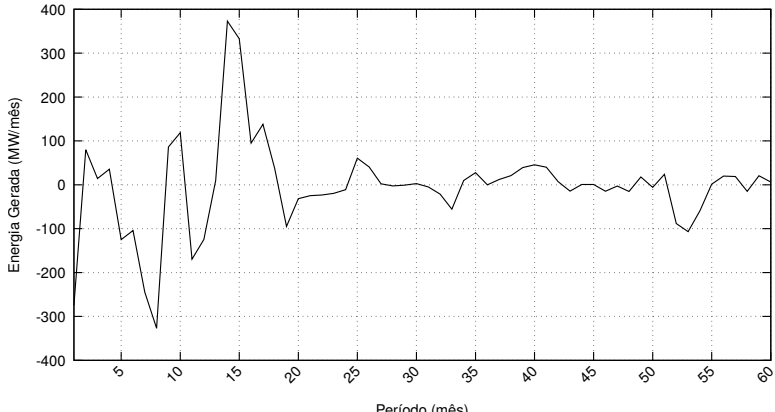
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

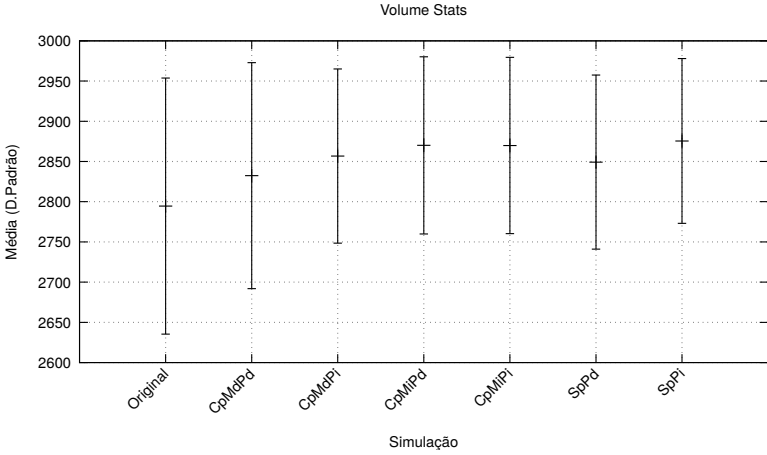
SpPi - Energia Gerada - Diferença



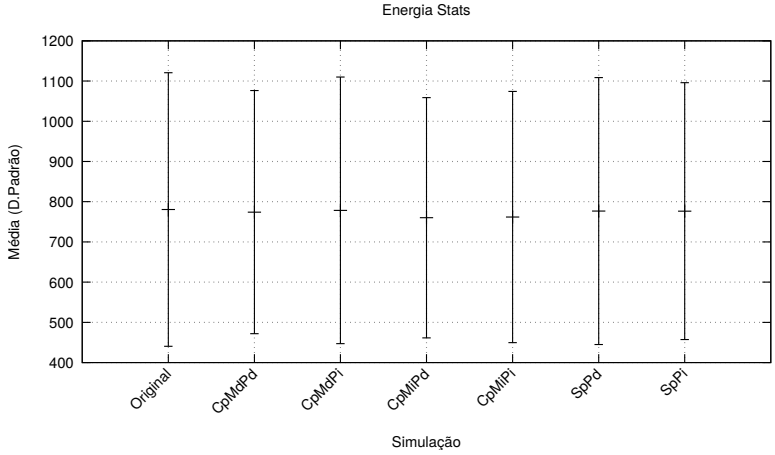
(b) SpPi

Tabela 23: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	2794.55057	159.18413	780.55143	340.13258
CpMdPd	2832.40997	140.49196	774.09403	302.21157
CpMdPi	2856.79534	108.30830	778.48777	331.39496
CpMiPd	2870.05906	110.14346	760.16700	298.68102
CpMiPi	2869.89654	109.56262	761.85750	312.44133
SpPd	2849.24328	108.23250	776.68780	331.84500
SpPi	2875.52683	102.38905	776.56472	319.44076

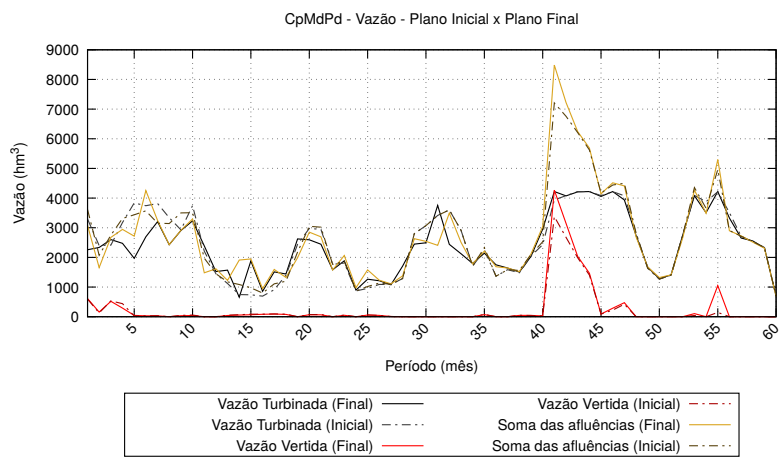


(a) Volume

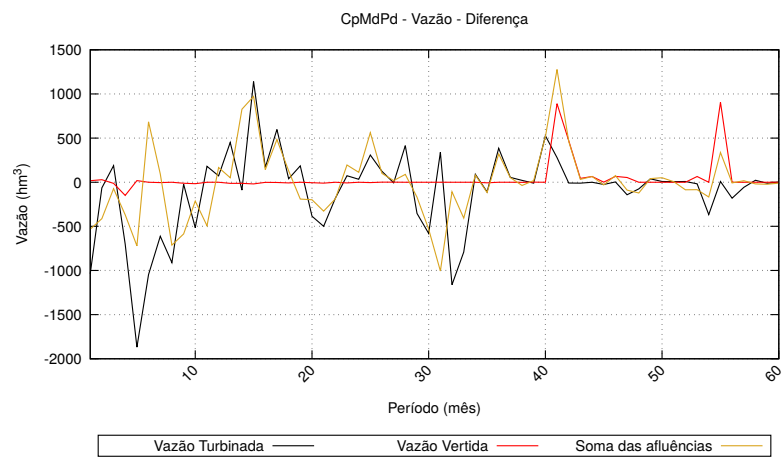


(b) Energia

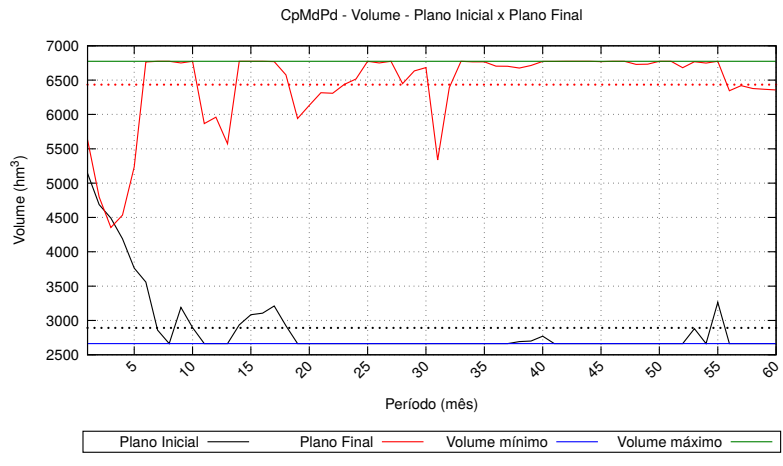
19.1 Resultados - CpMdPd



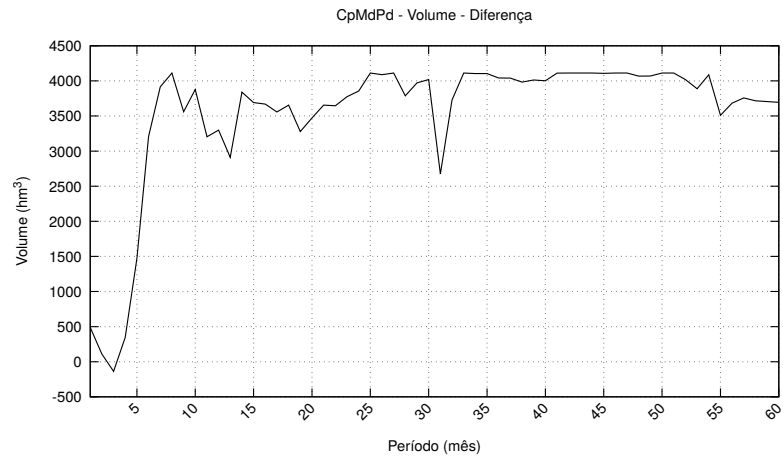
(a) CpMdPd



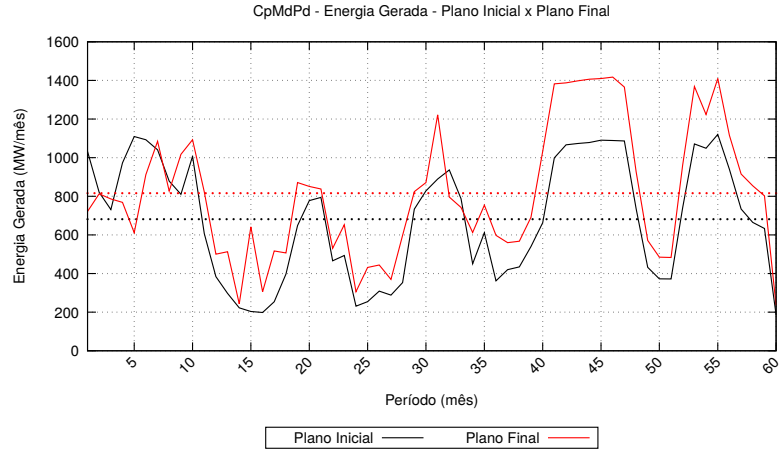
(b) CpMdPd



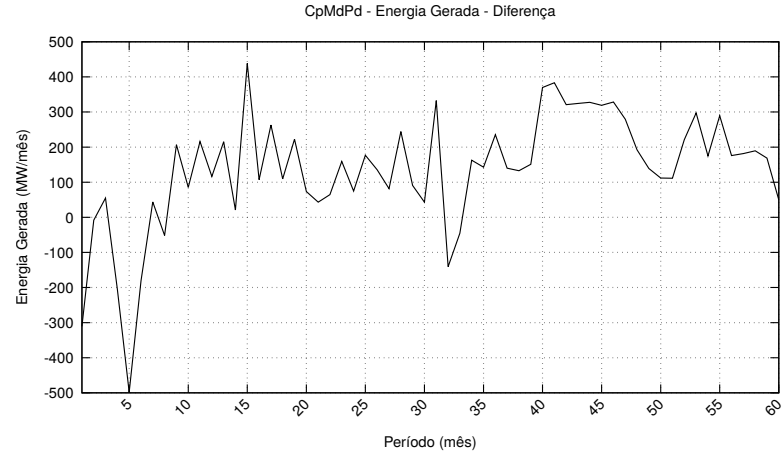
(a) CpMdPd



(b) CpMdPd



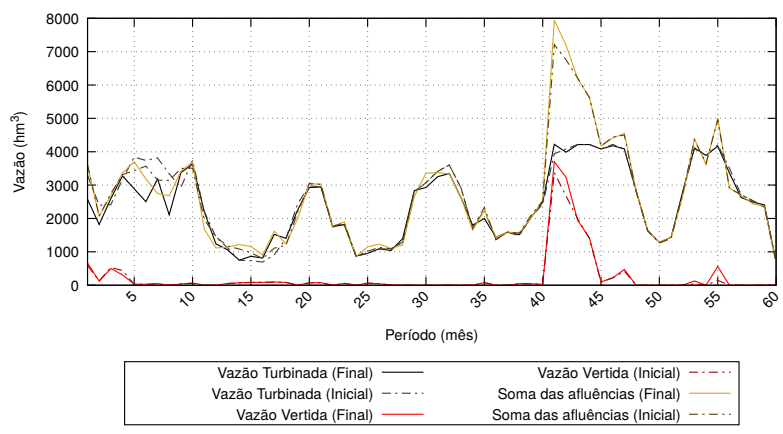
(a) CpMdPd



(b) CpMdPd

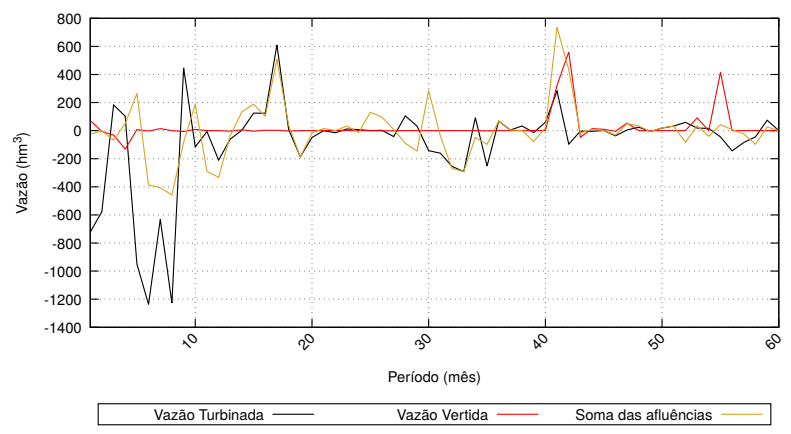
19.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



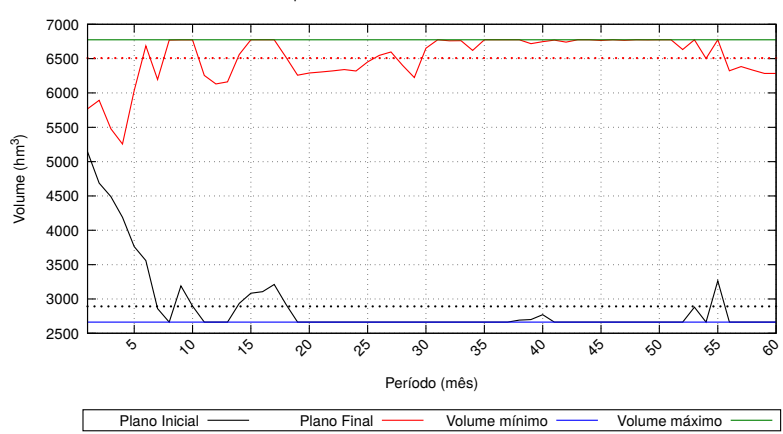
(a) CpMdPi

CpMdPi - Vazão - Diferença



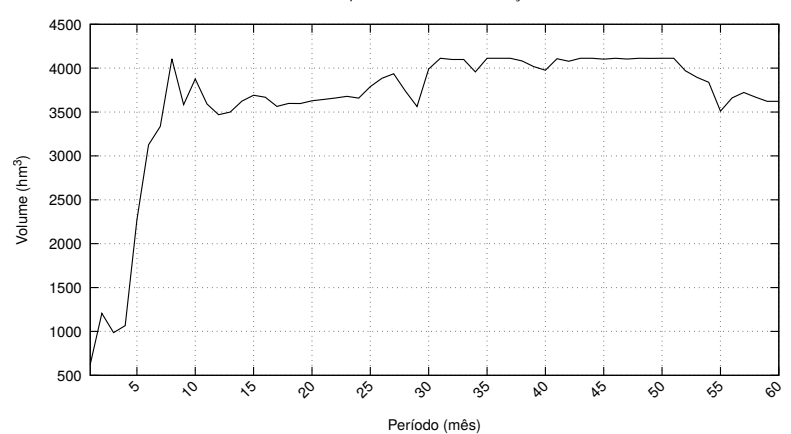
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



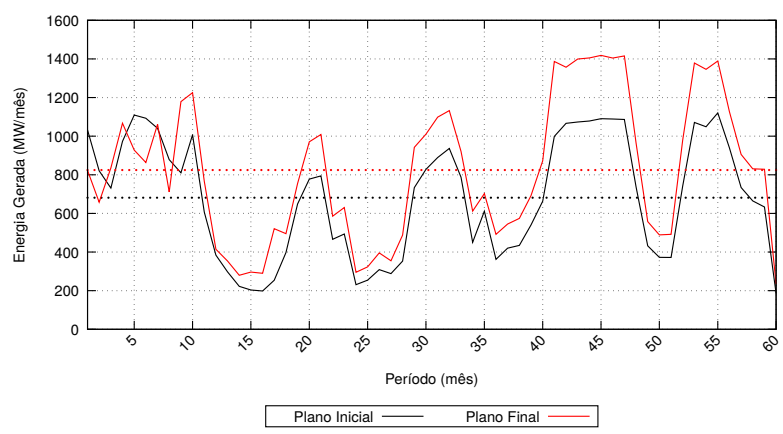
(a) CpMdPi

CpMdPi - Volume - Diferença



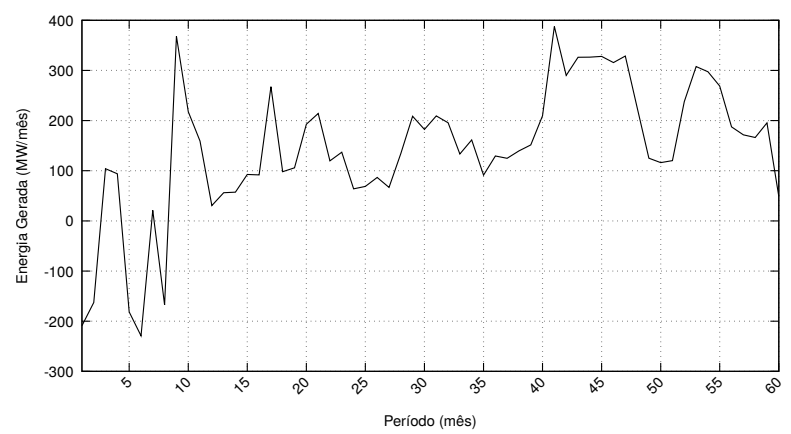
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

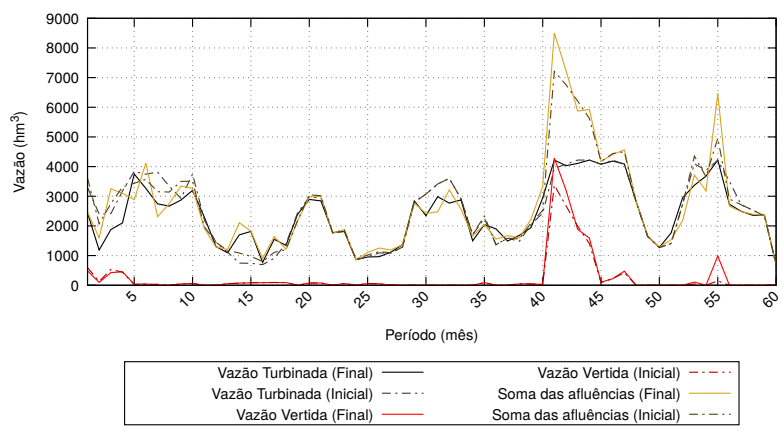
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

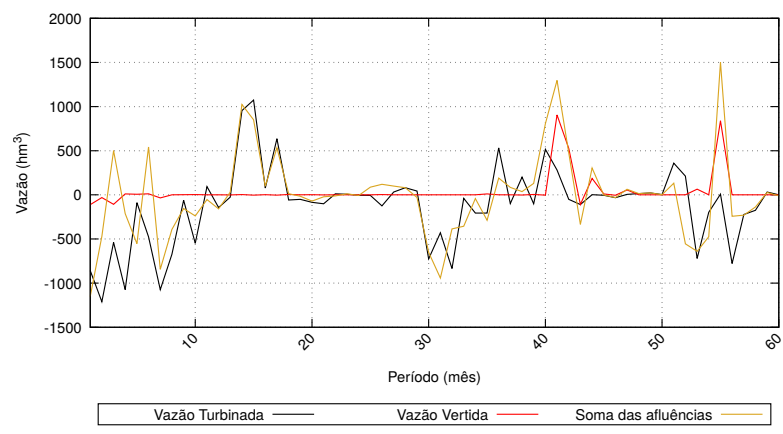
19.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



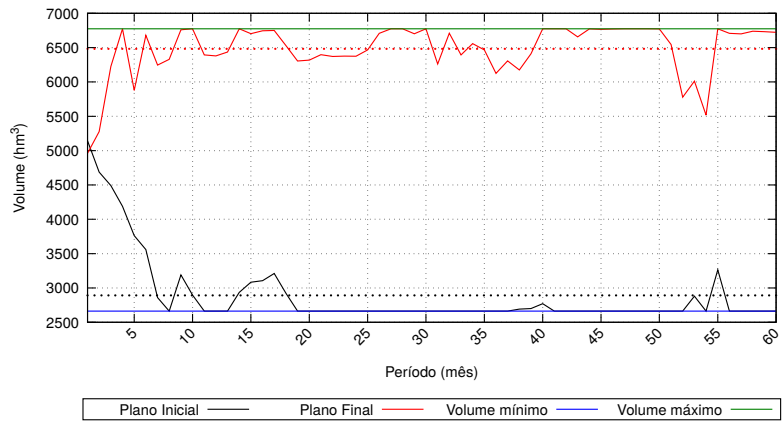
(a) CpMiPd

CpMiPd - Vazão - Diferença



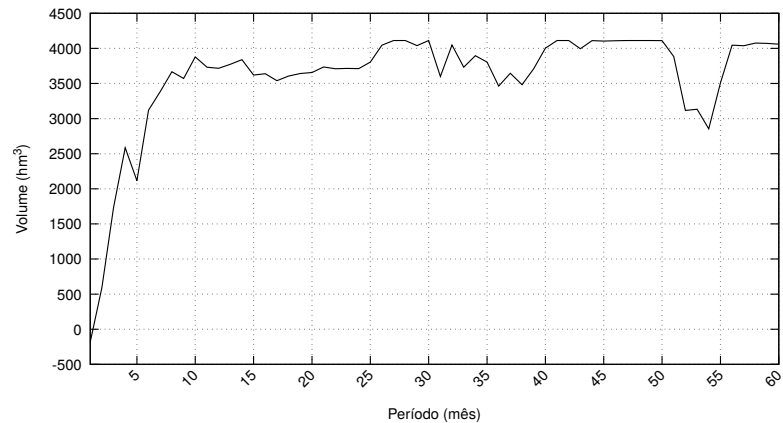
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



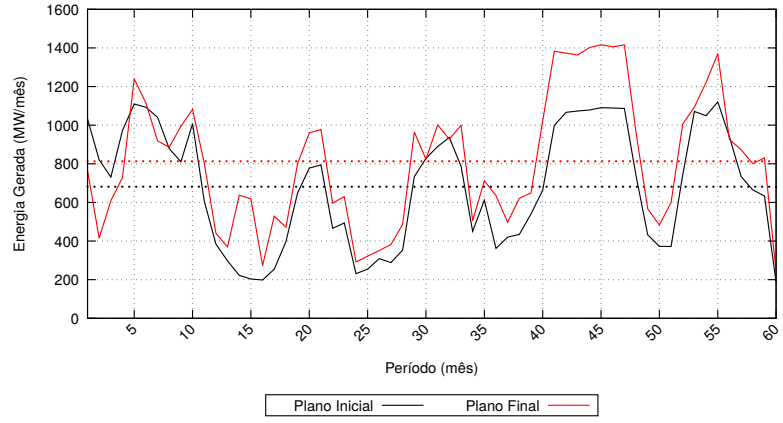
(a) CpMiPd

CpMiPd - Volume - Diferença



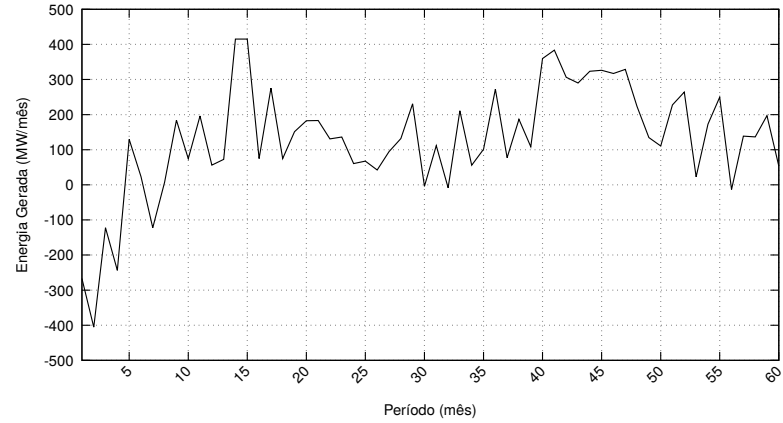
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

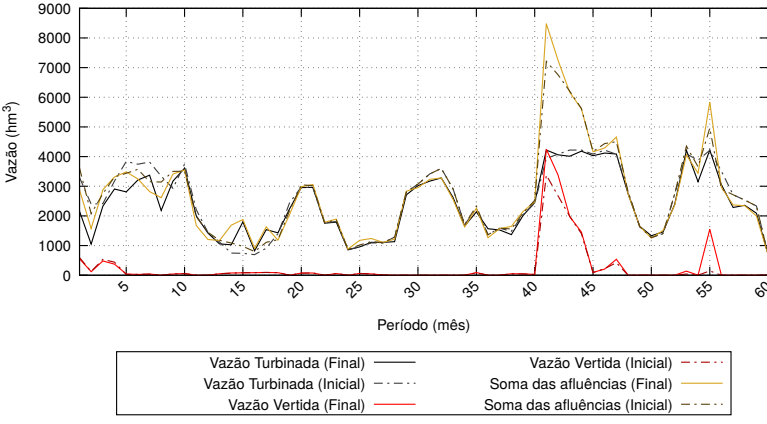
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

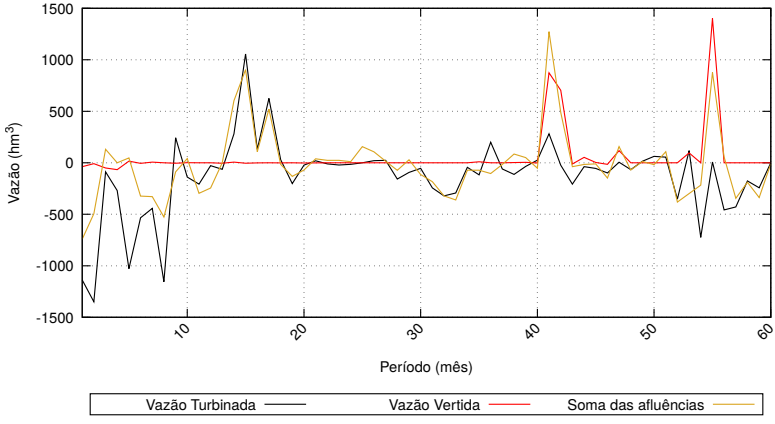
19.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



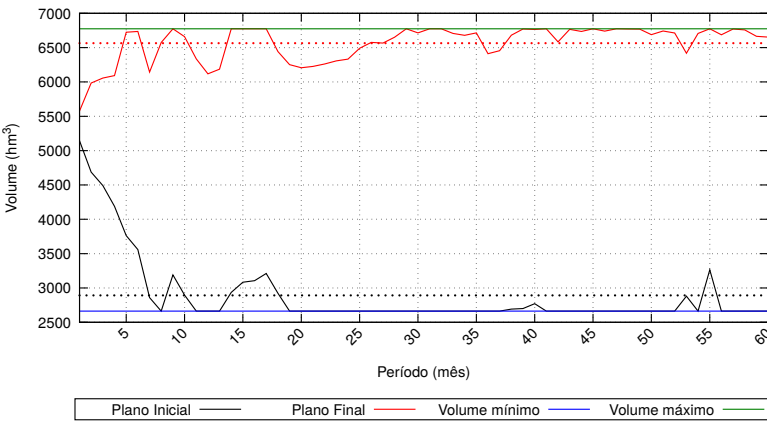
(a) CpMiPi

CpMiPi - Vazão - Diferença



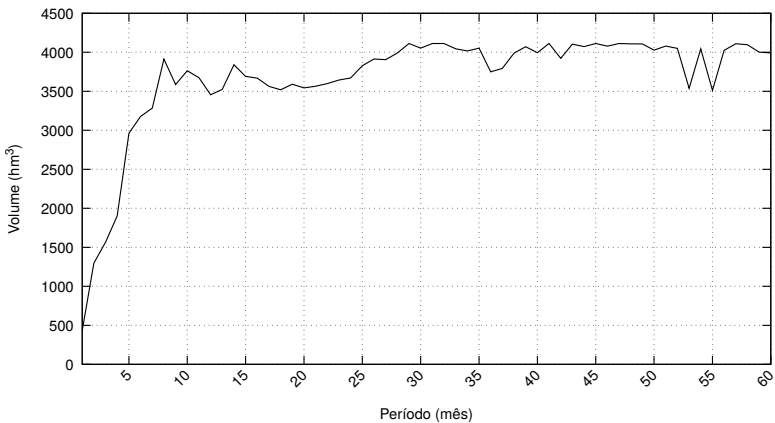
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



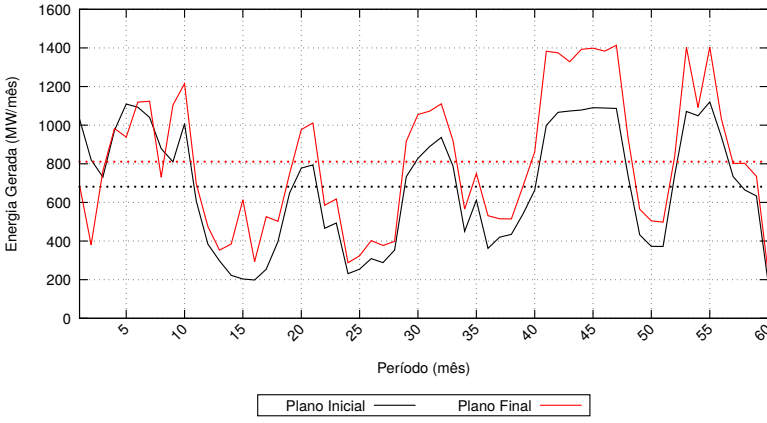
(a) CpMiPi

CpMiPi - Volume - Diferença



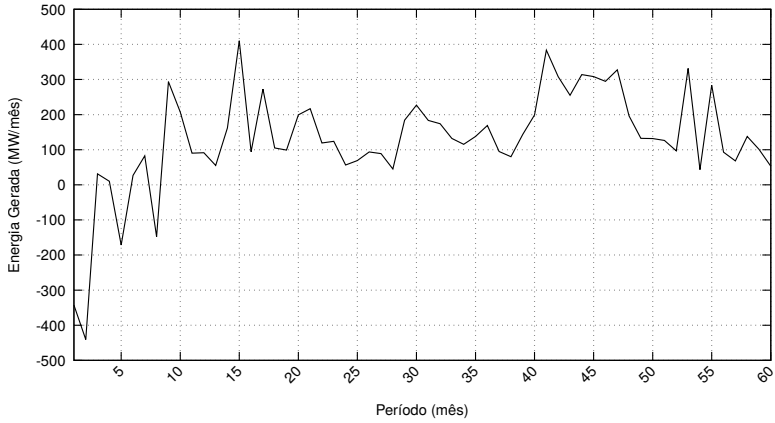
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

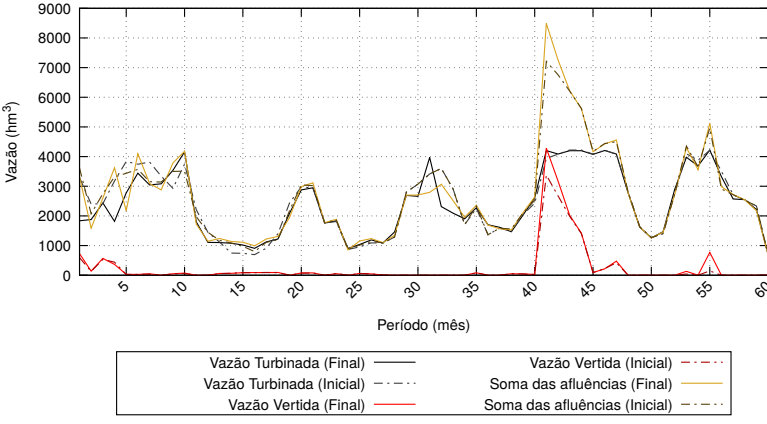
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

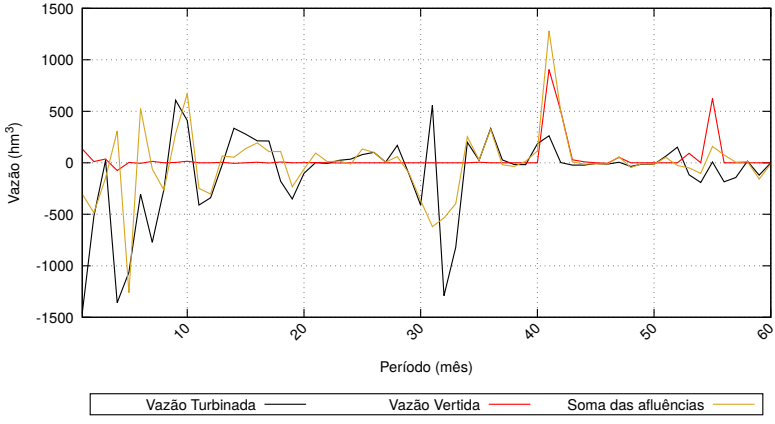
19.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



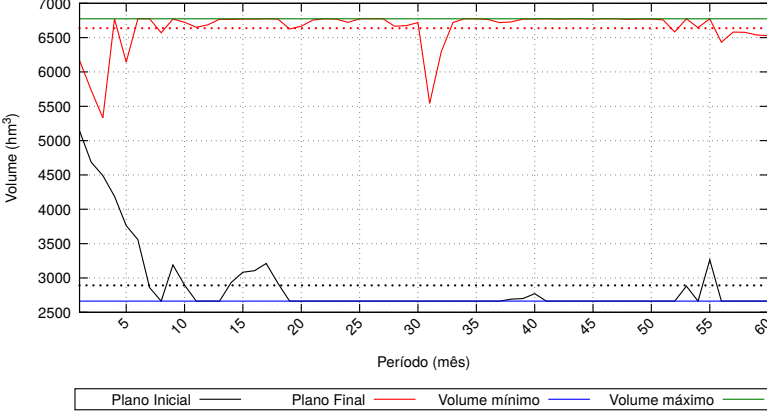
(a) SpPd

SpPd - Vazão - Diferença



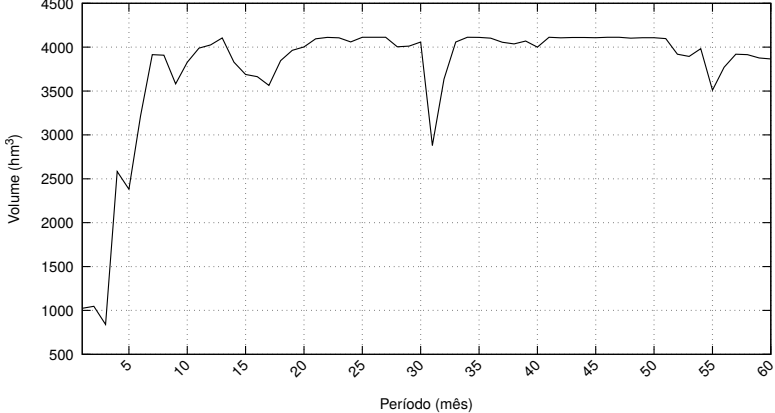
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



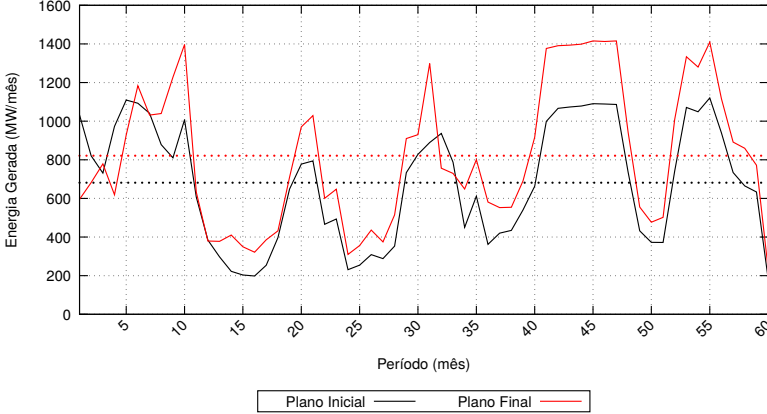
(a) SpPd

SpPd - Volume - Diferença



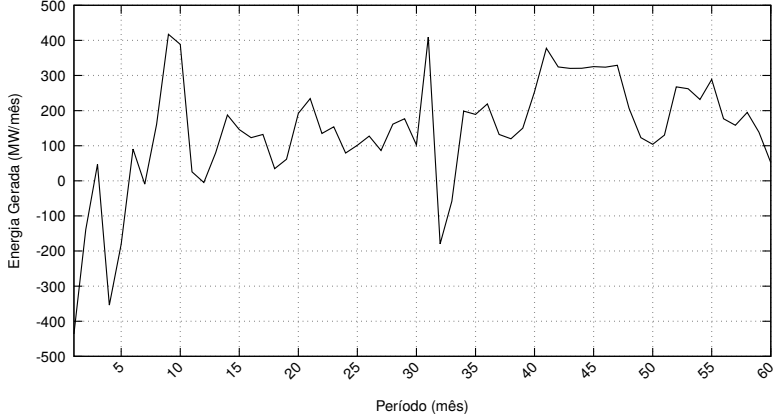
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

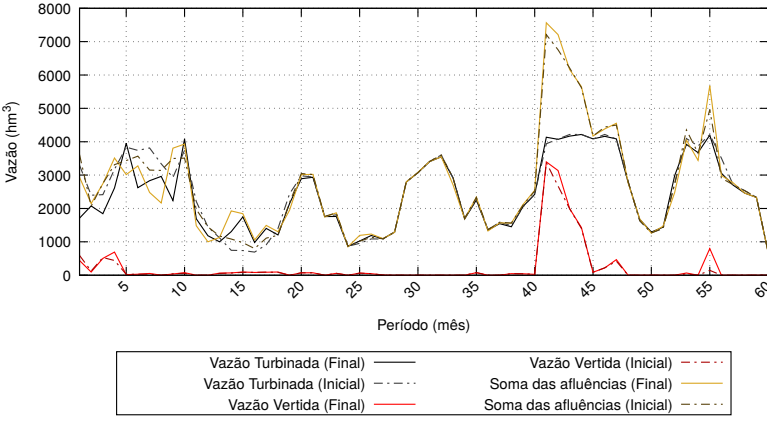
SpPd - Energia Gerada - Diferença



(b) SpPd

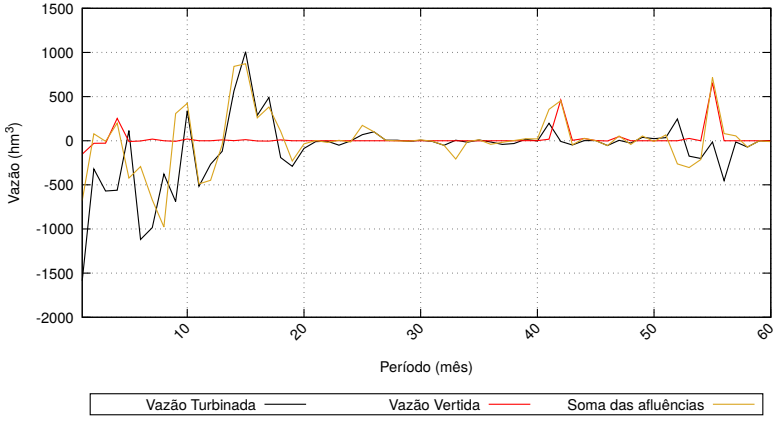
19.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



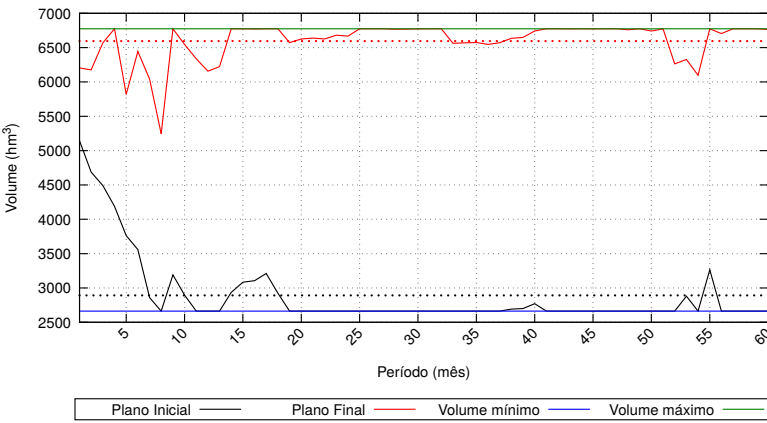
(a) SpPi

SpPi - Vazão - Diferença



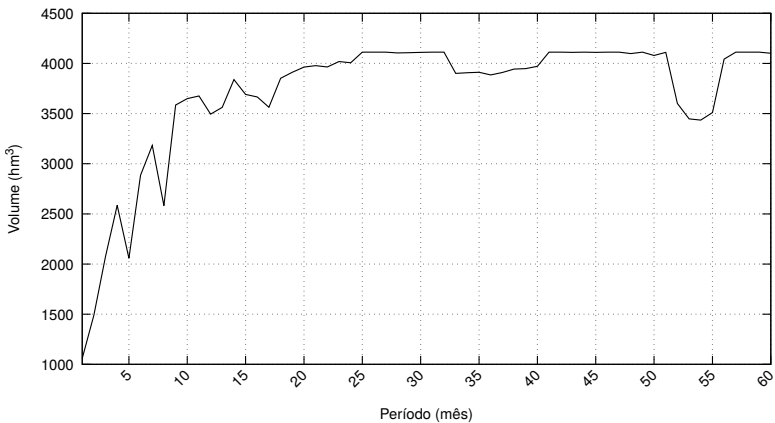
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



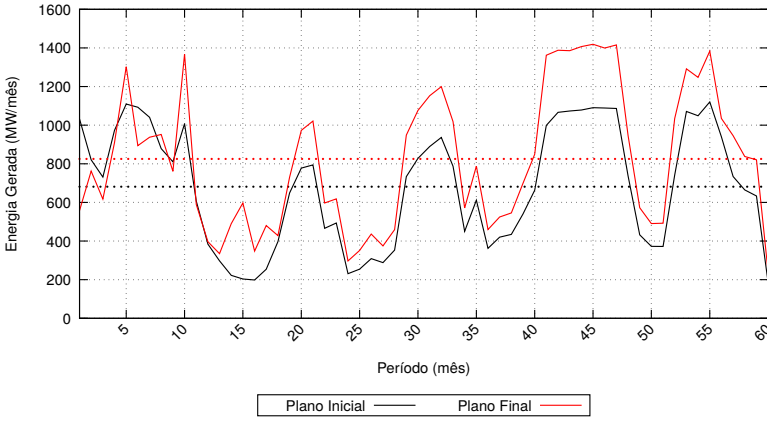
(a) SpPi

SpPi - Volume - Diferença



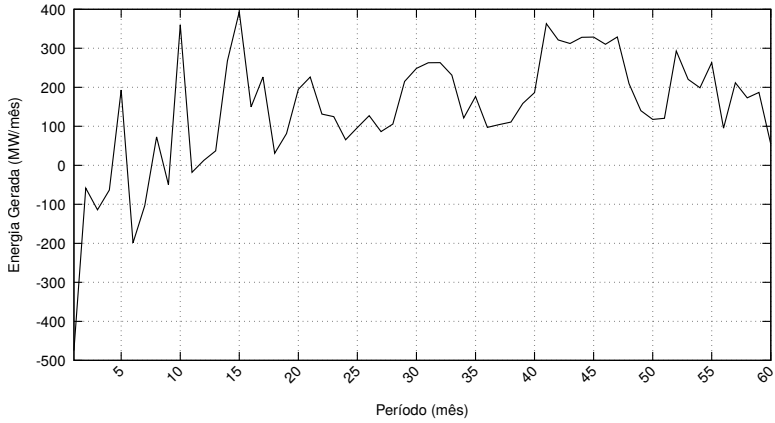
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

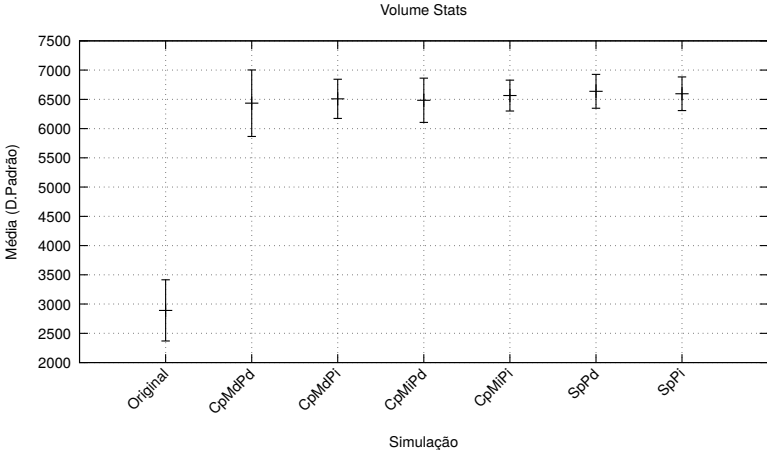
SpPi - Energia Gerada - Diferença



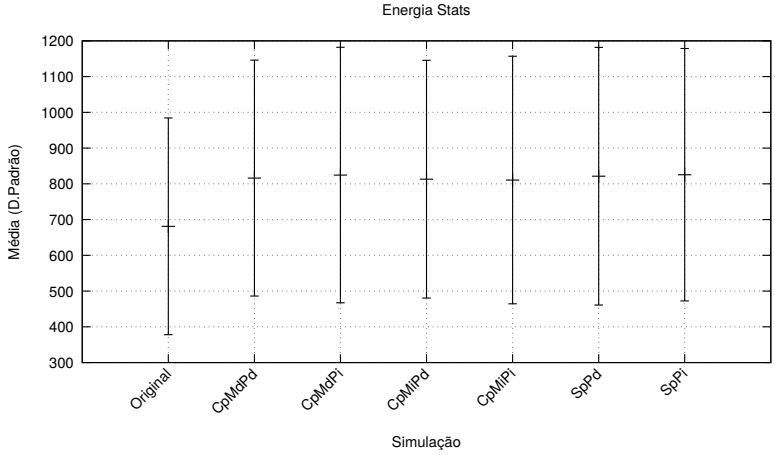
(b) SpPi

Tabela 24: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	2891.41124	522.99527	681.13310	303.05584
CpMdPd	6434.20663	568.38924	816.13614	330.09205
CpMdPi	6508.93388	334.55313	824.60298	357.32188
CpMiPd	6483.18031	378.42132	813.04171	332.57408
CpMiPi	6564.62029	263.25753	810.62003	346.19332
SpPd	6636.59825	289.59839	821.30660	360.46102
SpPi	6595.98353	287.10171	825.43966	353.11365

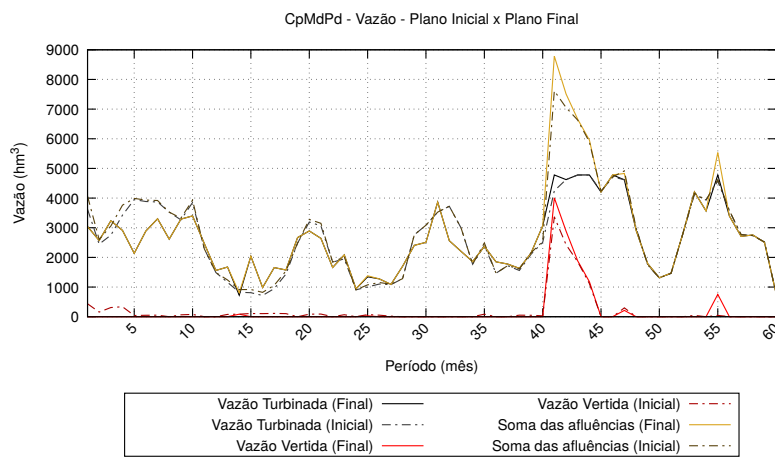


(a) Volume

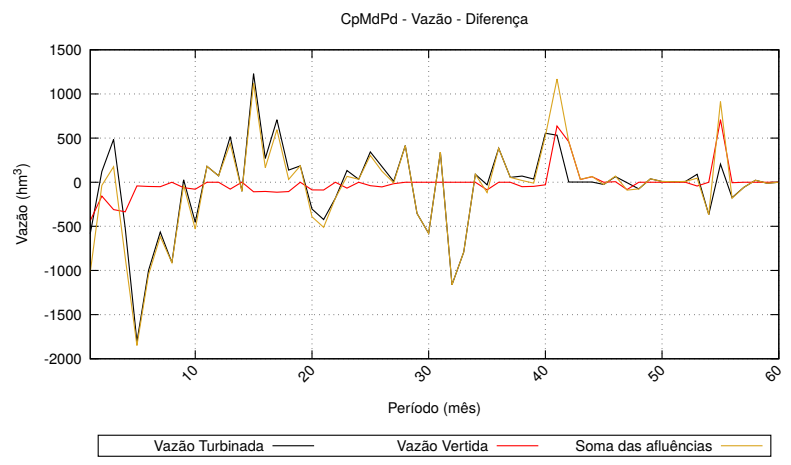


(b) Energia

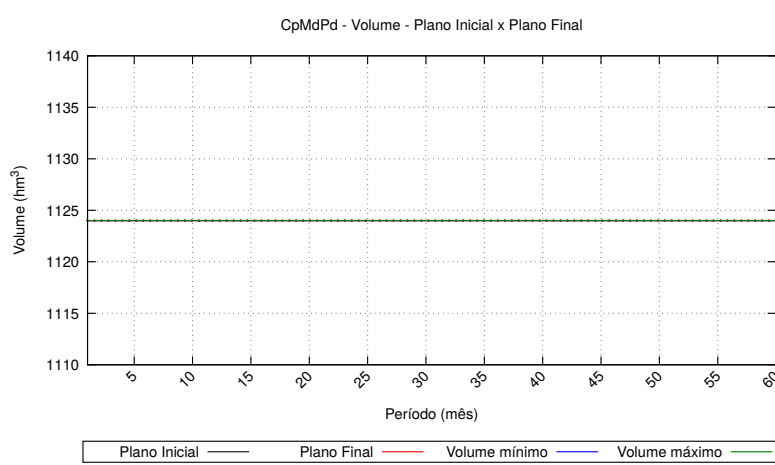
20.1 Resultados - CpMdpd



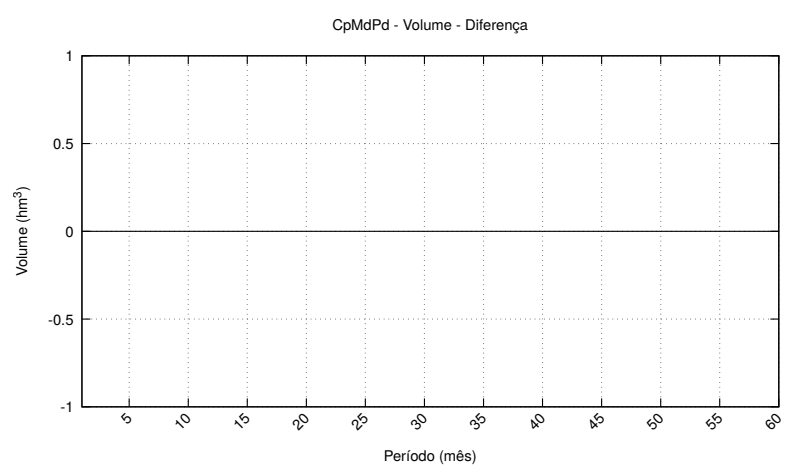
(a) CpMdpd



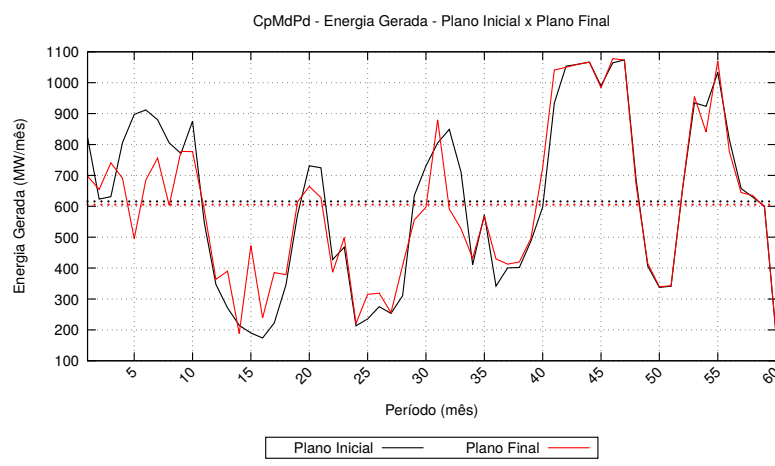
(b) CpMdpd



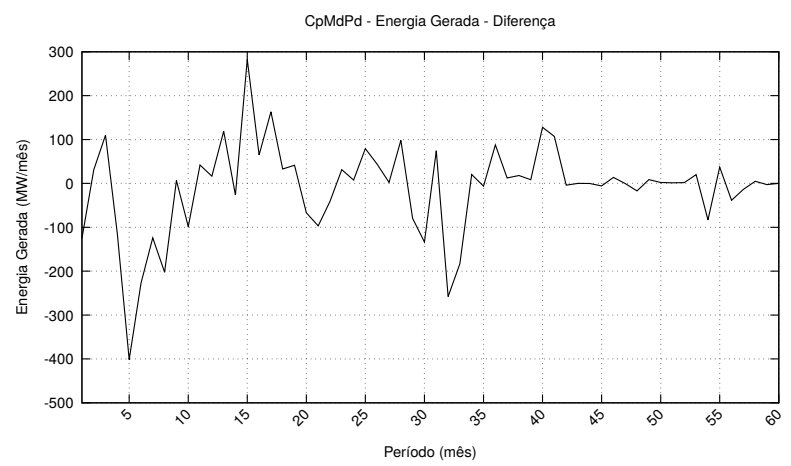
(a) CpMdpd



(b) CpMdpd



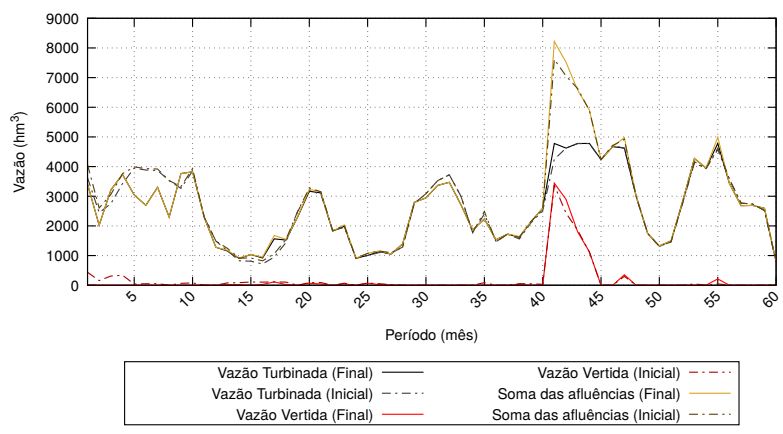
(a) CpMdpd



(b) CpMdpd

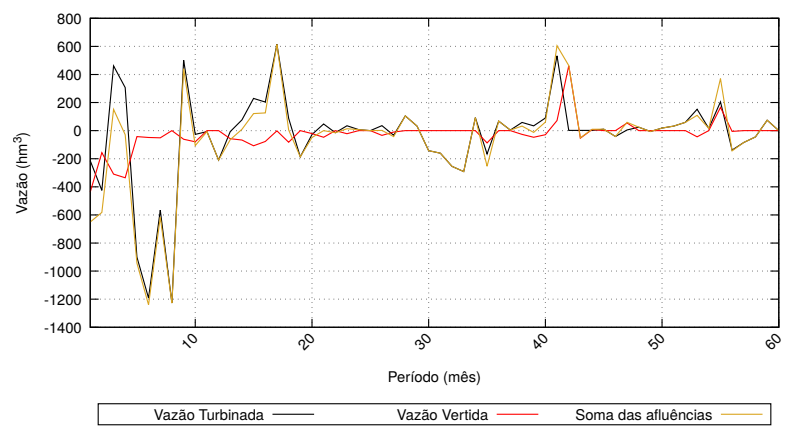
20.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



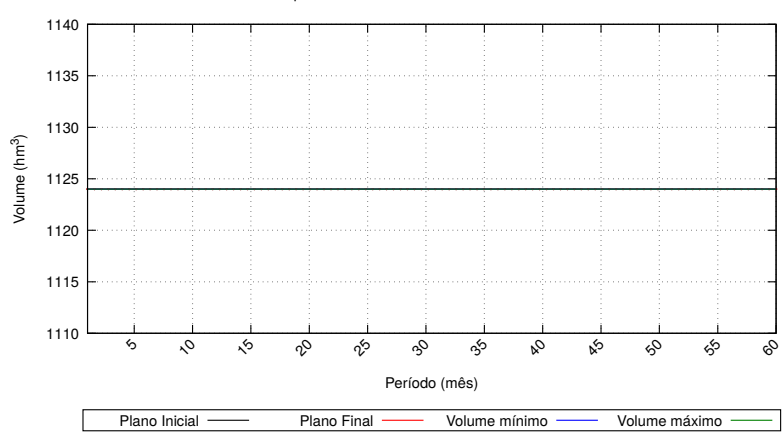
(a) CpMdPi

CpMdPi - Vazão - Diferença



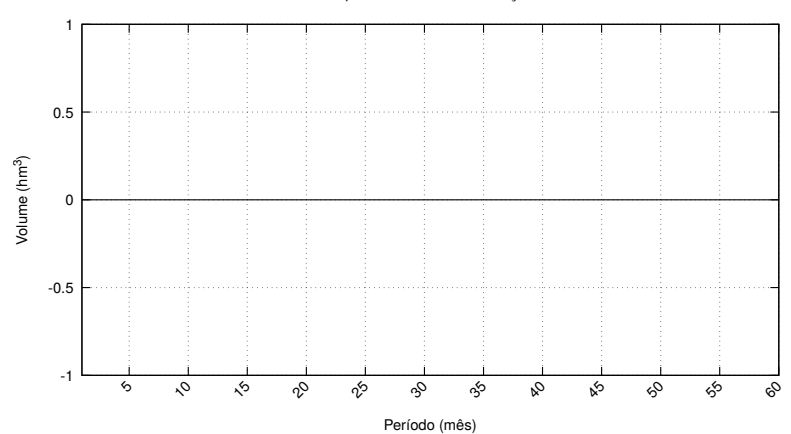
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



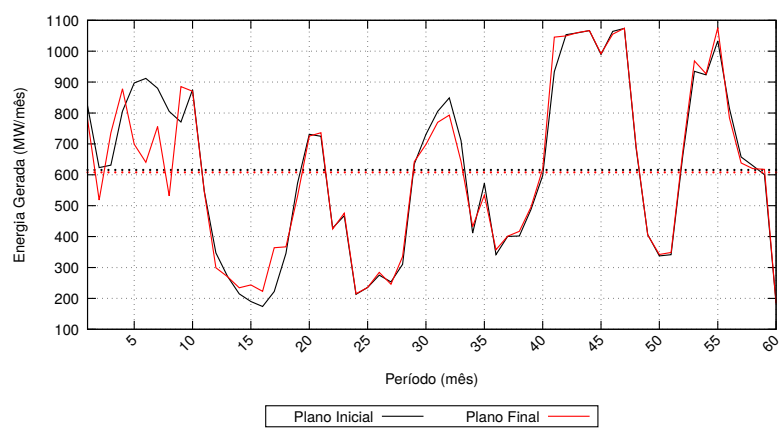
(a) CpMdPi

CpMdPi - Volume - Diferença



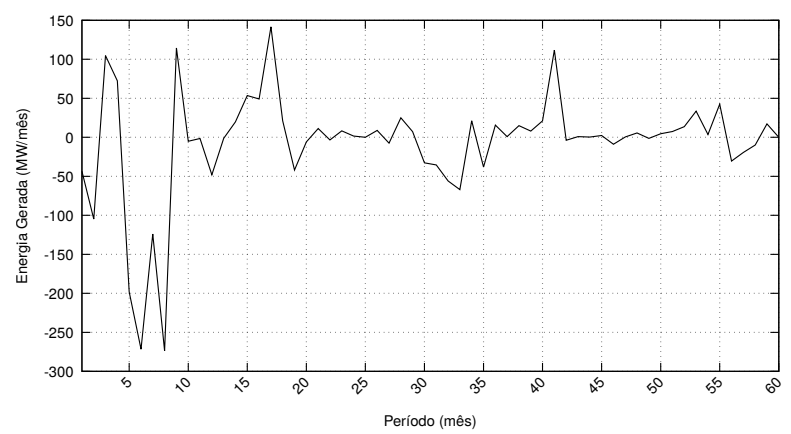
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

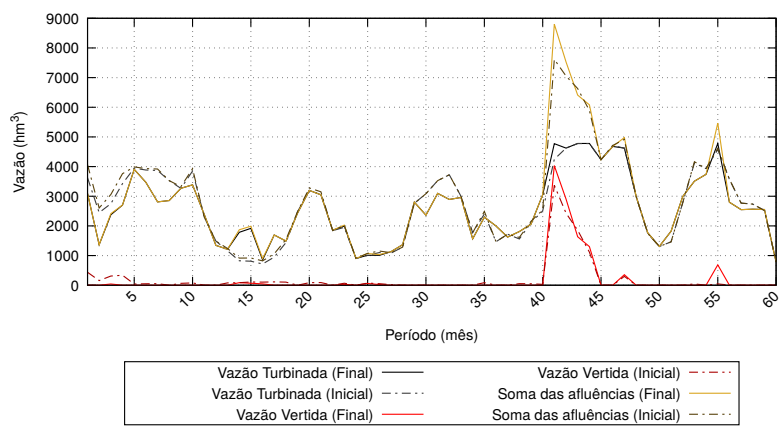
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

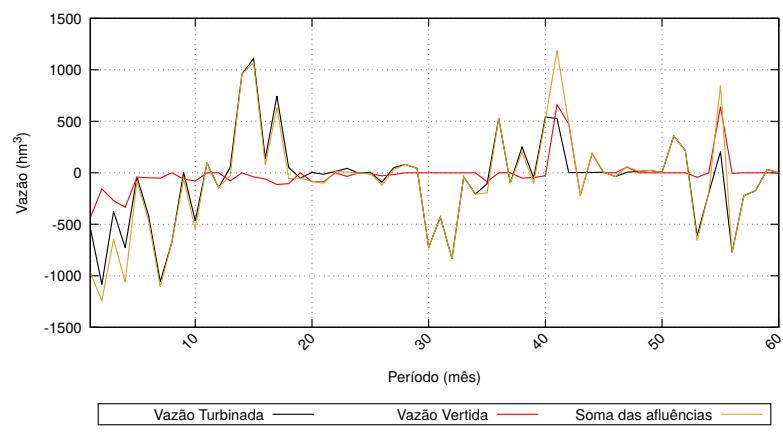
20.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



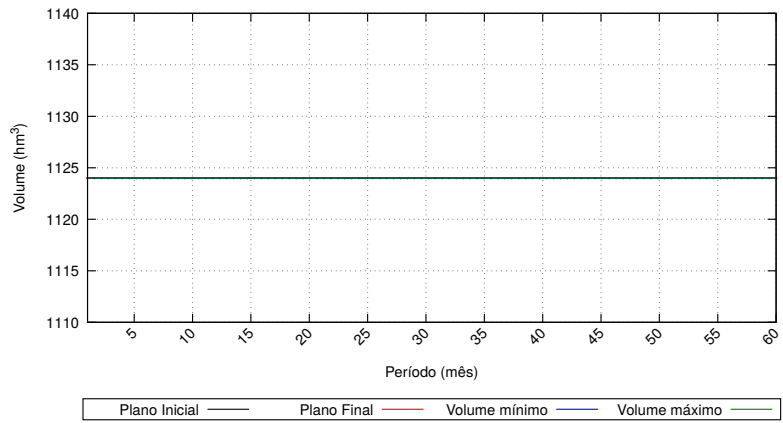
(a) CpMiPd

CpMiPd - Vazão - Diferença



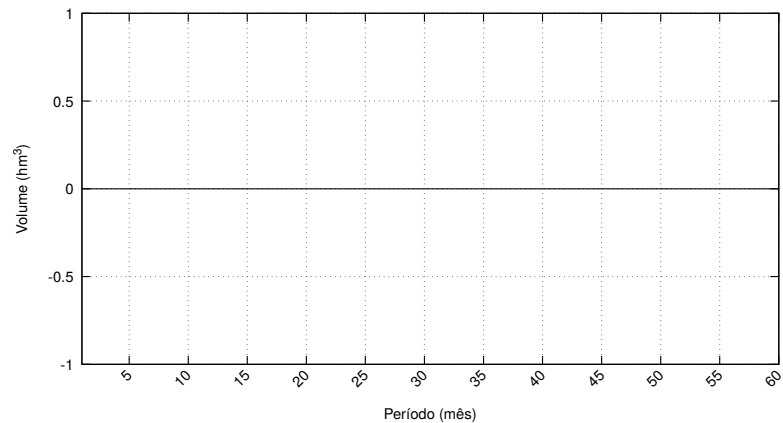
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



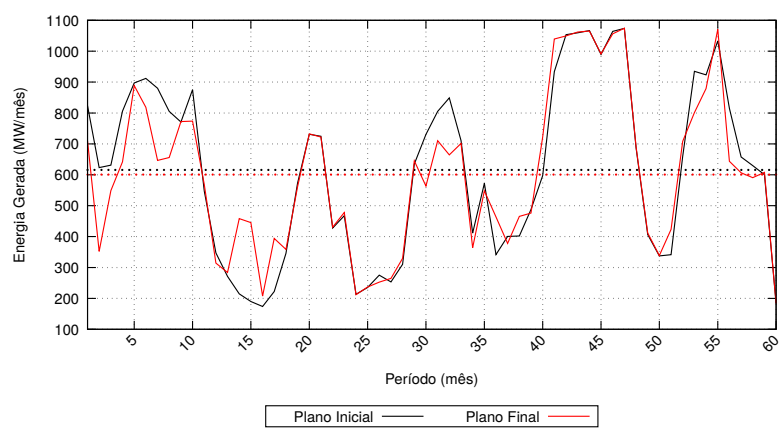
(a) CpMiPd

CpMiPd - Volume - Diferença



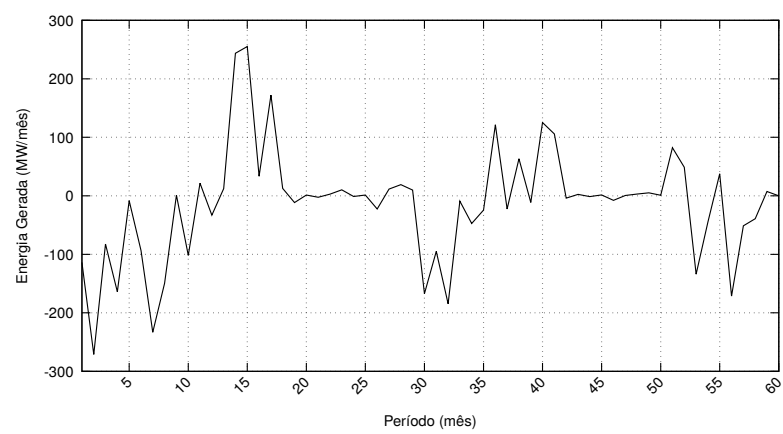
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

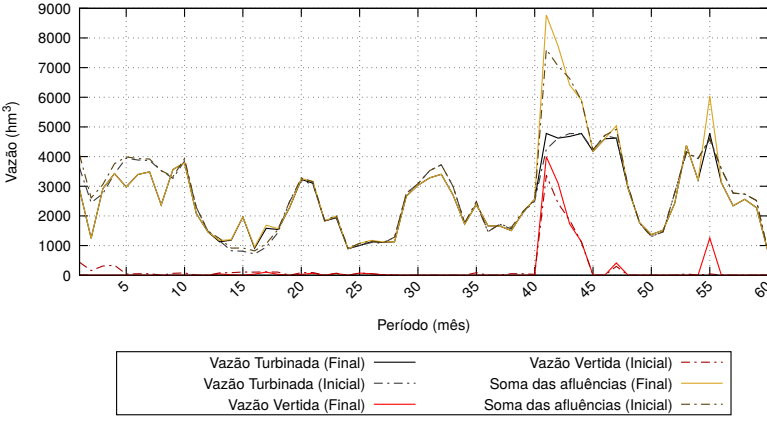
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

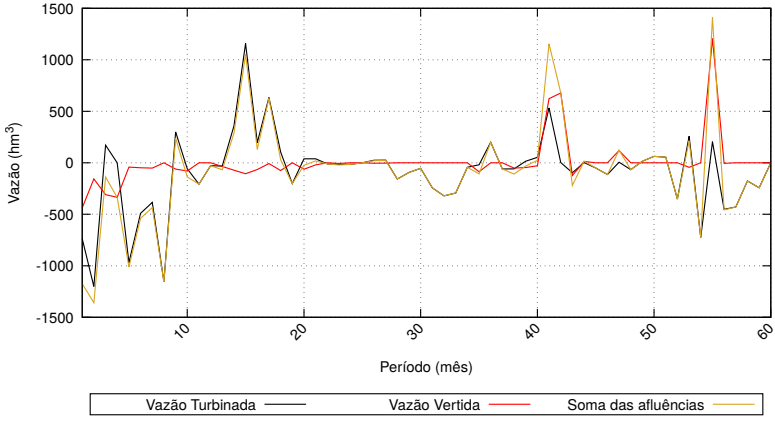
20.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



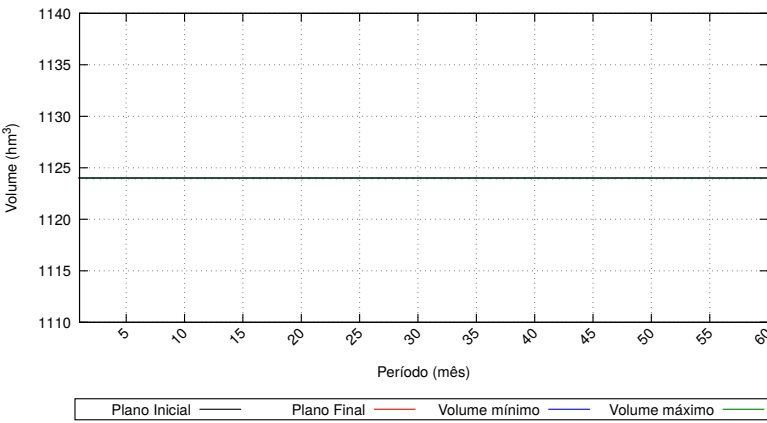
(a) CpMiPi

CpMiPi - Vazão - Diferença



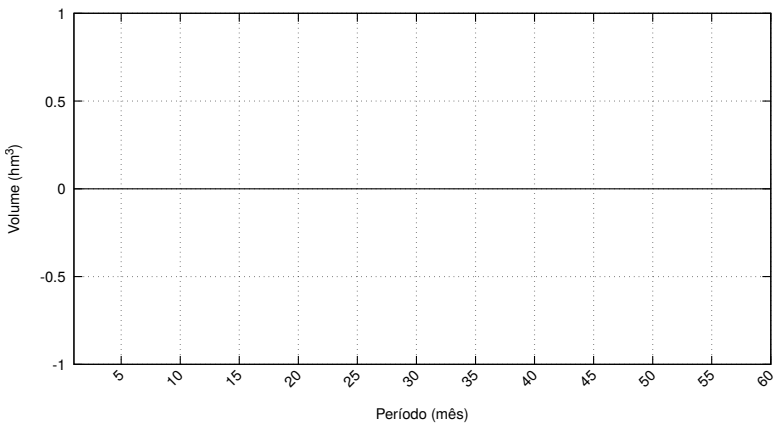
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



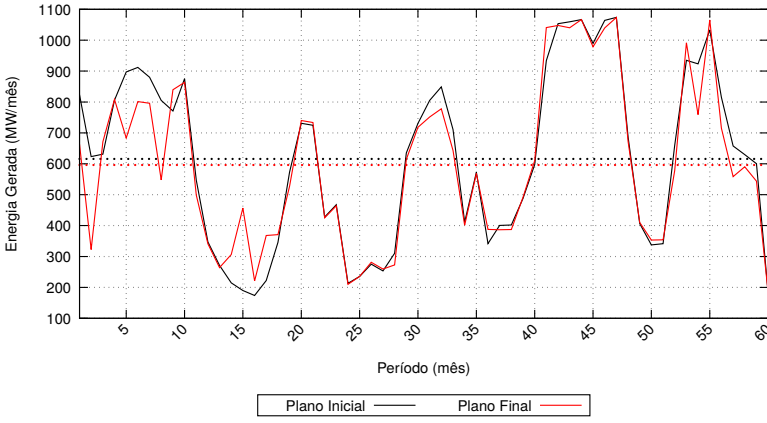
(a) CpMiPi

CpMiPi - Volume - Diferença



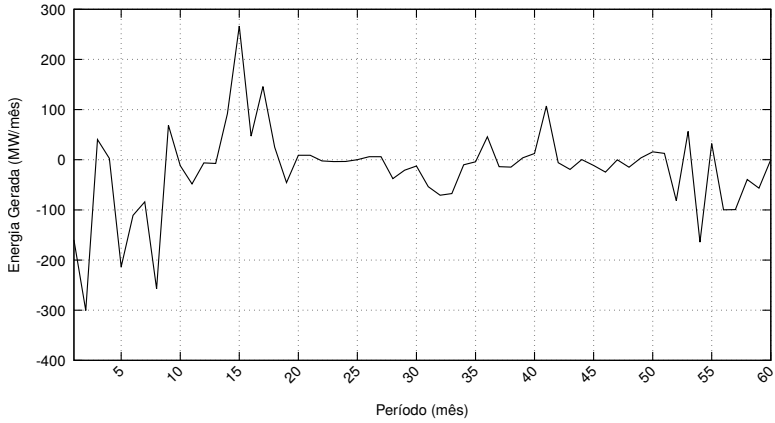
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

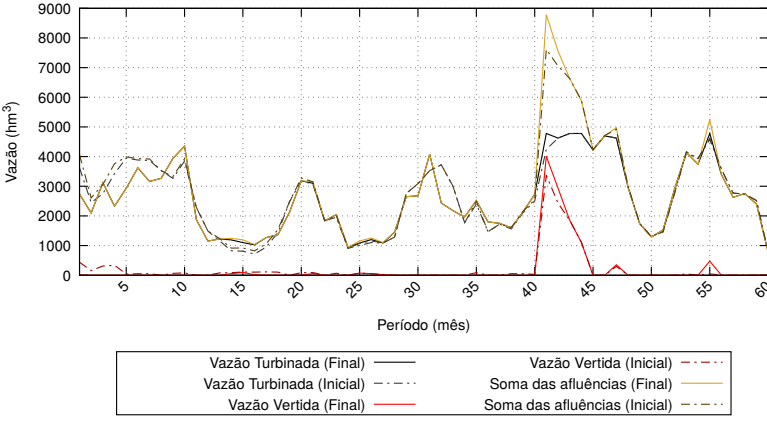
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

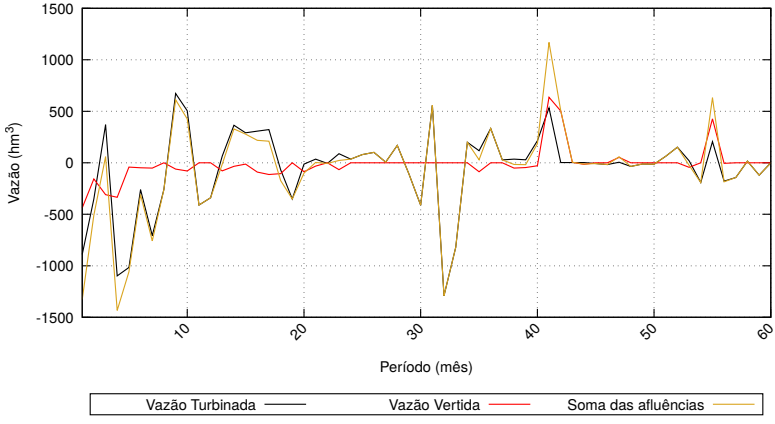
20.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



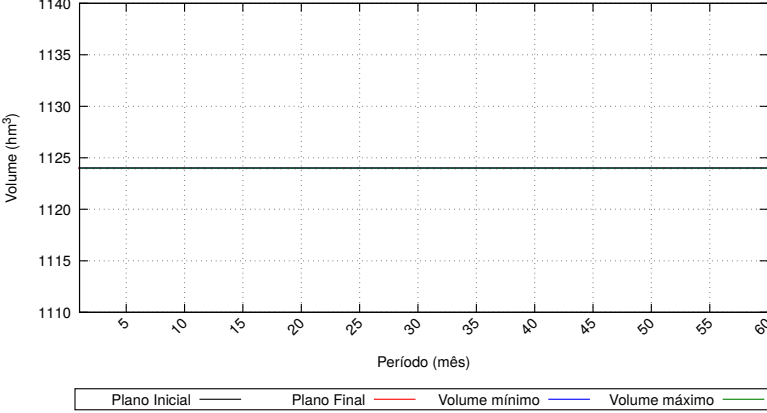
(a) SpPd

SpPd - Vazão - Diferença



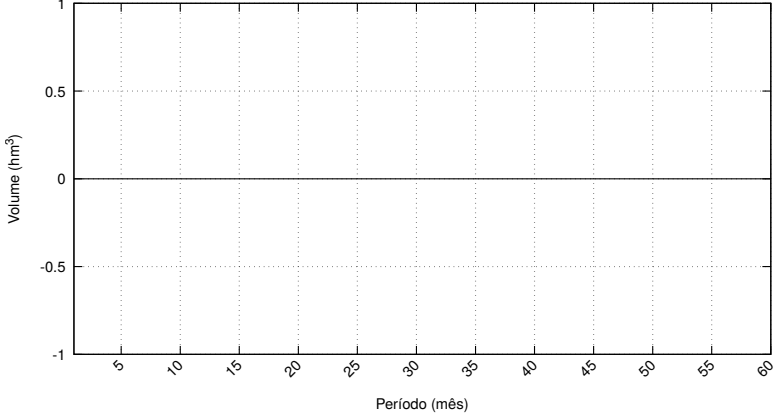
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



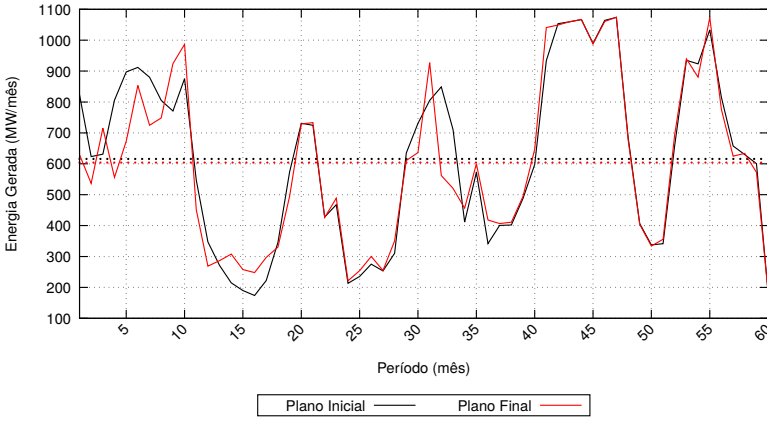
(a) SpPd

SpPd - Volume - Diferença



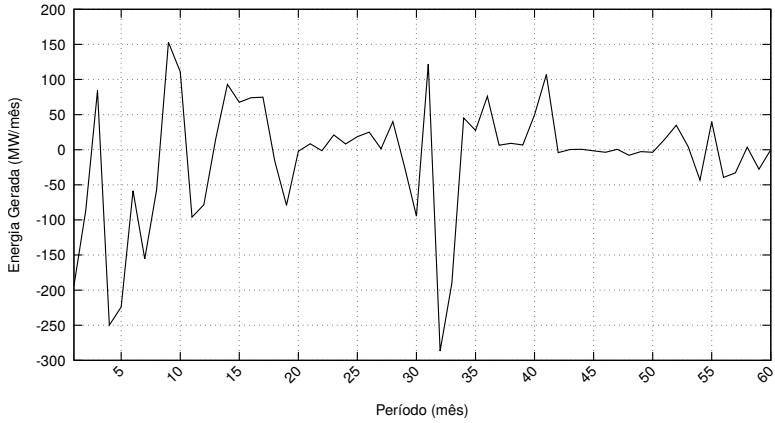
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



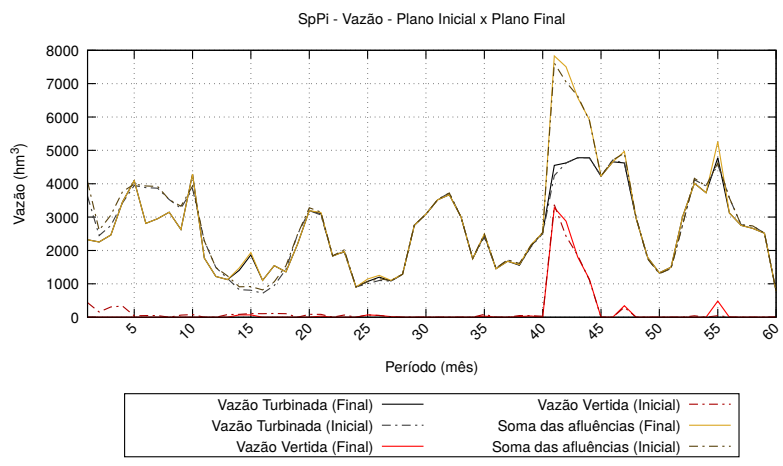
(a) SpPd

SpPd - Energia Gerada - Diferença

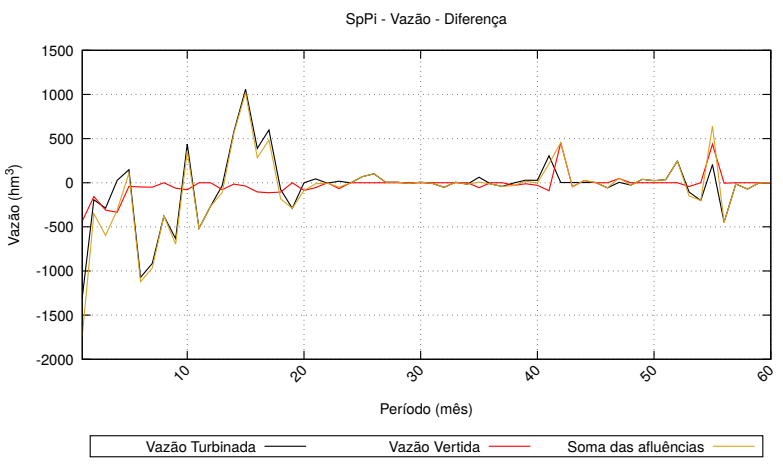


(b) SpPd

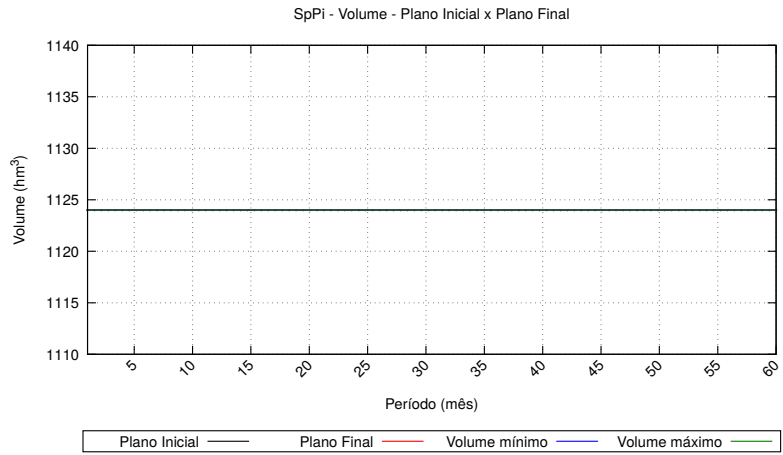
20.6 Resultados - SpPi



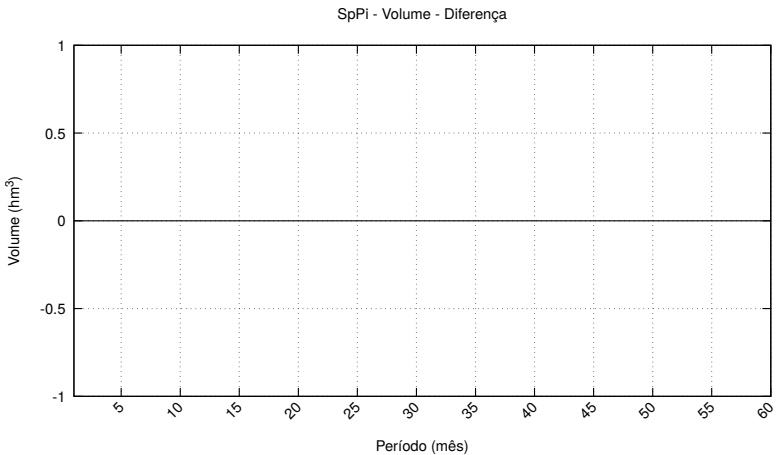
(a) SpPi



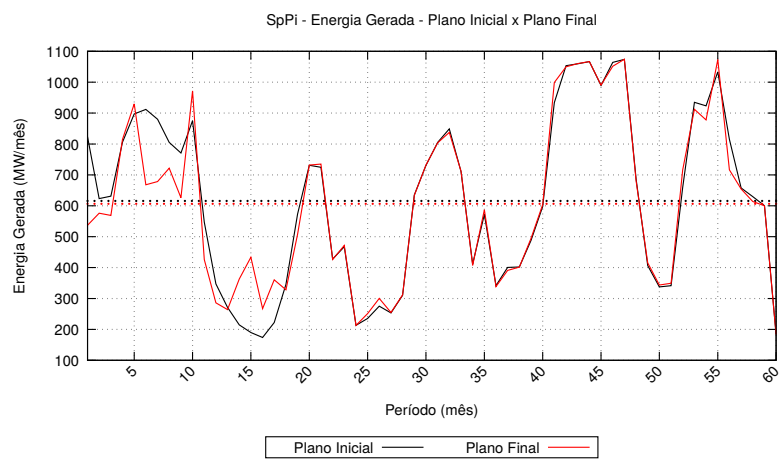
(b) SpPi



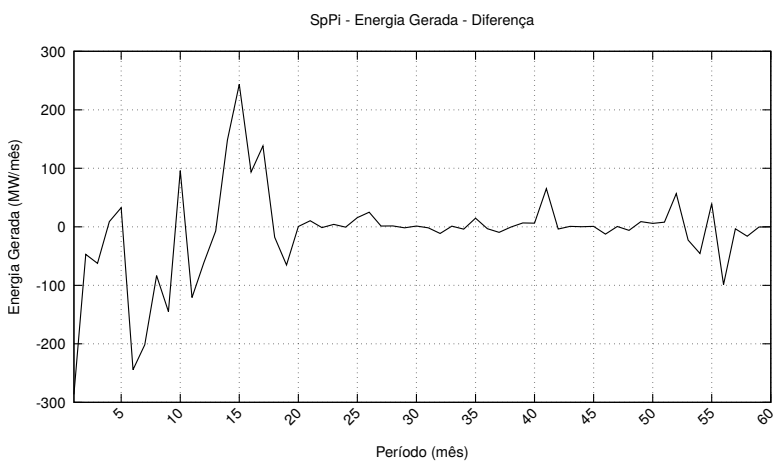
(a) SpPi



(b) SpPi



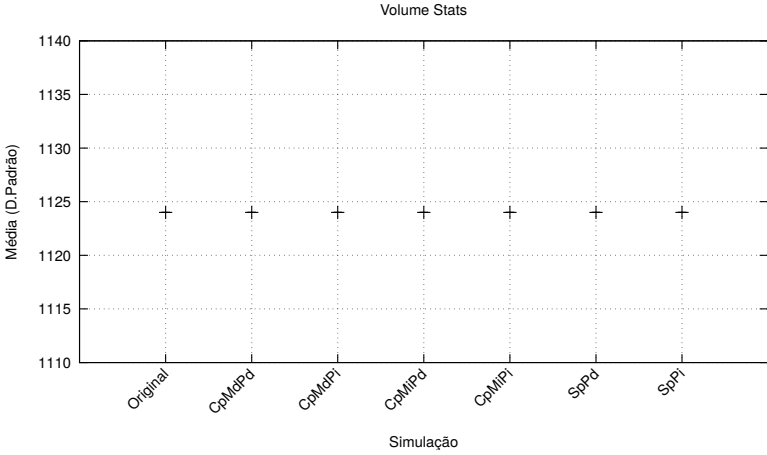
(a) SpPi



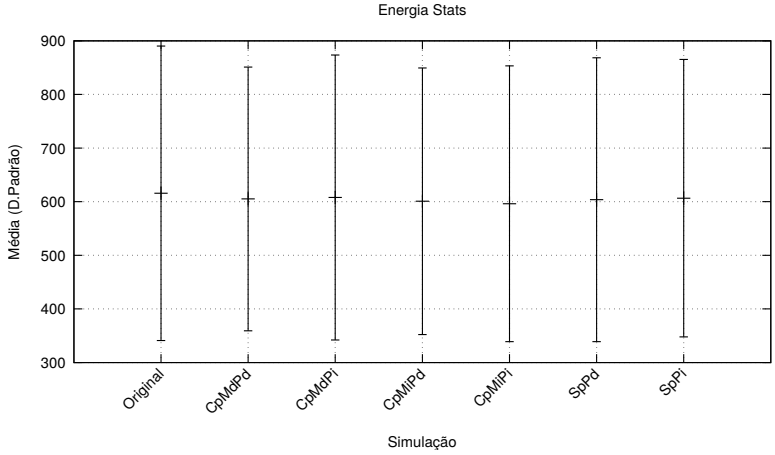
(b) SpPi

Tabela 25: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	1124.00000	0.00000	615.71486	274.59044
CpMdPd	1124.00000	0.00000	605.20277	245.94499
CpMdPi	1124.00000	0.00000	607.90236	265.70540
CpMiPd	1124.00000	0.00000	600.88939	248.62974
CpMiPi	1124.00000	0.00000	596.21993	257.22938
SpPd	1124.00000	0.00000	603.77435	264.70107
SpPi	1124.00000	0.00000	606.58453	258.78262



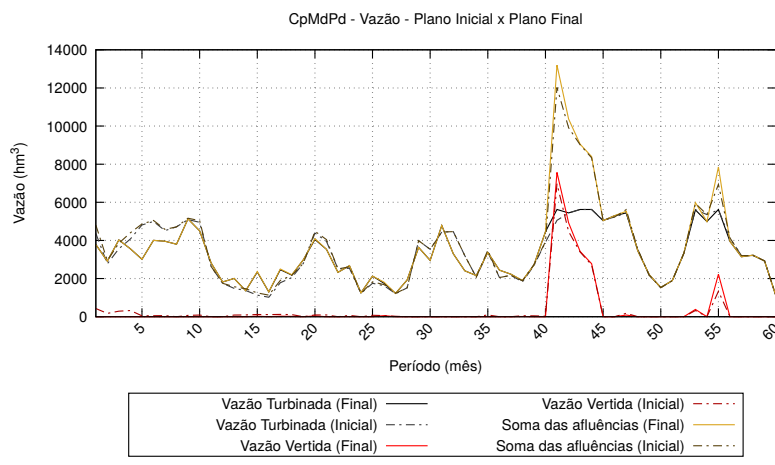
(a) Volume



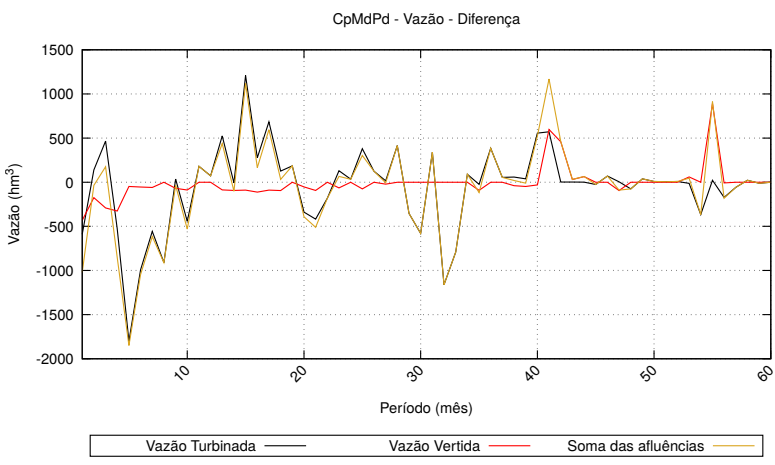
(b) Energia

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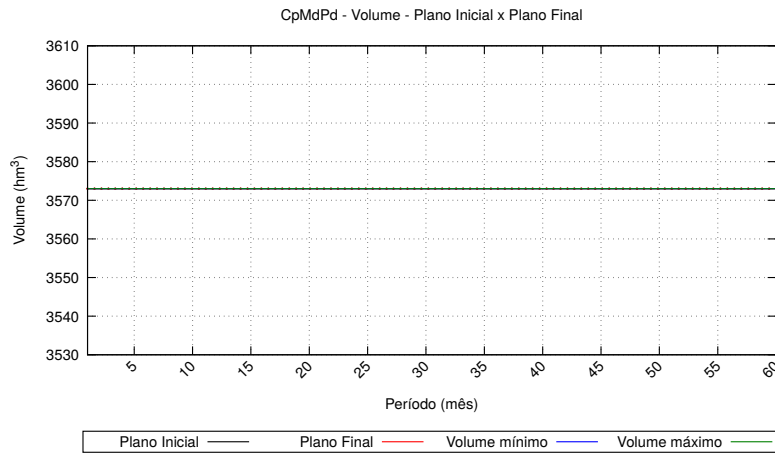
21.1 Resultados - CpMdPd



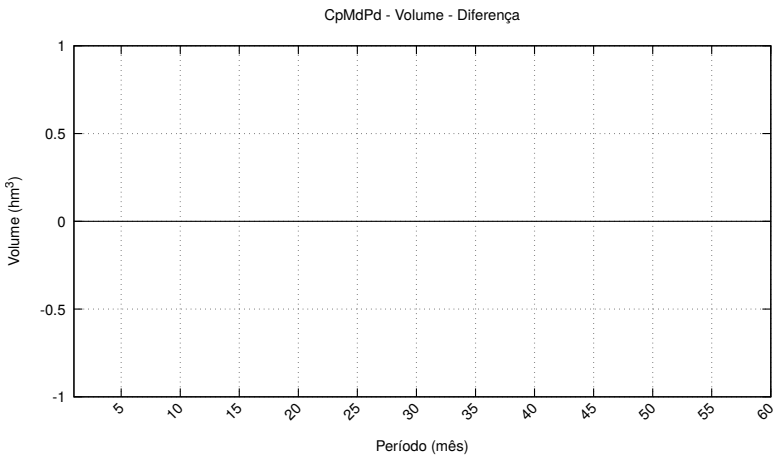
(a) CpMdPd



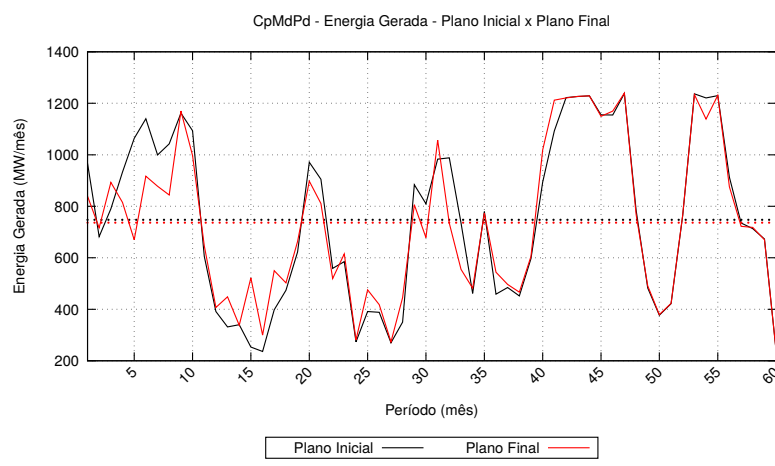
(b) CpMdPd



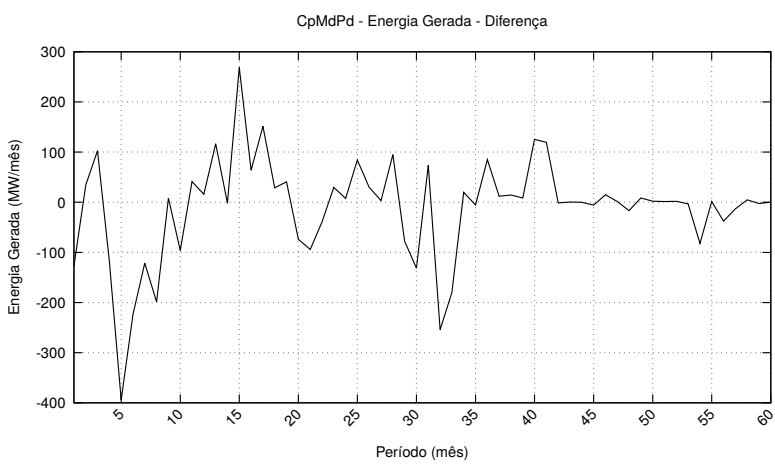
(a) CpMdPd



(b) CpMdPd



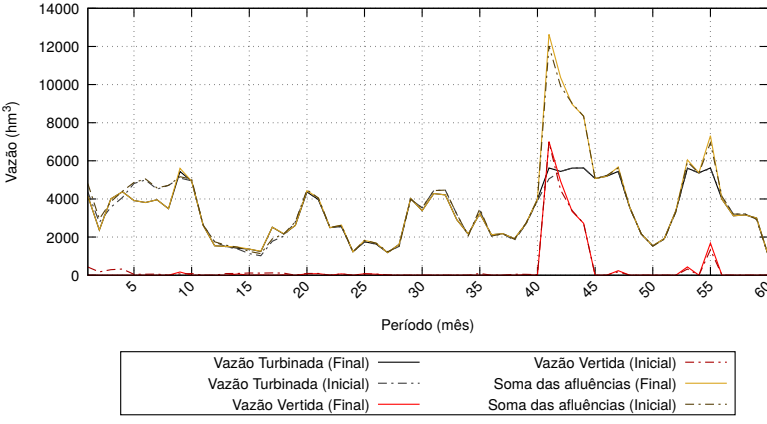
(a) CpMdPd



(b) CpMdPd

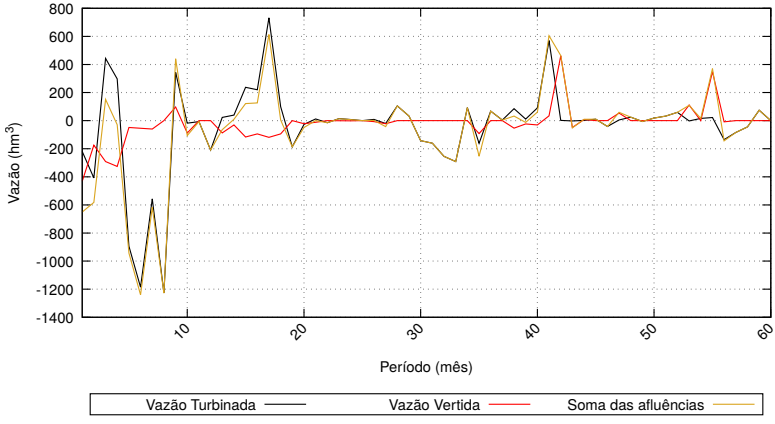
21.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



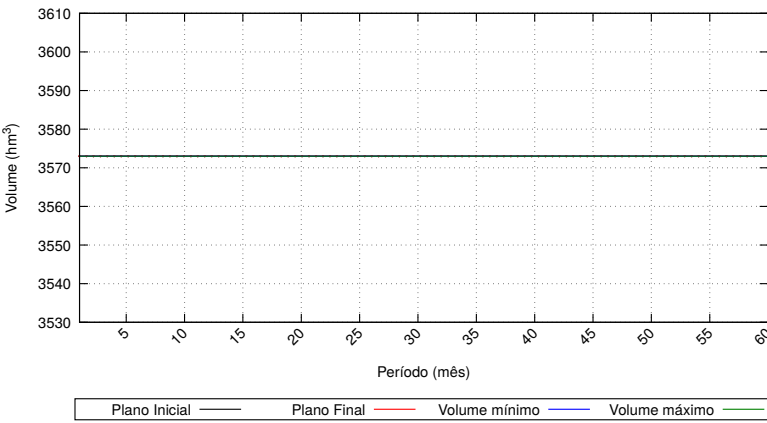
(a) CpMdPi

CpMdPi - Vazão - Diferença



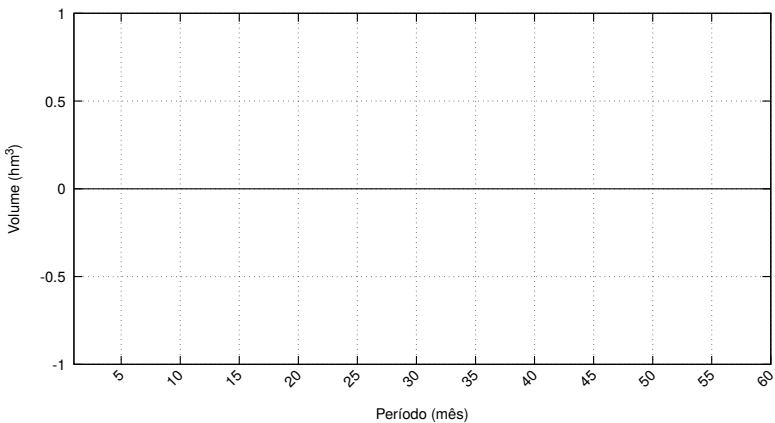
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



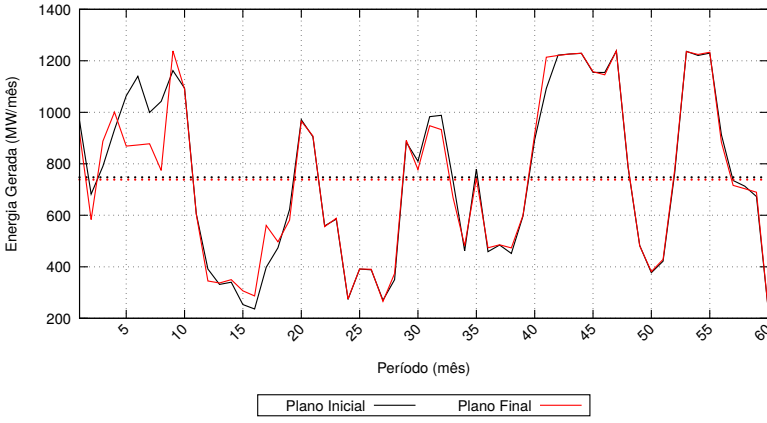
(a) CpMdPi

CpMdPi - Volume - Diferença



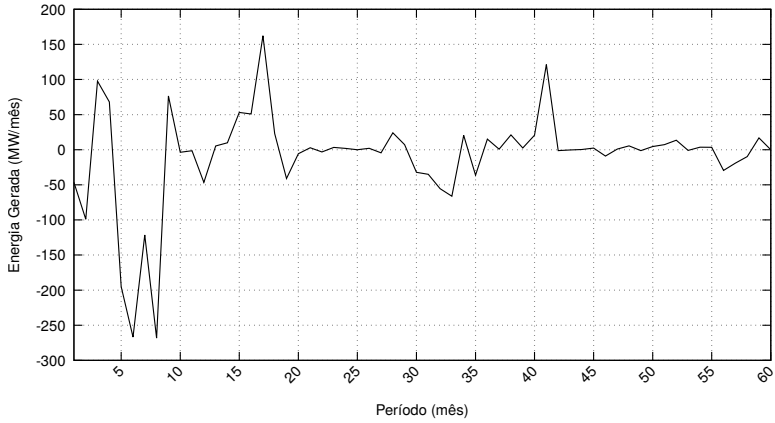
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

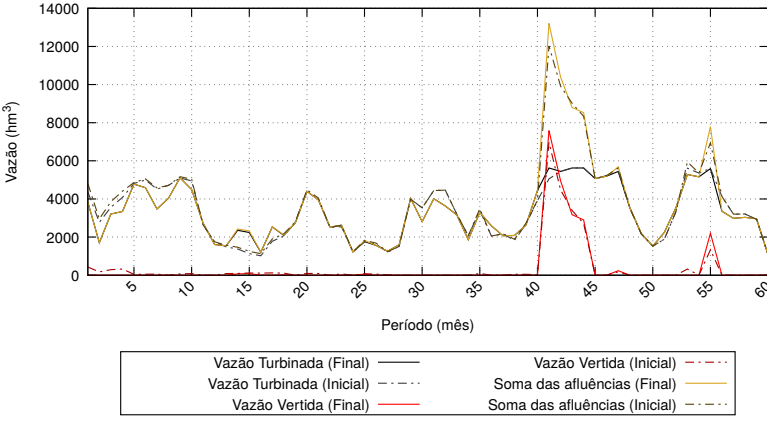
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

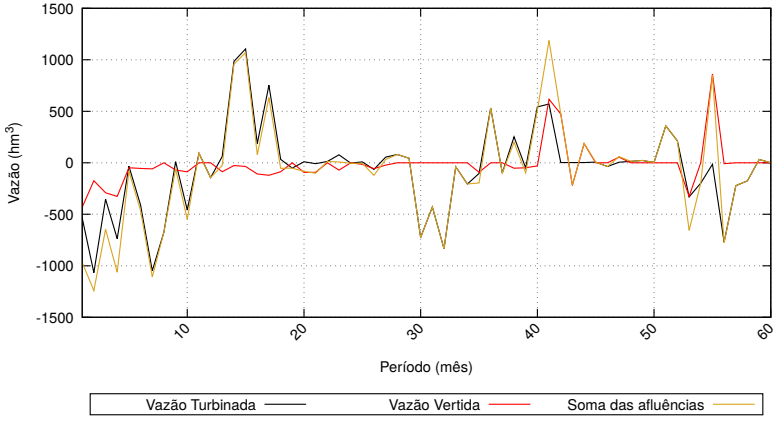
21.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



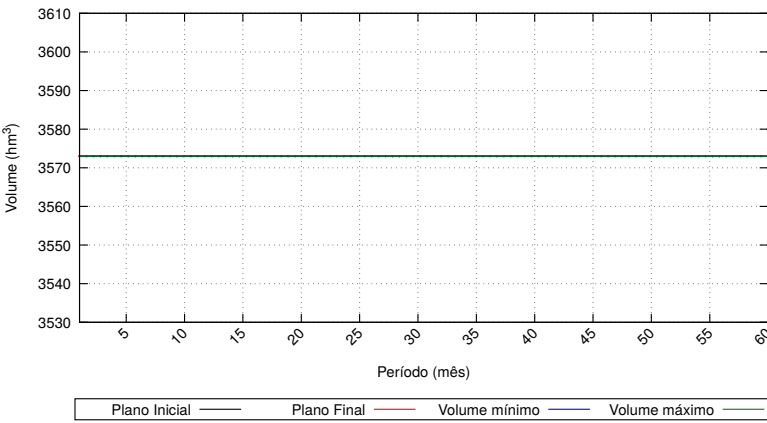
(a) CpMiPd

CpMiPd - Vazão - Diferença



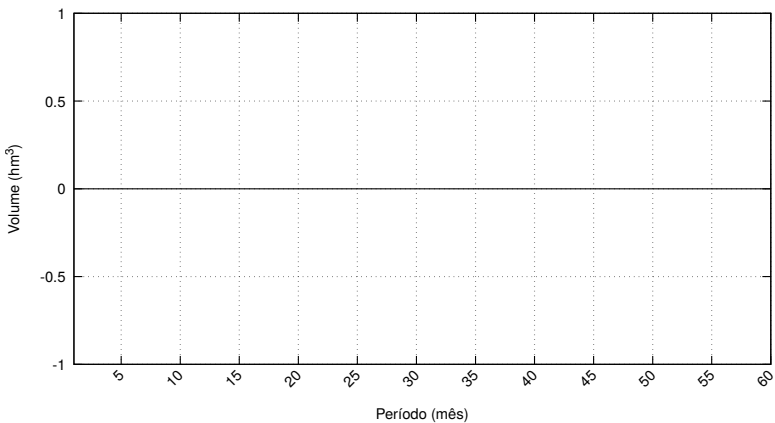
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



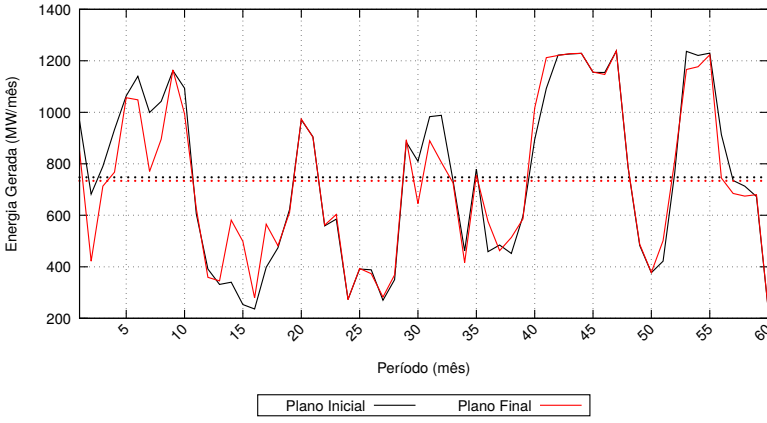
(a) CpMiPd

CpMiPd - Volume - Diferença



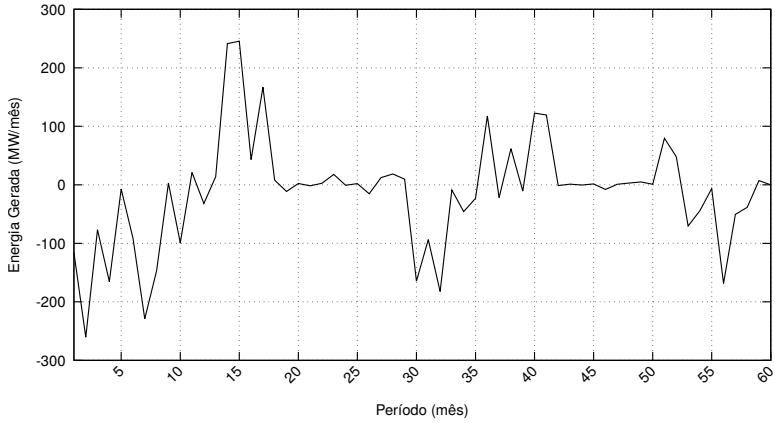
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

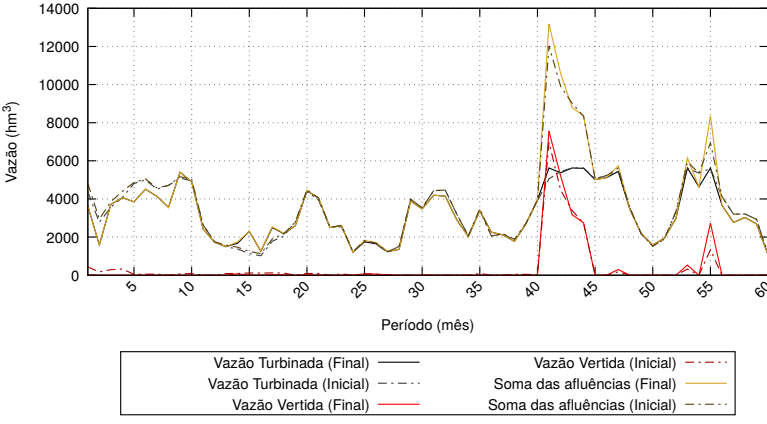
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

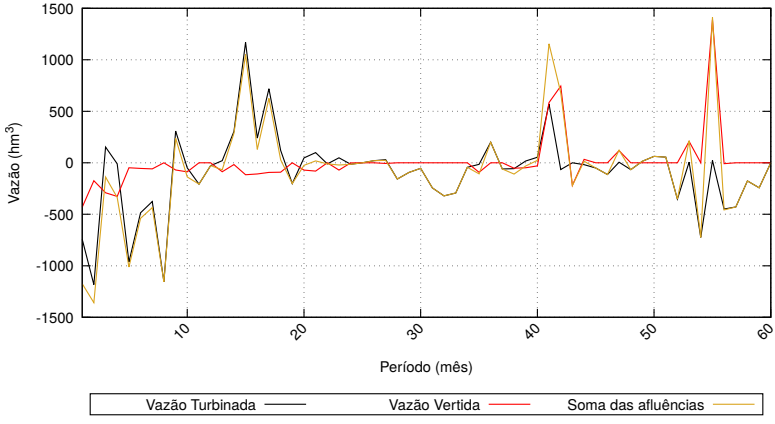
21.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



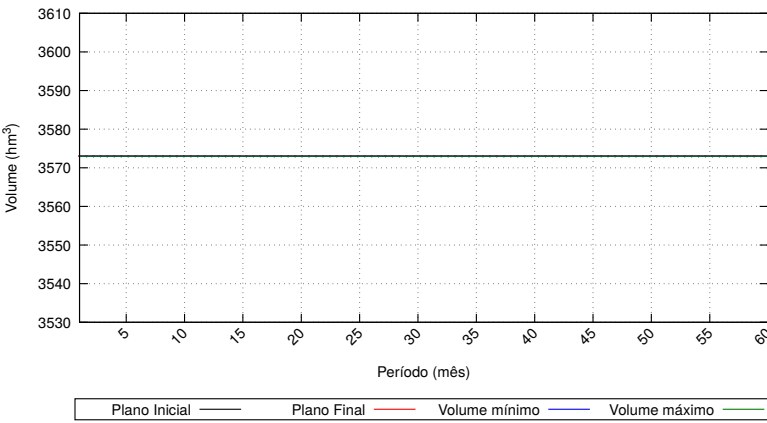
(a) CpMiPi

CpMiPi - Vazão - Diferença



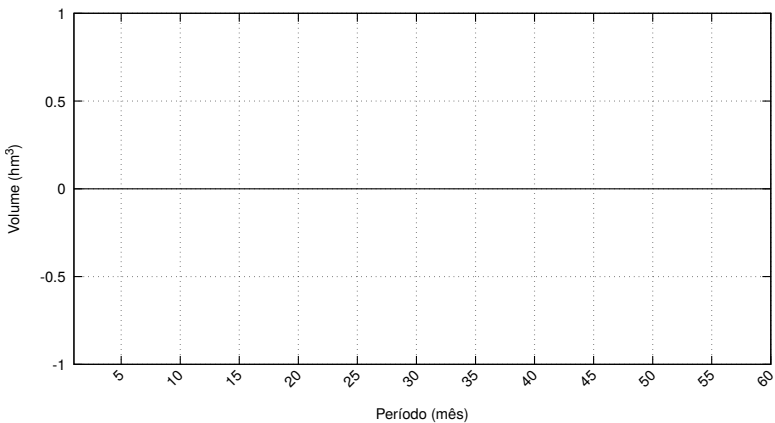
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



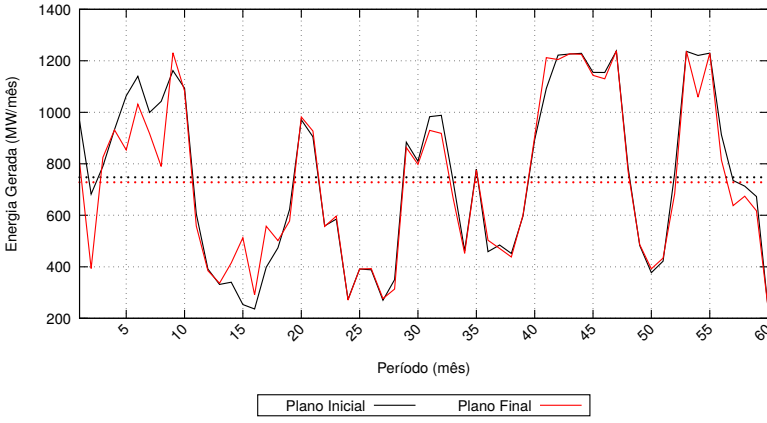
(a) CpMiPi

CpMiPi - Volume - Diferença



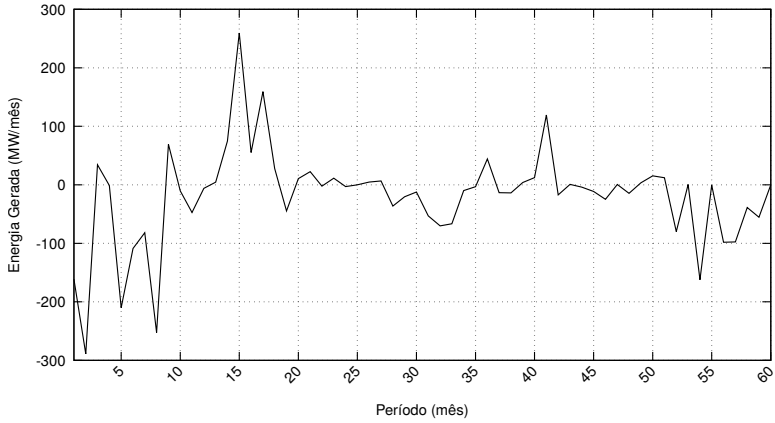
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



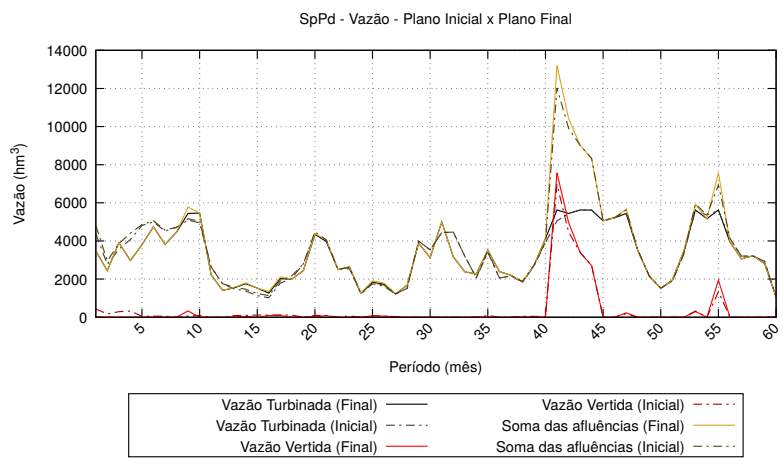
(a) CpMiPi

CpMiPi - Energia Gerada - Diferença

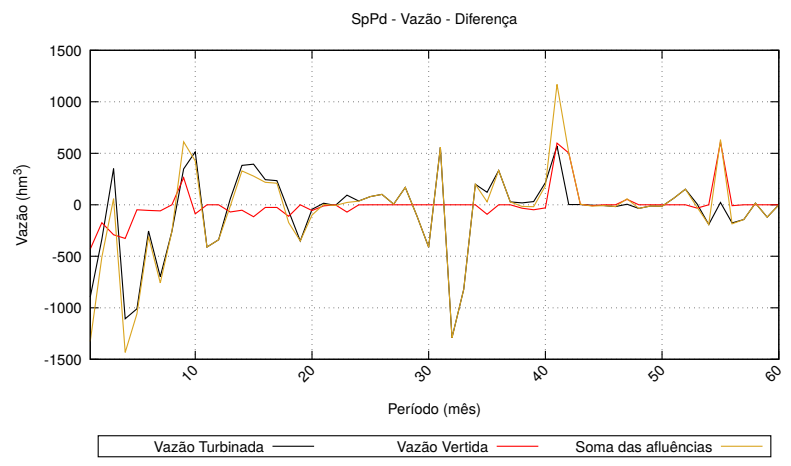


(b) CpMiPi

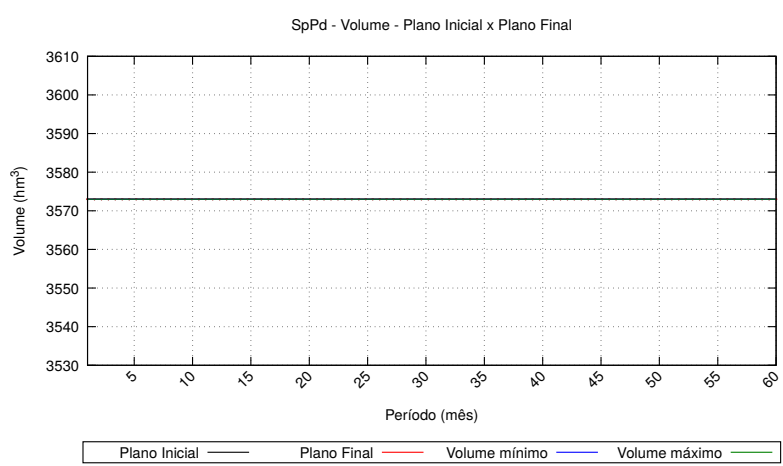
21.5 Resultados - SpPd



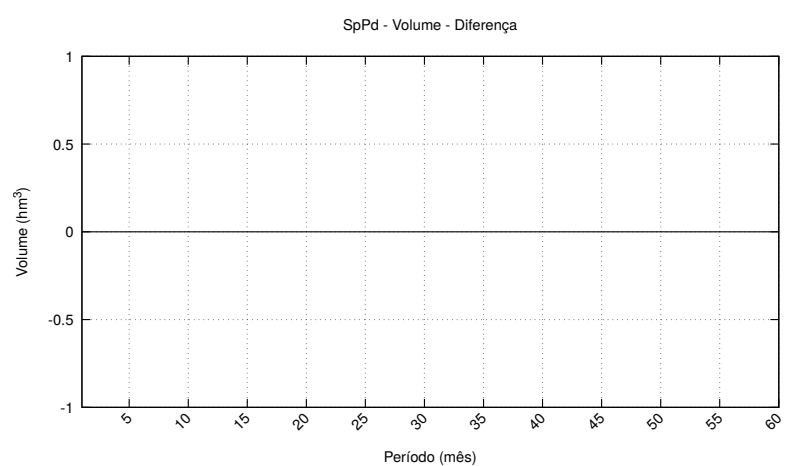
(a) SpPd



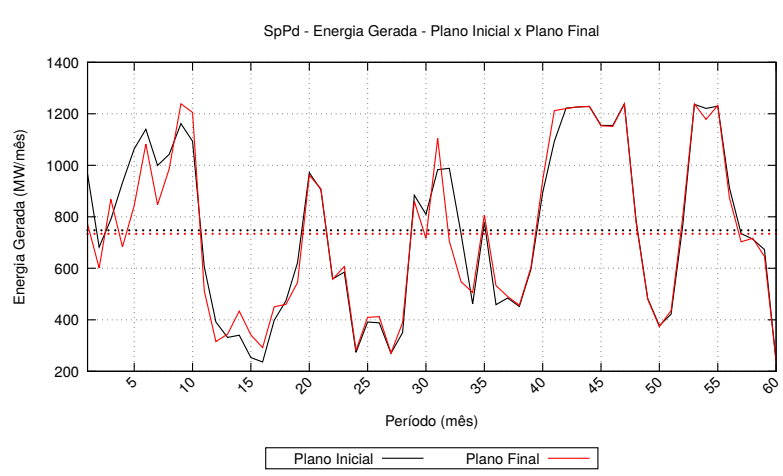
(b) SpPd



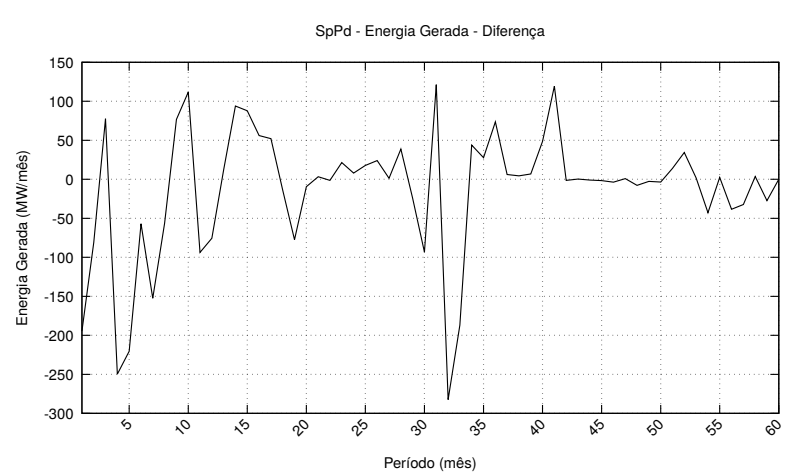
(a) SpPd



(b) SpPd

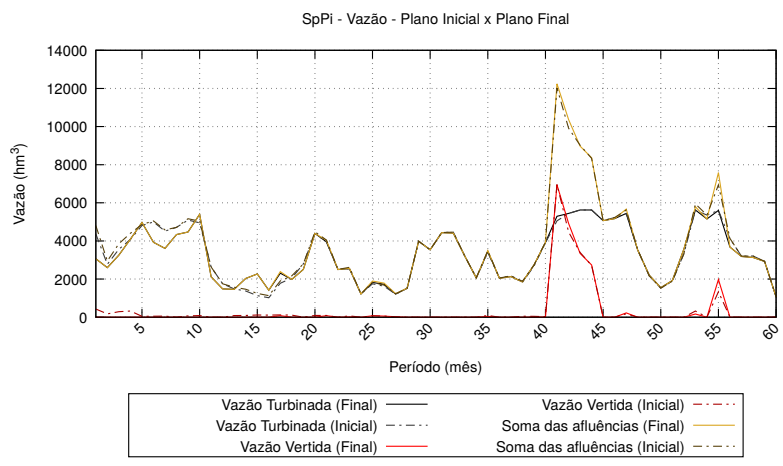


(a) SpPd

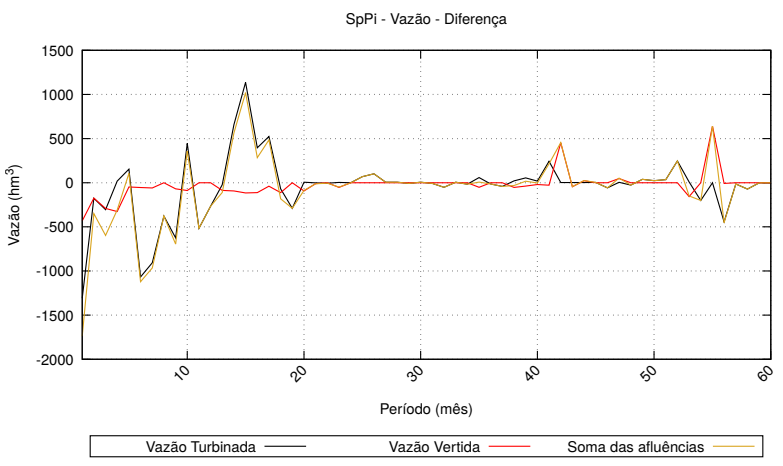


(b) SpPd

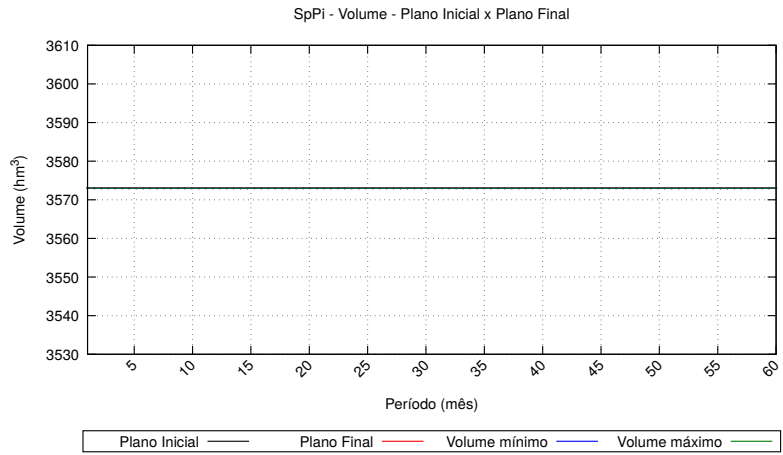
21.6 Resultados - SpPi



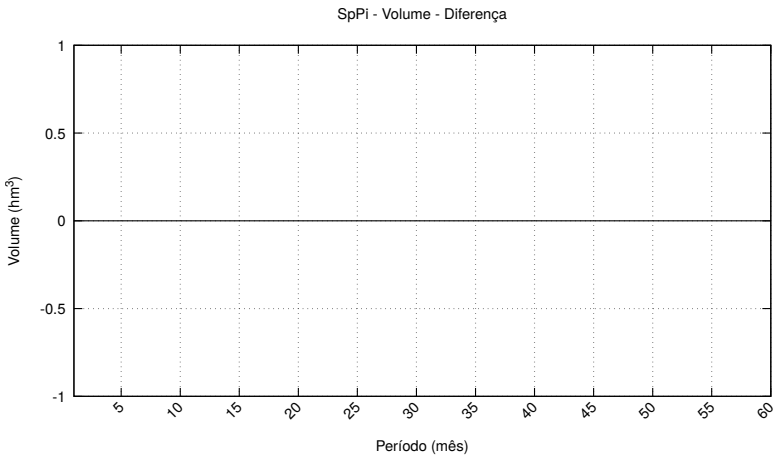
(a) SpPi



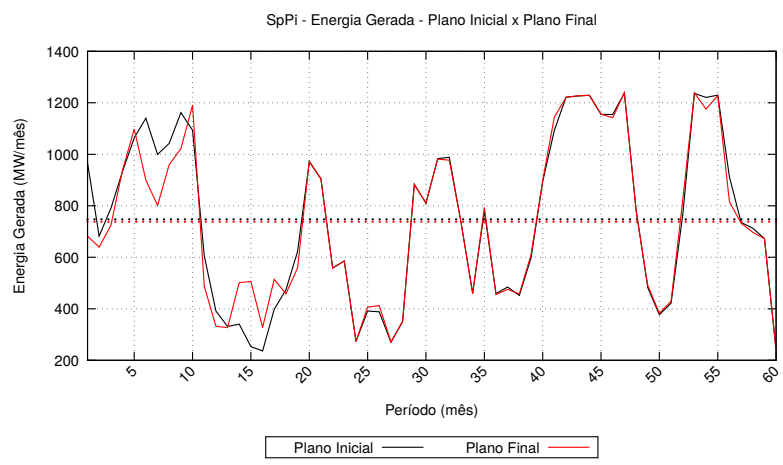
(b) SpPi



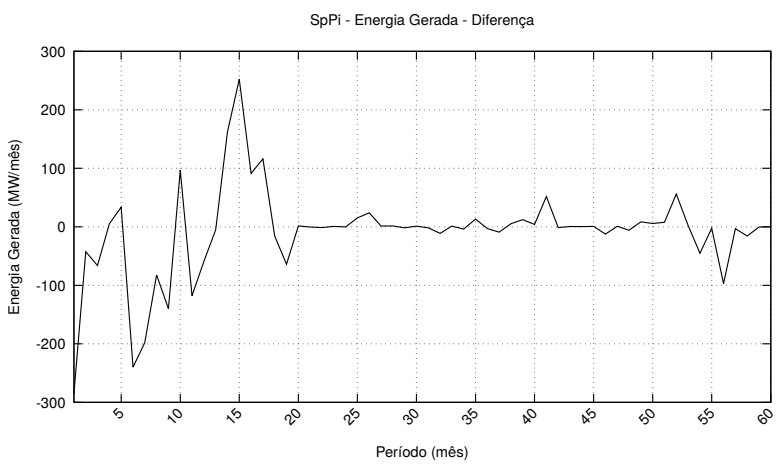
(a) SpPi



(b) SpPi



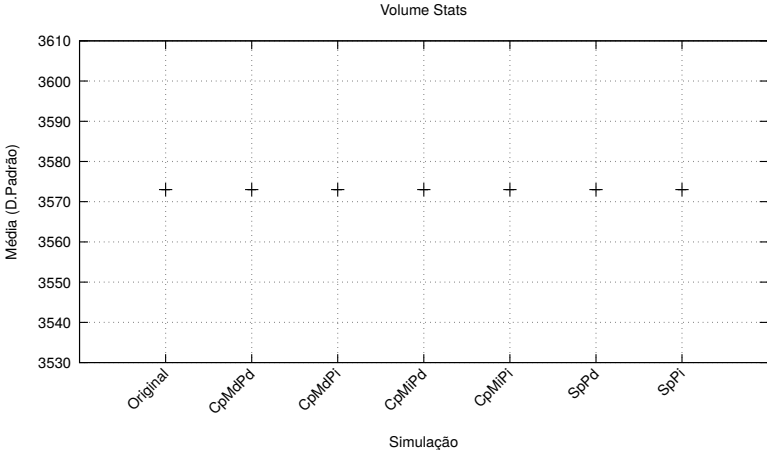
(a) SpPi



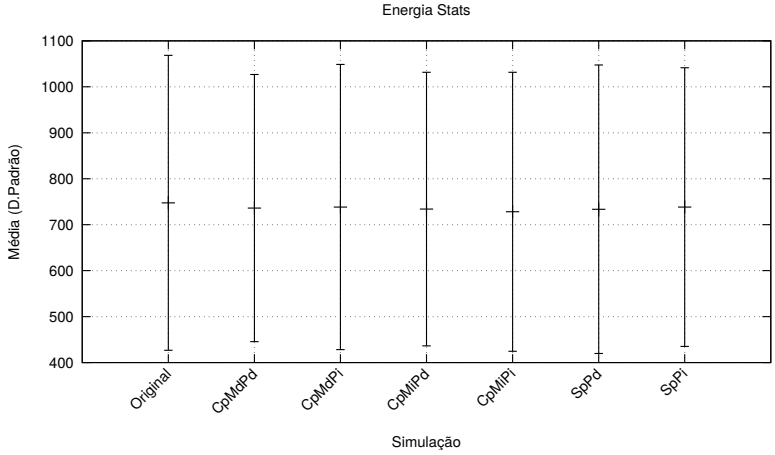
(b) SpPi

Tabela 26: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	3573.00000	0.00000	747.59196	320.84172
CpMdPd	3573.00000	0.00000	736.21921	290.65307
CpMdPi	3573.00000	0.00000	738.39341	310.22167
CpMiPd	3573.00000	0.00000	733.98171	297.72267
CpMiPi	3573.00000	0.00000	728.10135	303.57020
SpPd	3573.00000	0.00000	733.60098	313.92833
SpPi	3573.00000	0.00000	738.28046	303.18075

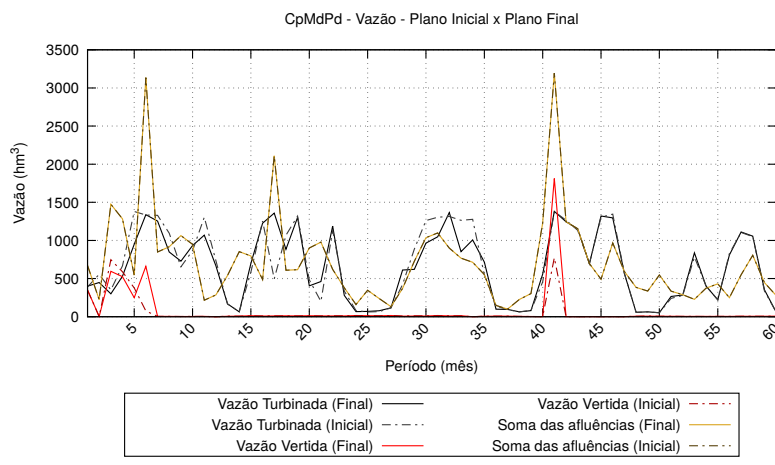


(a) Volume

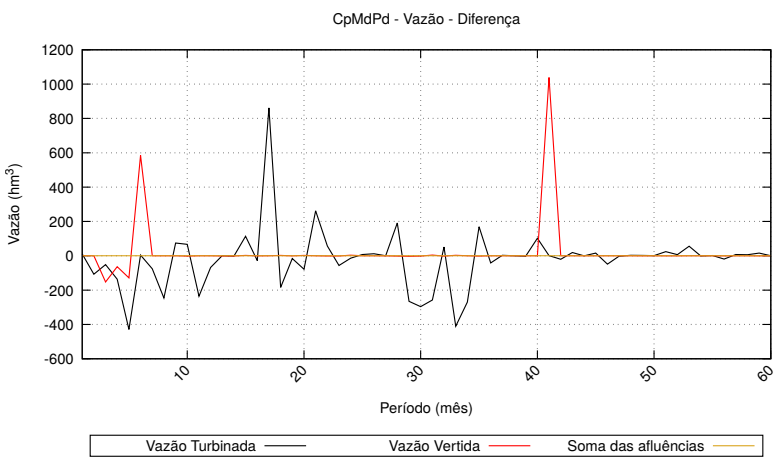


(b) Energia

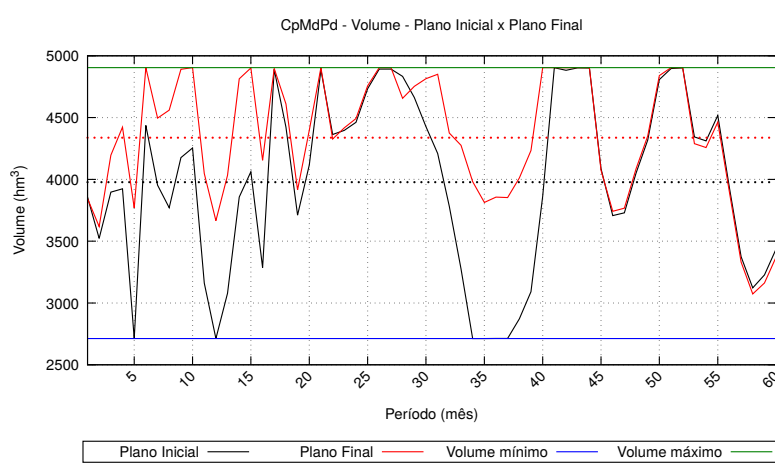
22.1 Resultados - CpMdBd



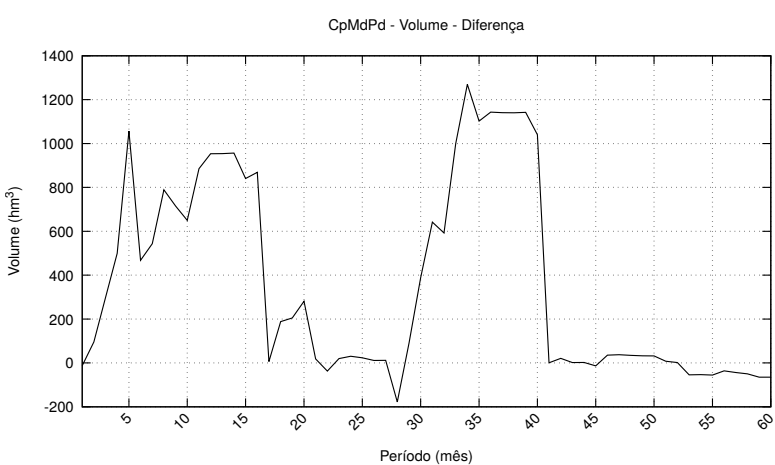
(a) CpMdBd



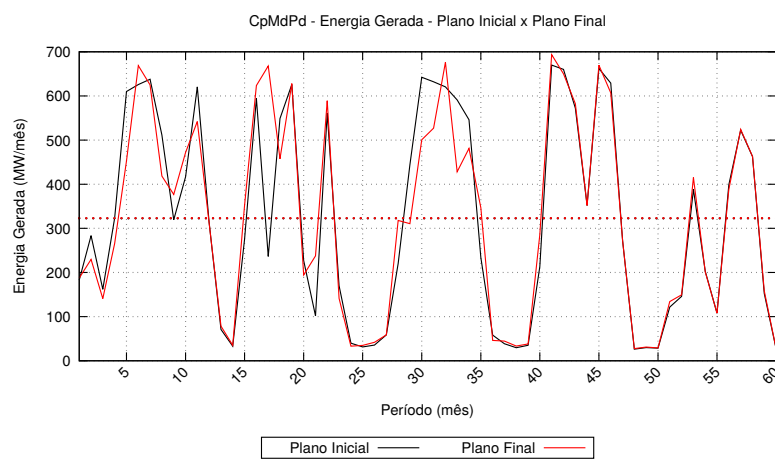
(b) CpMdBd



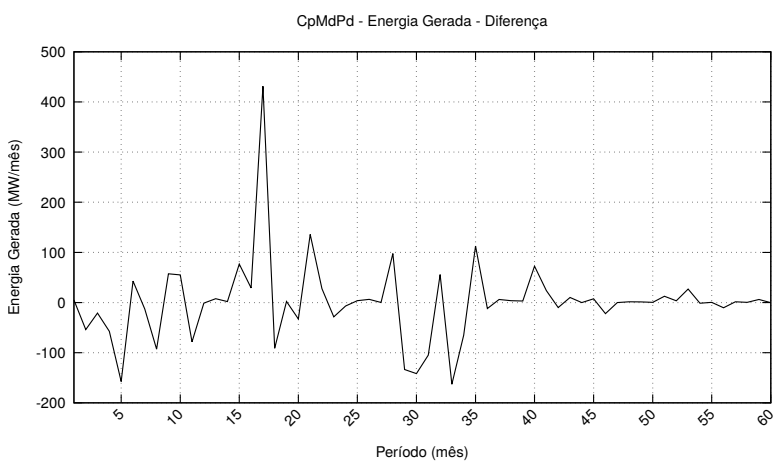
(a) CpMdBd



(b) CpMdBd



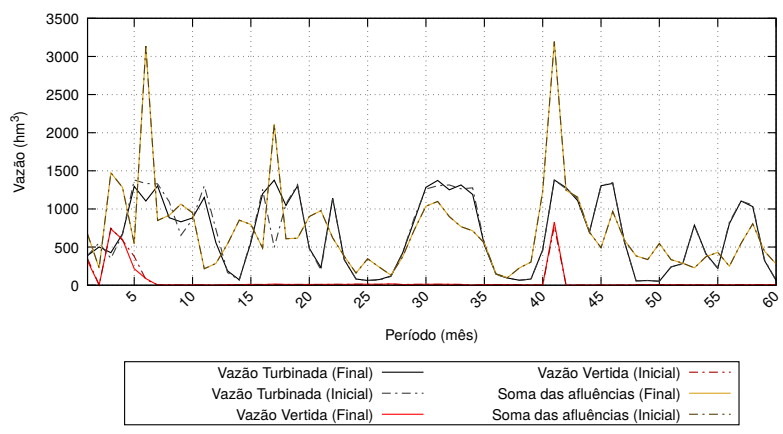
(a) CpMdBd



(b) CpMdBd

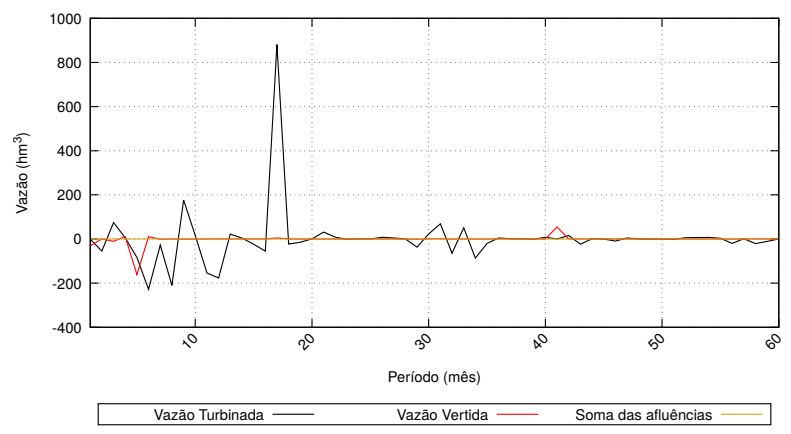
22.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



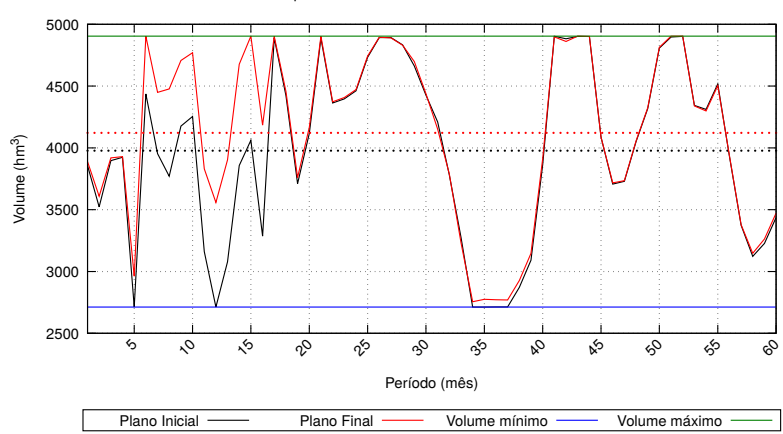
(a) CpMdPi

CpMdPi - Vazão - Diferença



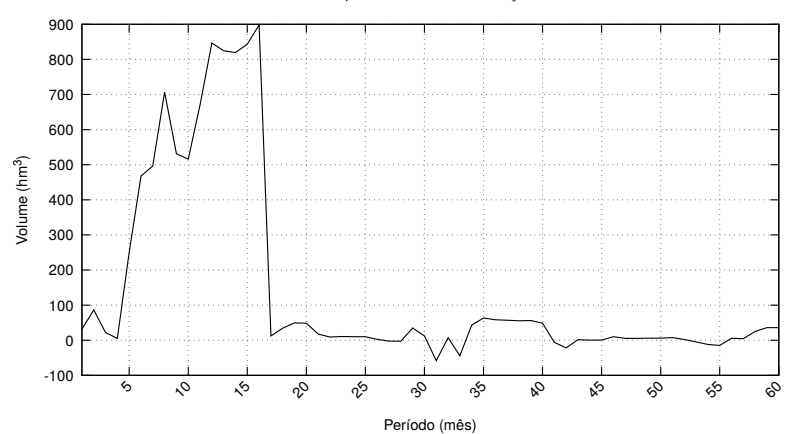
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



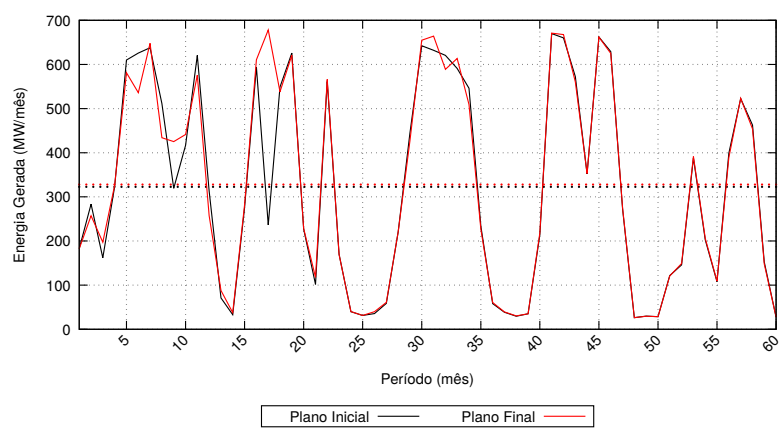
(a) CpMdPi

CpMdPi - Volume - Diferença



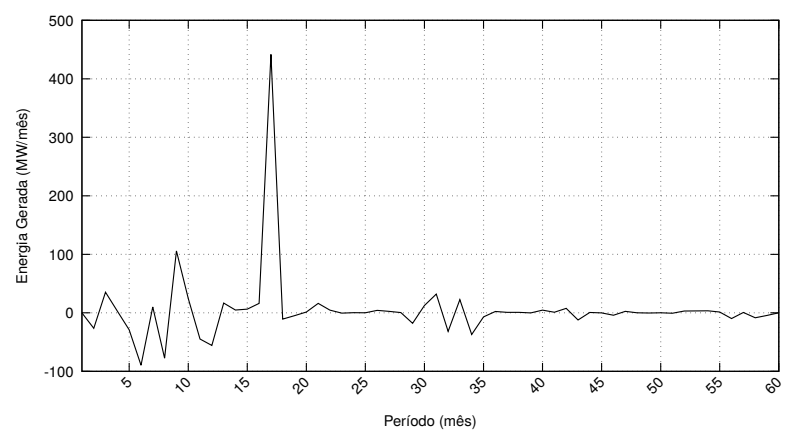
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

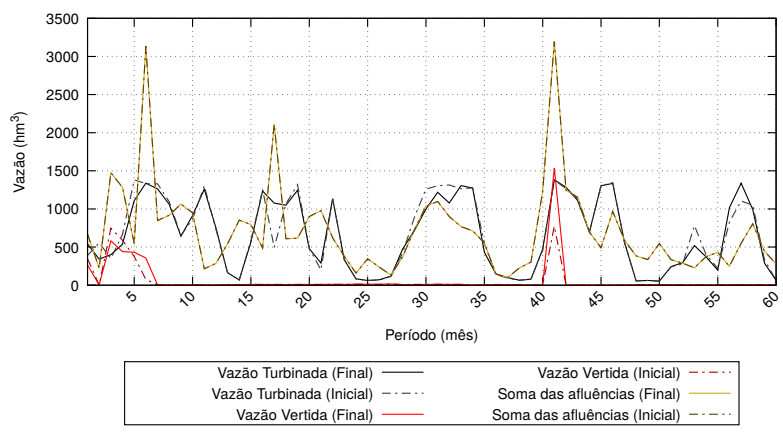
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

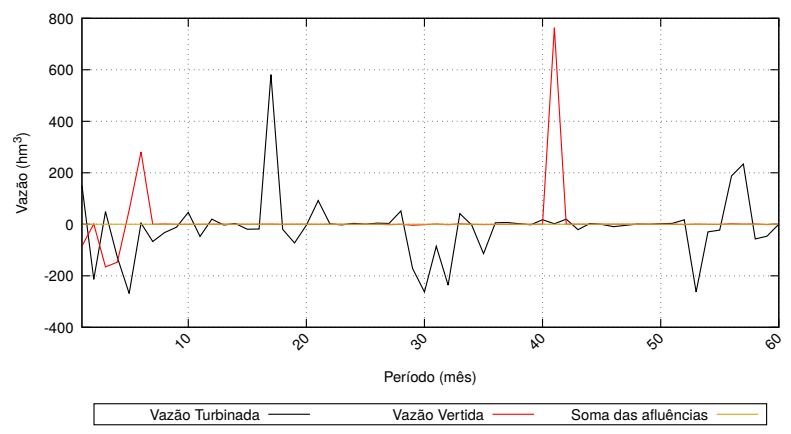
22.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



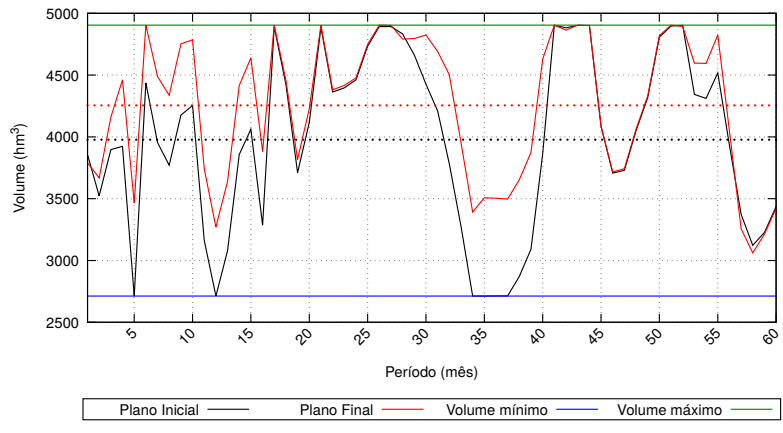
(a) CpMiPd

CpMiPd - Vazão - Diferença



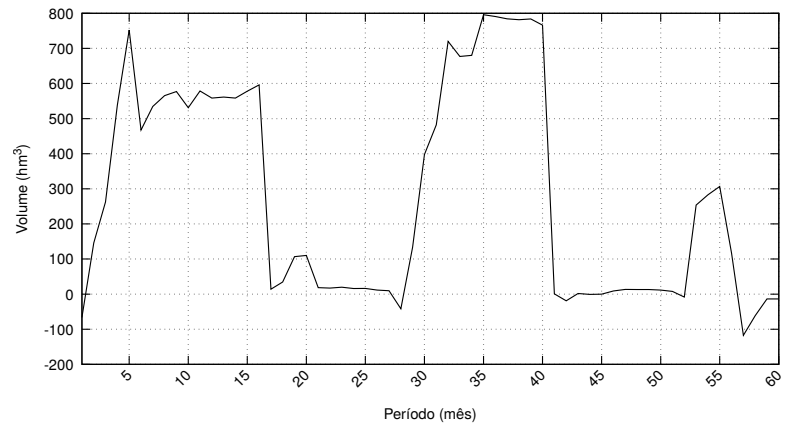
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



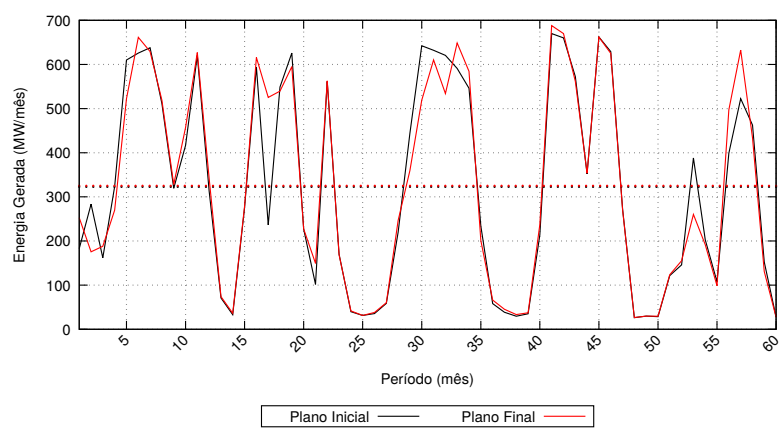
(a) CpMiPd

CpMiPd - Volume - Diferença



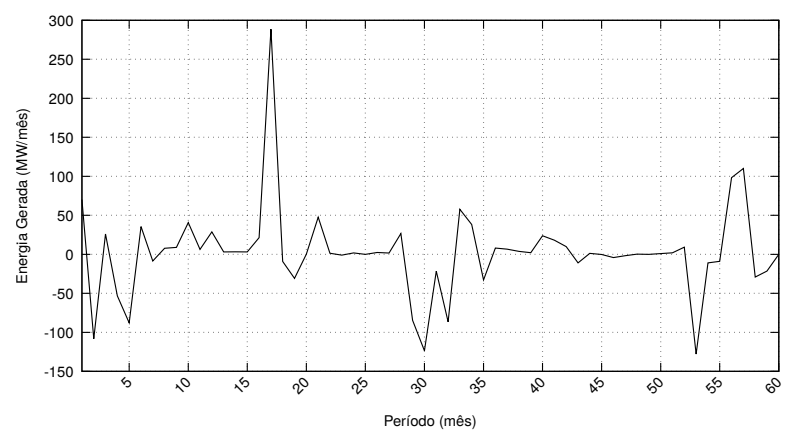
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

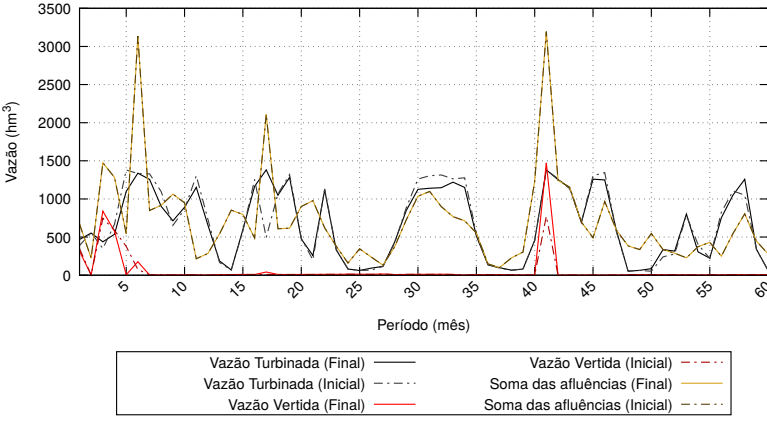
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

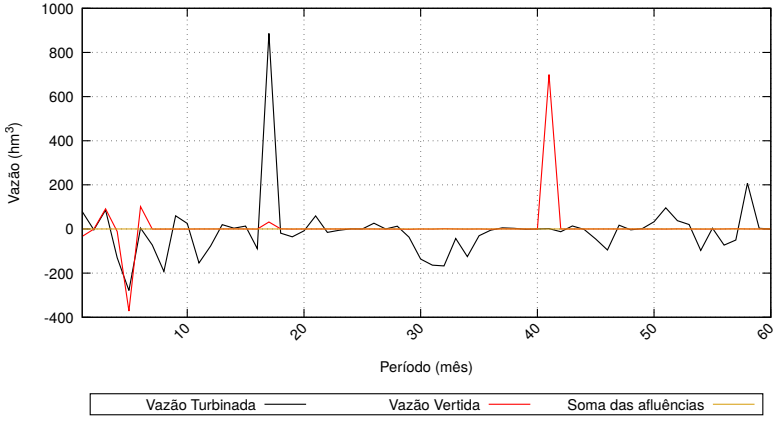
22.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



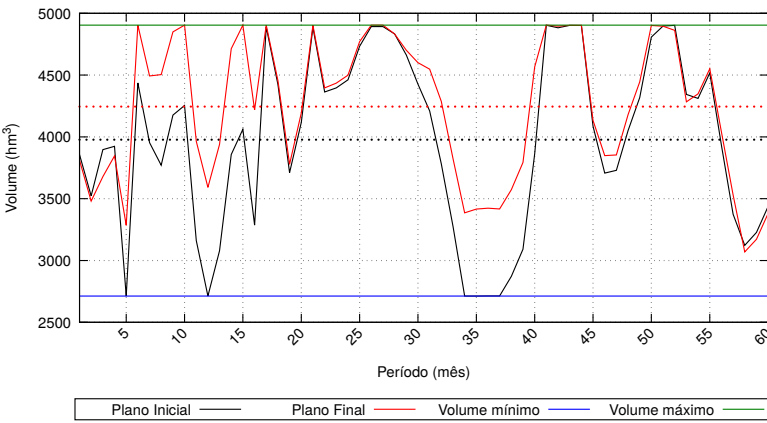
(a) CpMiPi

CpMiPi - Vazão - Diferença



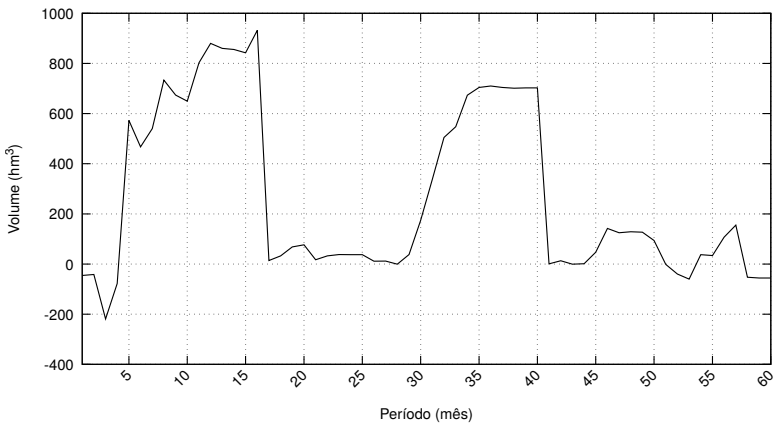
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



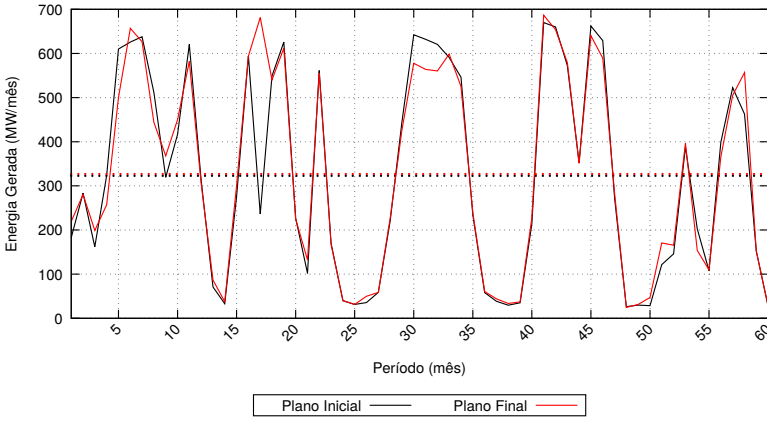
(a) CpMiPi

CpMiPi - Volume - Diferença



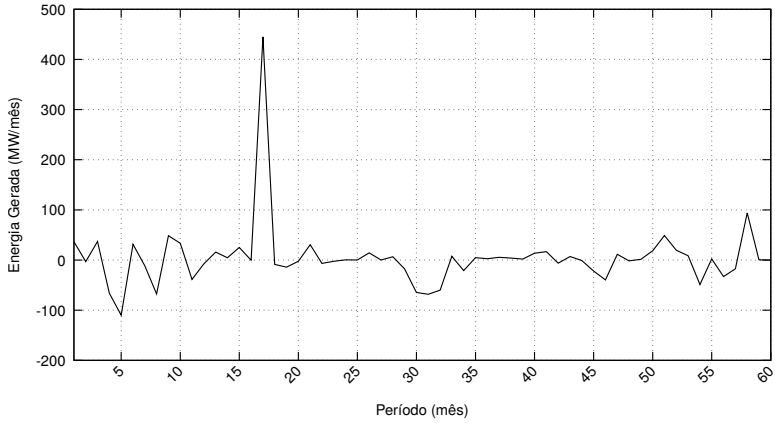
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

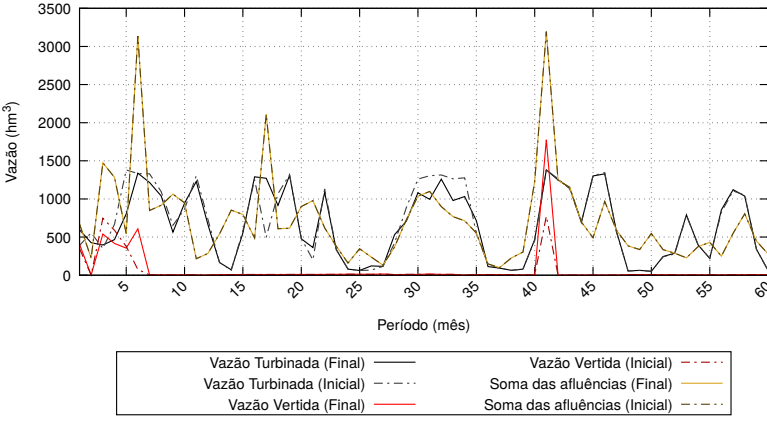
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

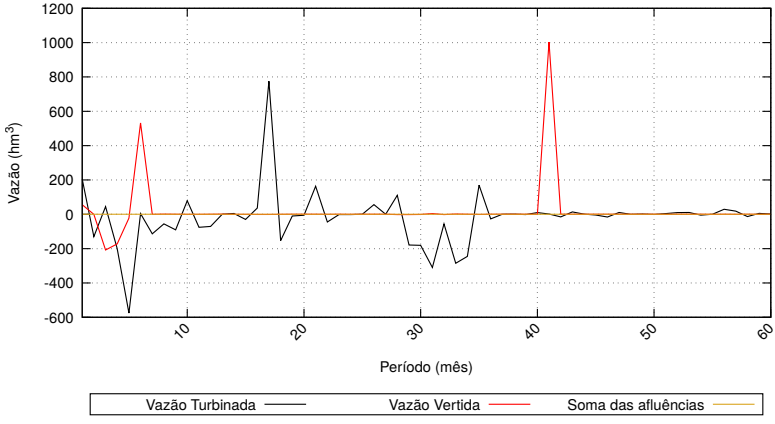
22.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



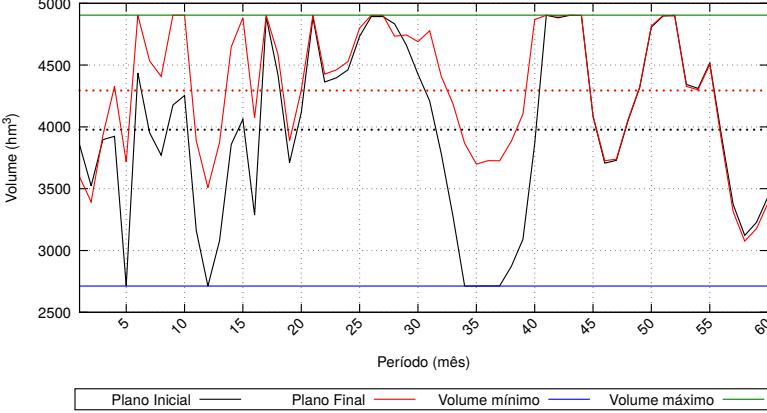
(a) SpPd

SpPd - Vazão - Diferença



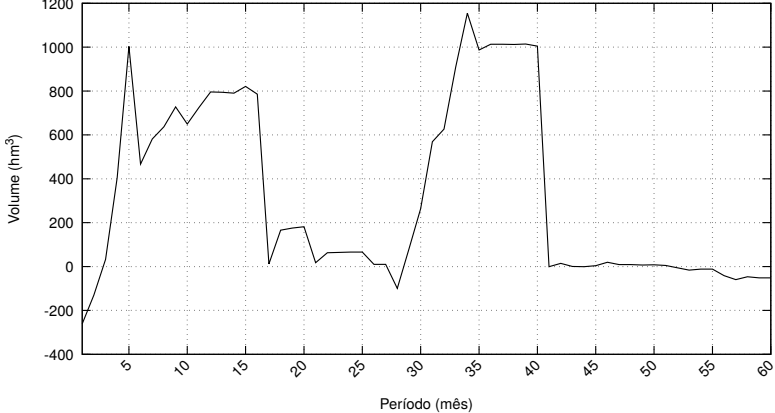
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



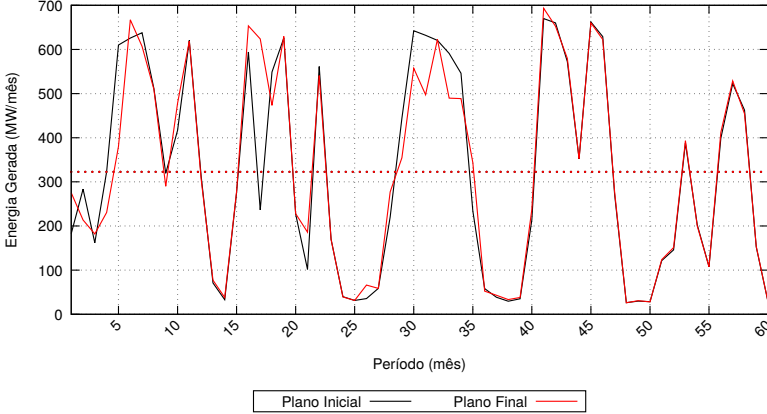
(a) SpPd

SpPd - Volume - Diferença



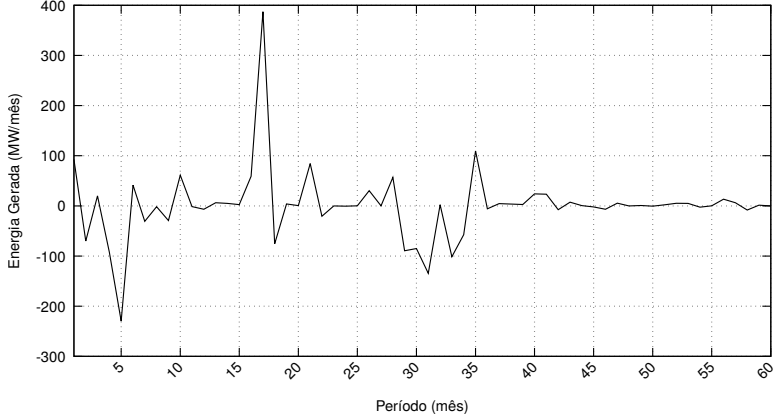
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



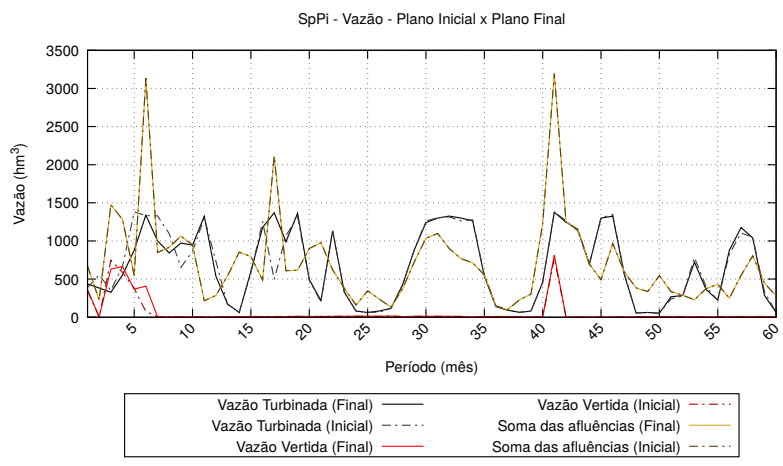
(a) SpPd

SpPd - Energia Gerada - Diferença

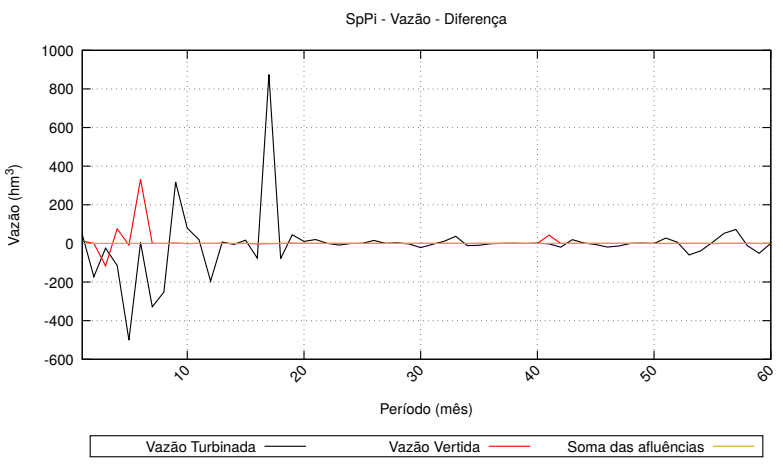


(b) SpPd

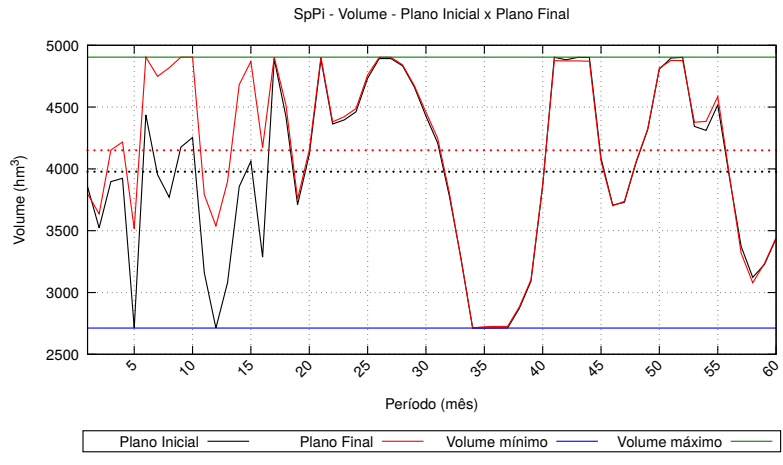
22.6 Resultados - SpPi



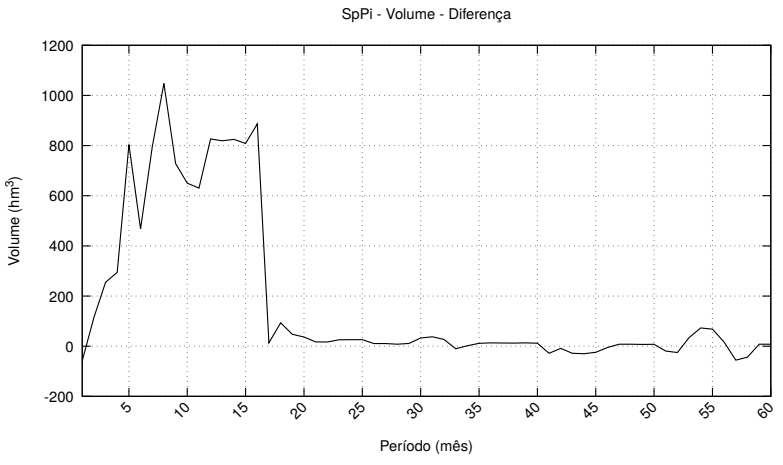
(a) SpPi



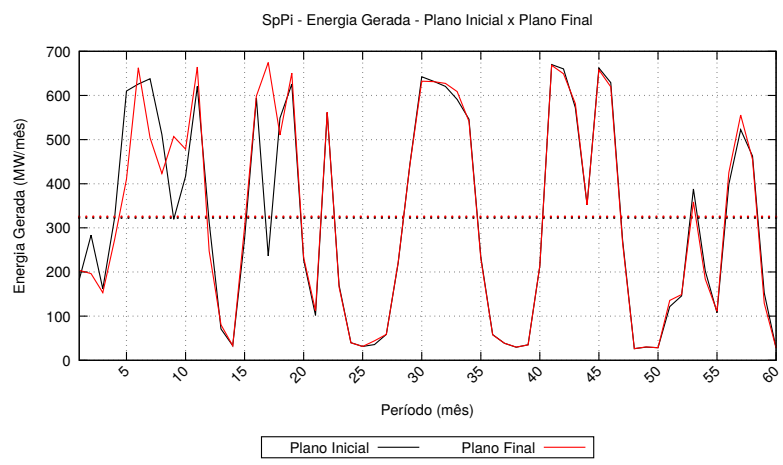
(b) SpPi



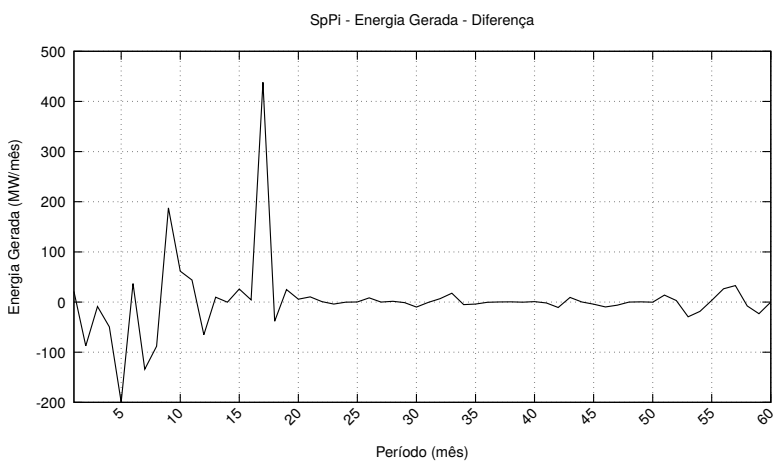
(a) SpPi



(b) SpPi



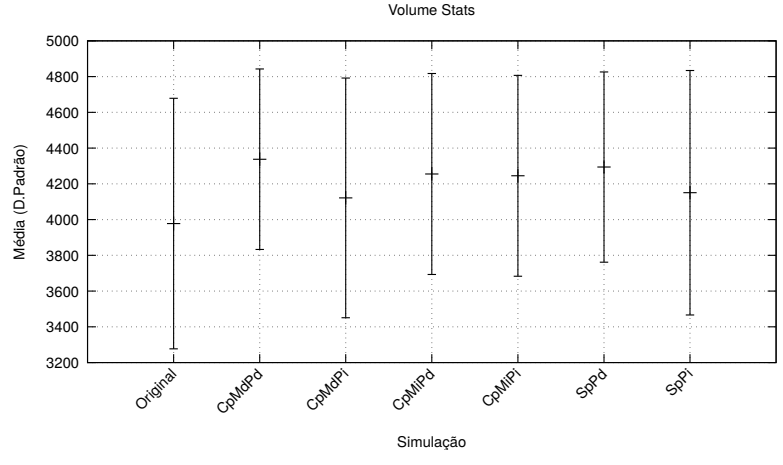
(a) SpPi



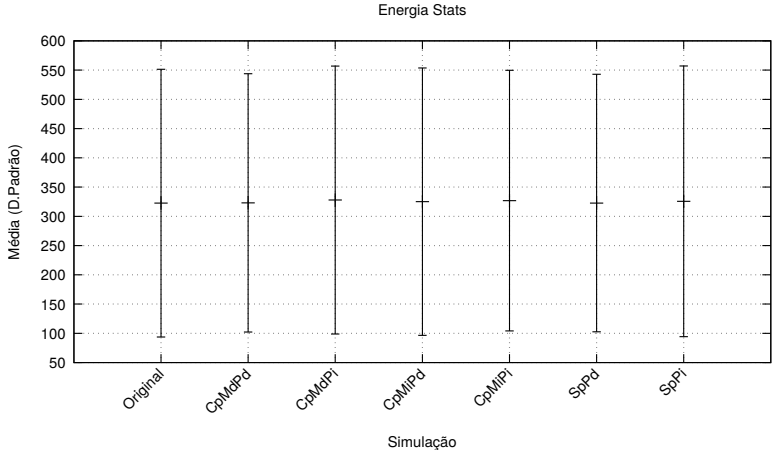
(b) SpPi

Tabela 27: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	3977.46215	700.94988	322.58024	228.87671
CpMdPd	4337.57474	504.91556	323.08735	220.77531
CpMdPi	4121.47259	670.52809	327.91192	229.02987
CpMiPd	4255.15083	562.23042	325.10909	228.52217
CpMiPi	4244.95710	562.10800	326.87750	222.83346
SpPd	4294.04124	532.14922	322.72462	220.16834
SpPi	4150.24336	683.79632	325.68614	231.39318

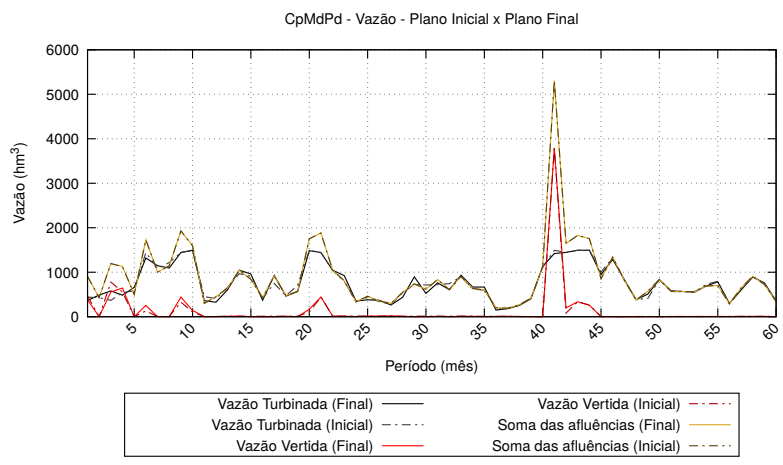


(a) Volume

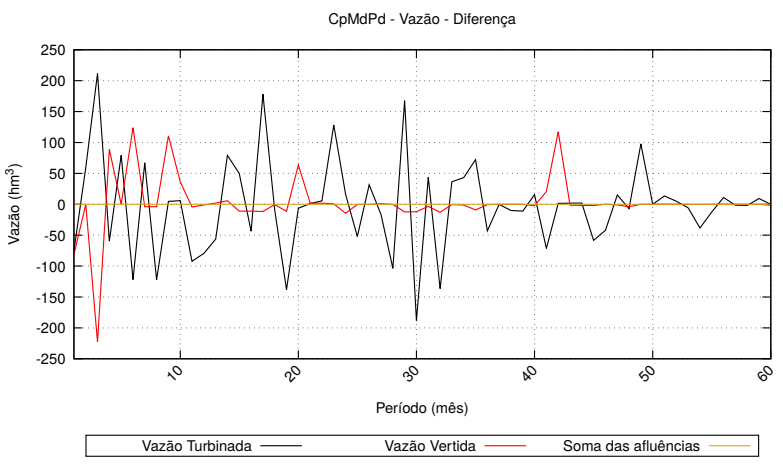


(b) Energia

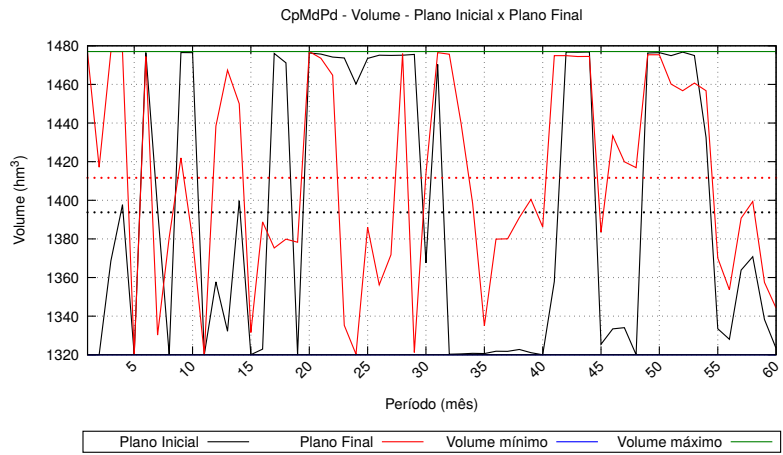
23.1 Resultados - CpMdPd



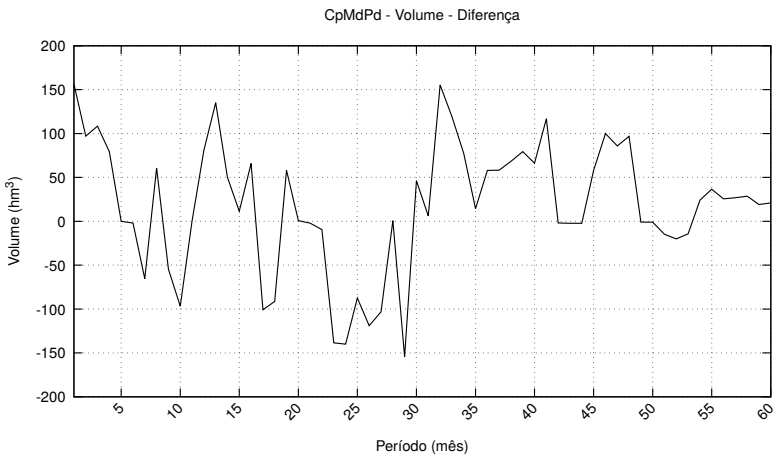
(a) CpMdPd



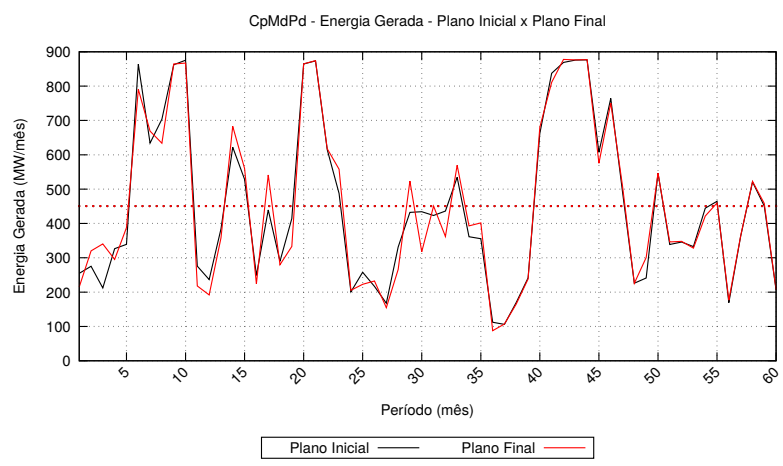
(b) CpMdPd



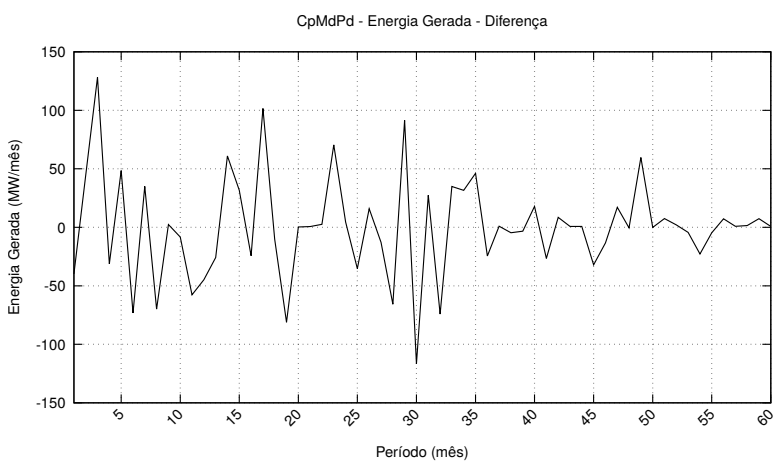
(a) CpMdPd



(b) CpMdPd



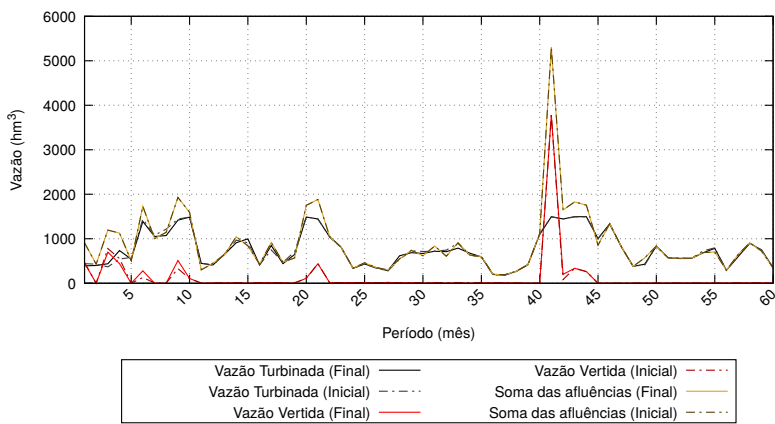
(a) CpMdPd



(b) CpMdPd

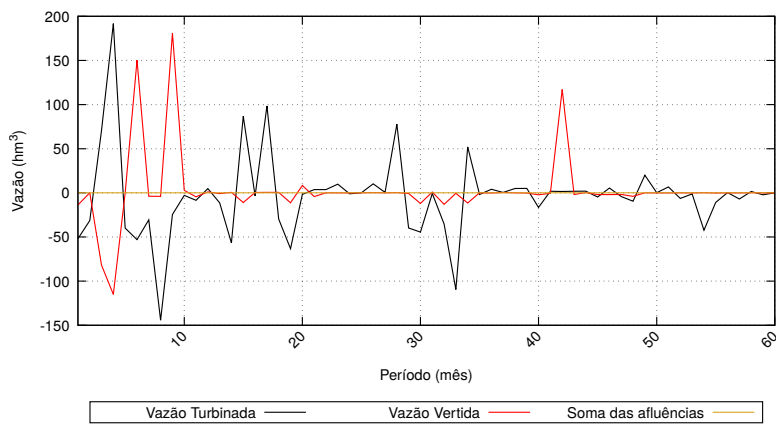
23.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



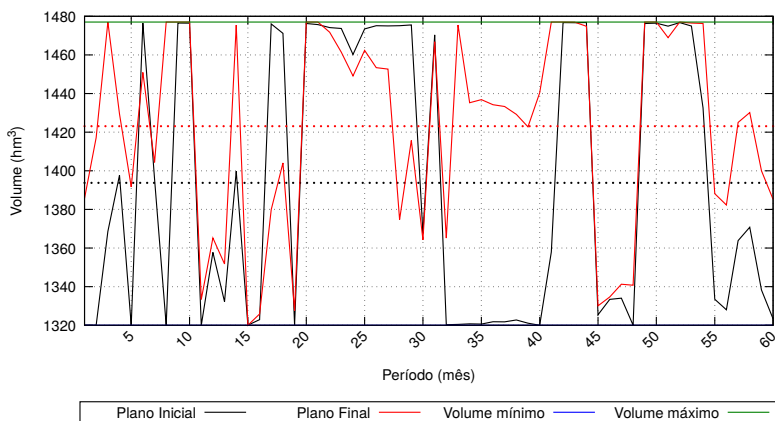
(a) CpMdPi

CpMdPi - Vazão - Diferença



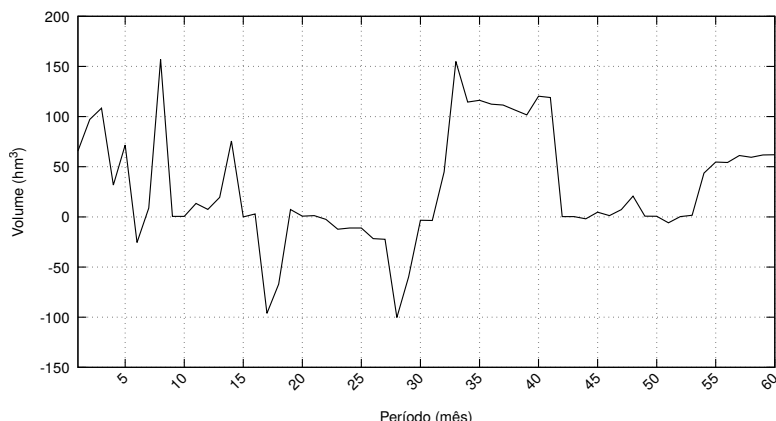
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



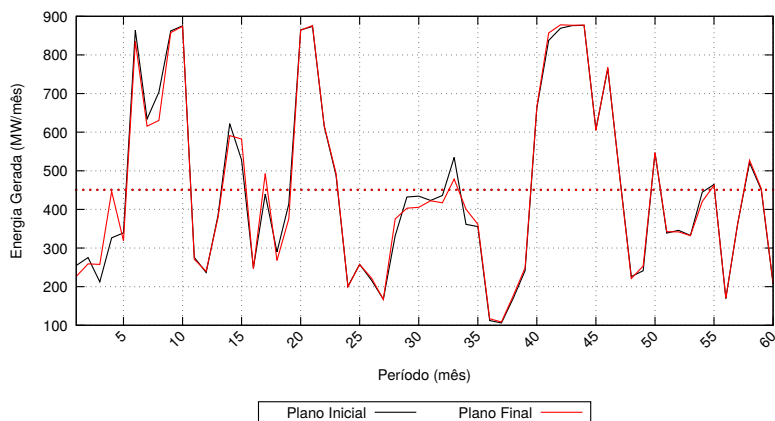
(a) CpMdPi

CpMdPi - Volume - Diferença



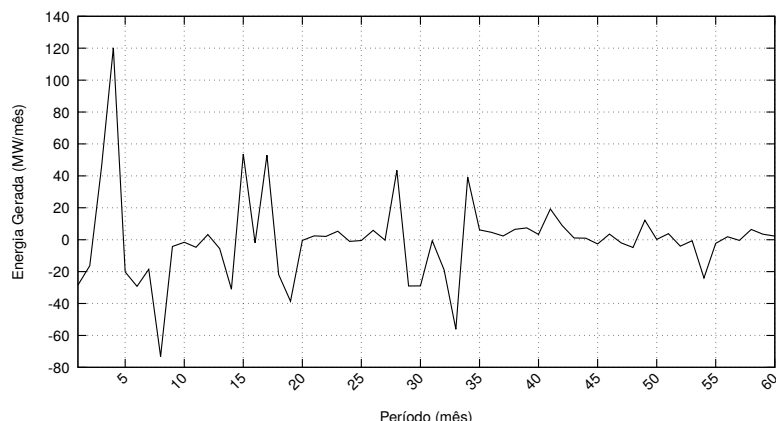
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

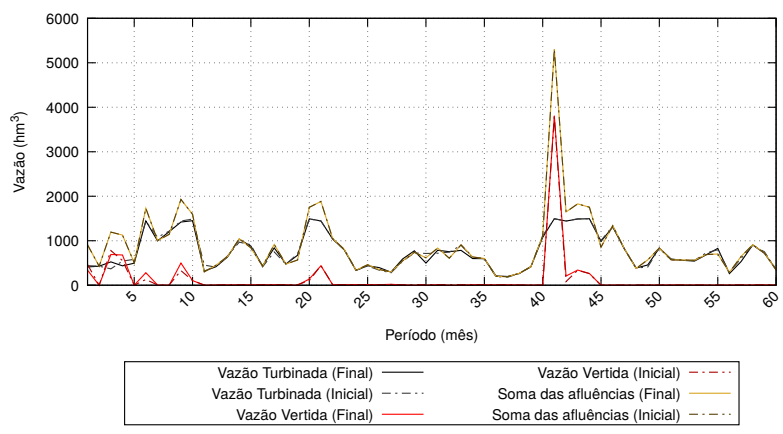
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

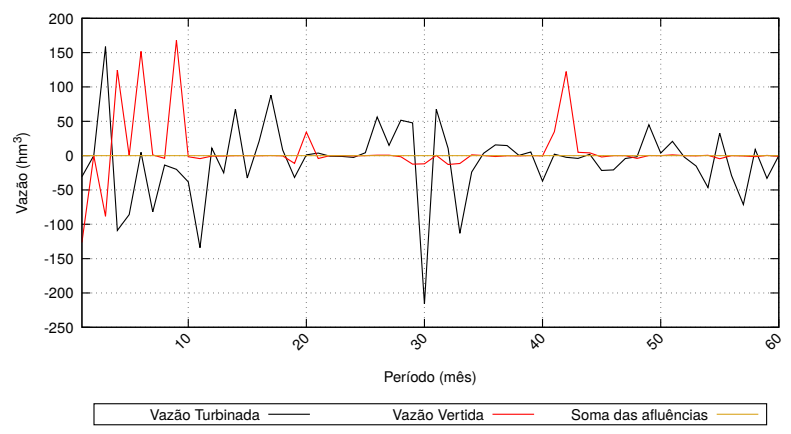
23.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



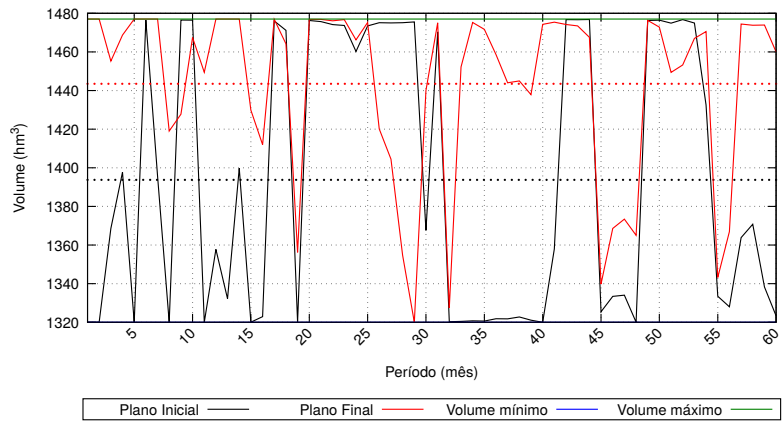
(a) CpMiPd

CpMiPd - Vazão - Diferença



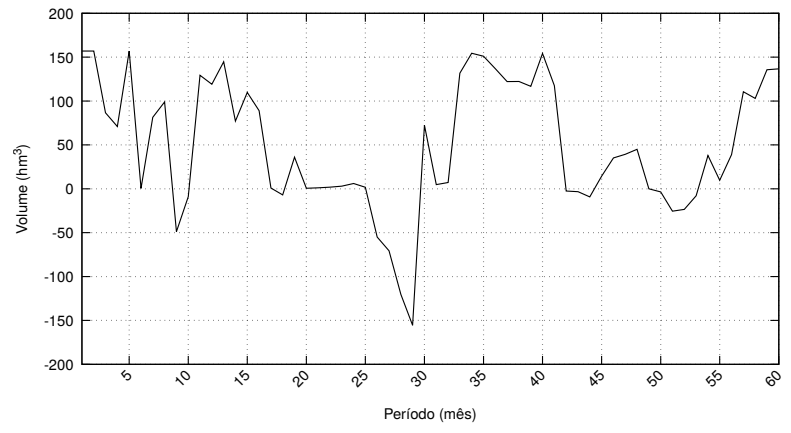
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



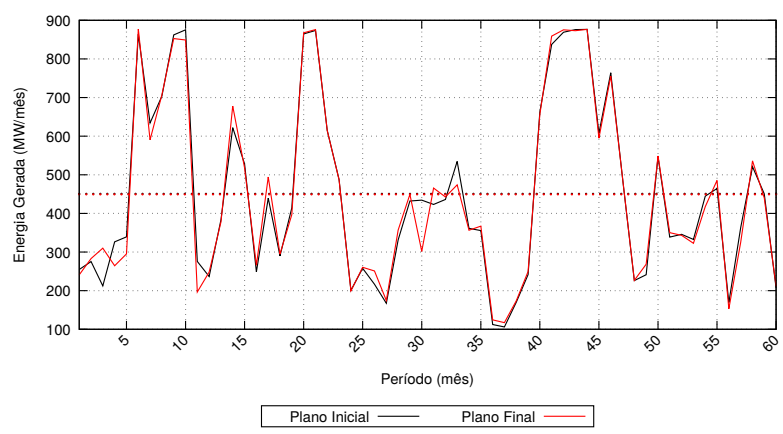
(a) CpMiPd

CpMiPd - Volume - Diferença



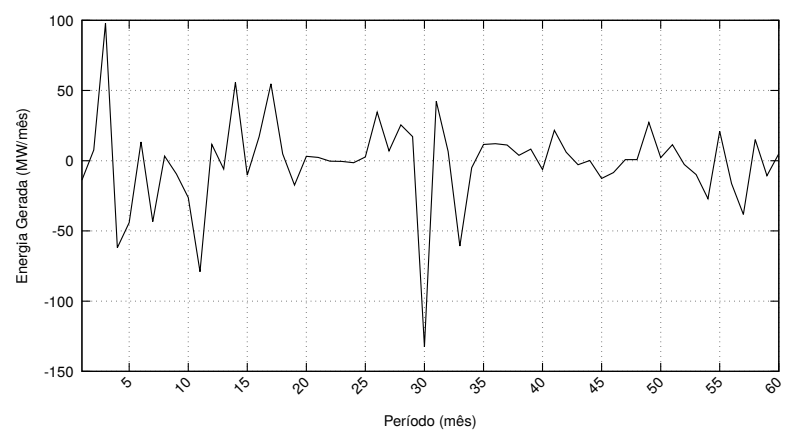
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

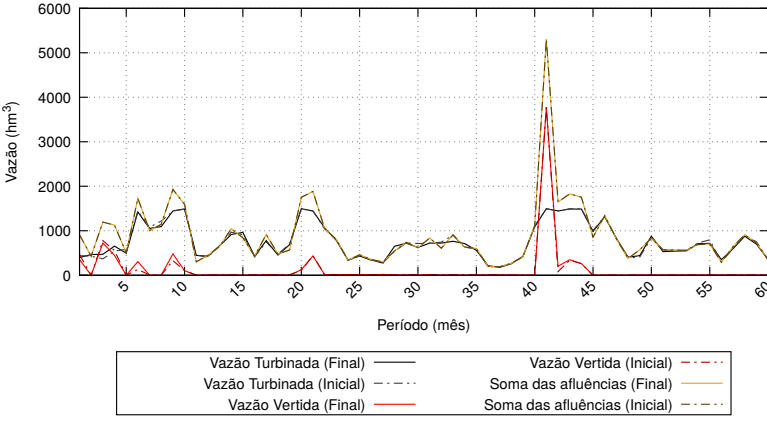
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

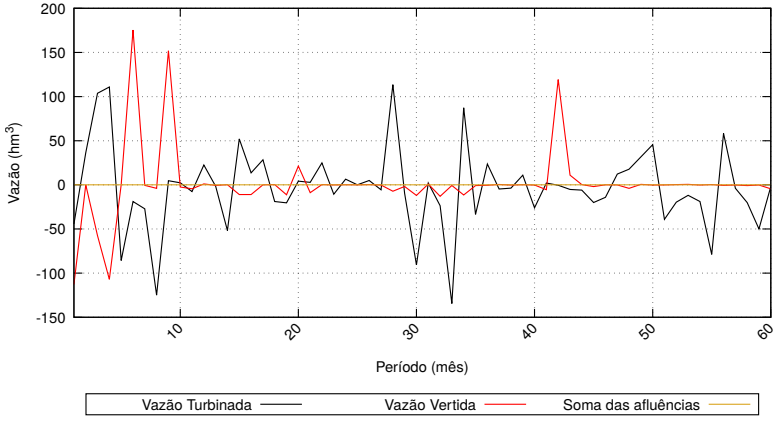
23.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



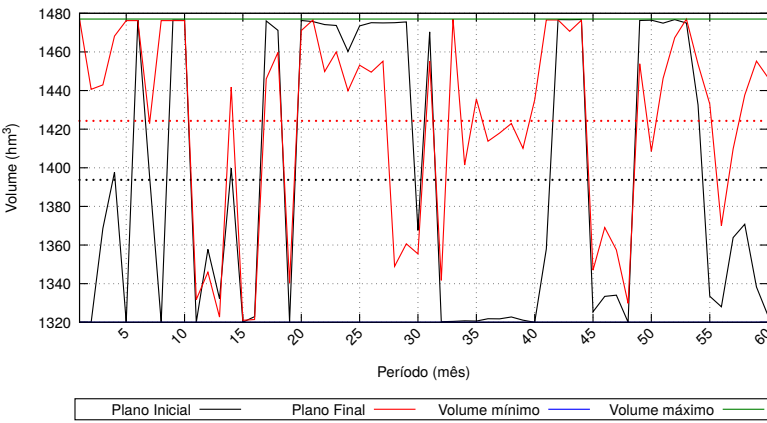
(a) CpMiPi

CpMiPi - Vazão - Diferença



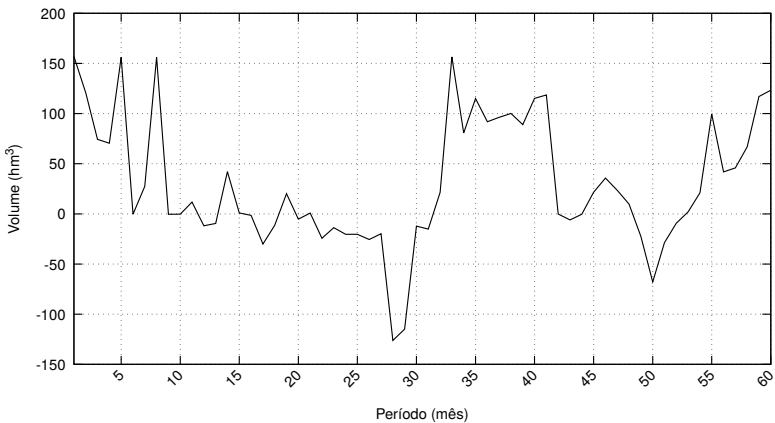
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



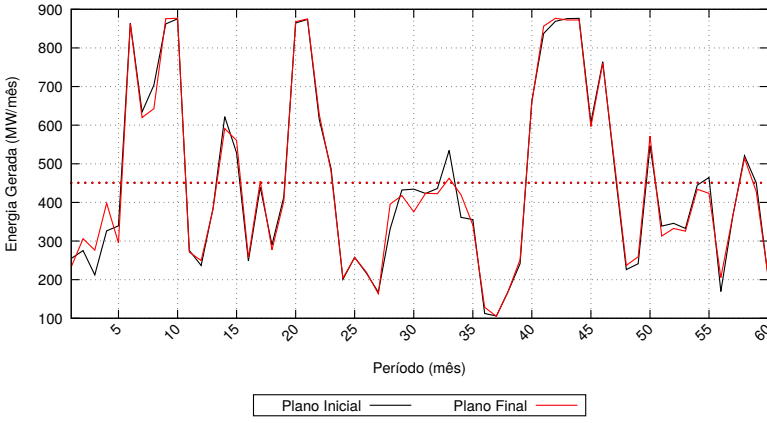
(a) CpMiPi

CpMiPi - Volume - Diferença



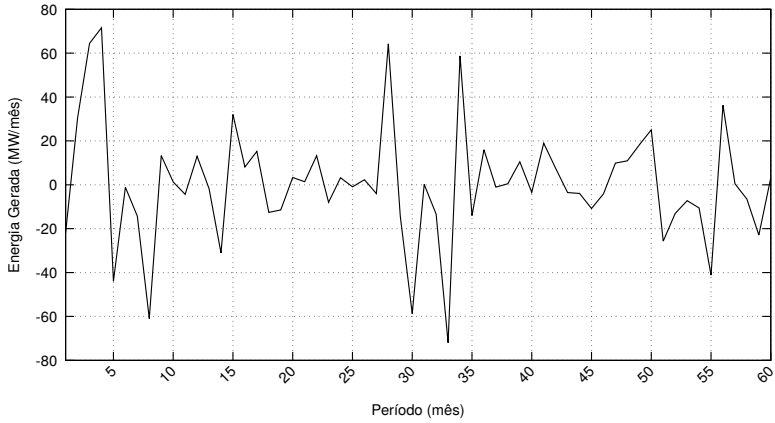
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

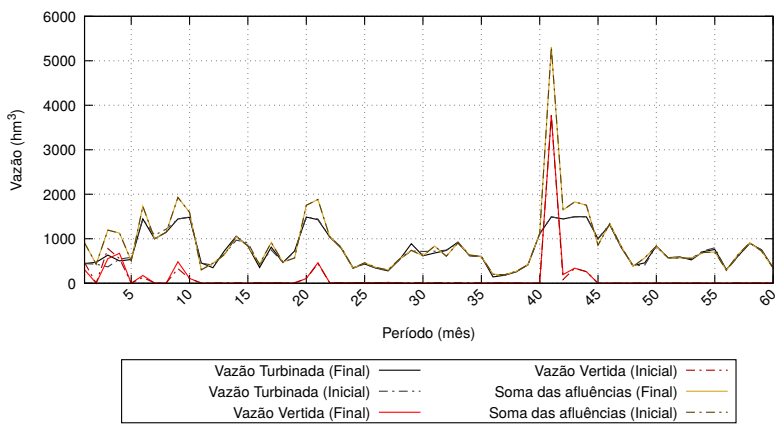
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

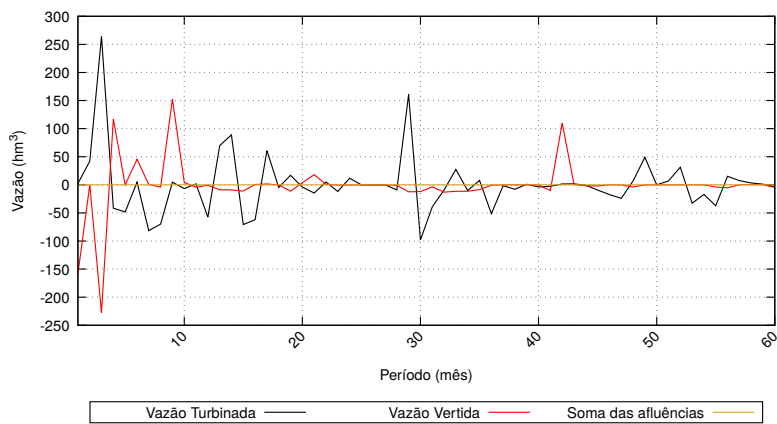
23.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



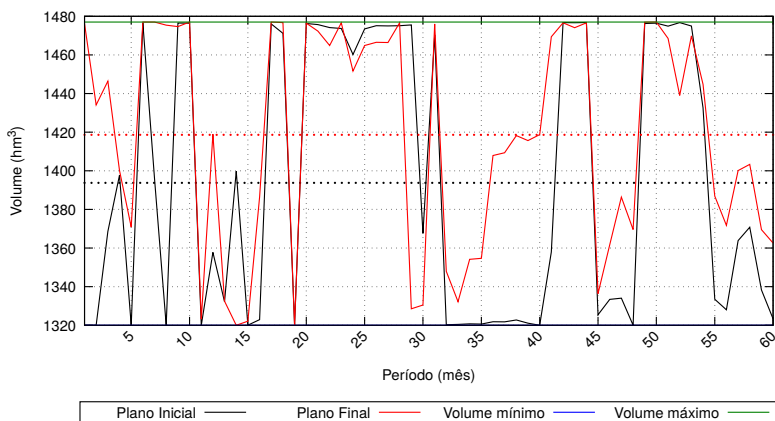
(a) SpPd

SpPd - Vazão - Diferença



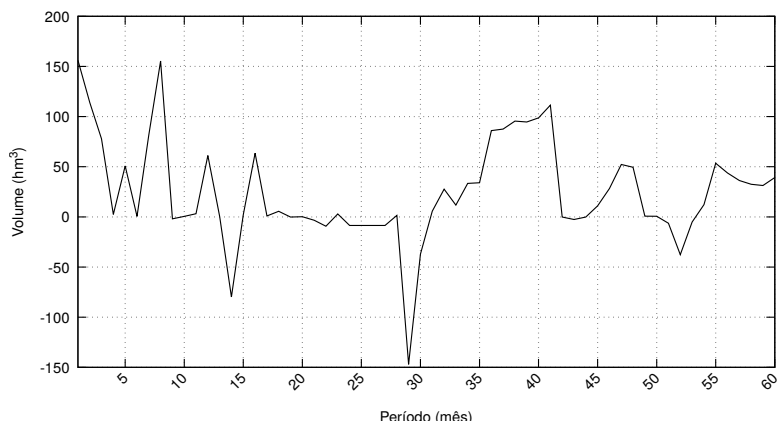
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



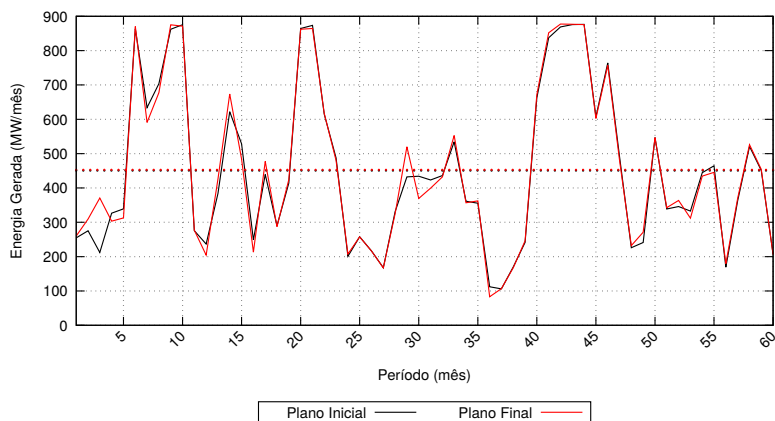
(a) SpPd

SpPd - Volume - Diferença



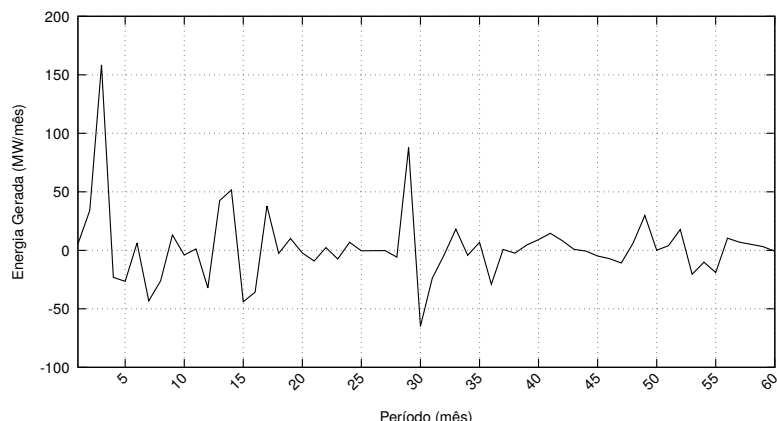
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

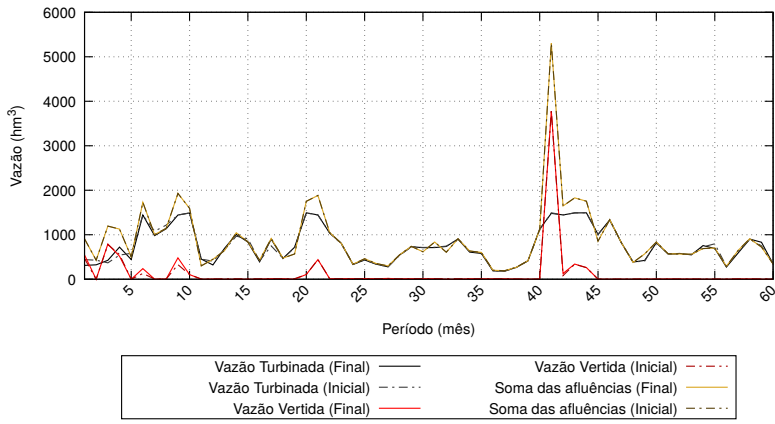
SpPd - Energia Gerada - Diferença



(b) SpPd

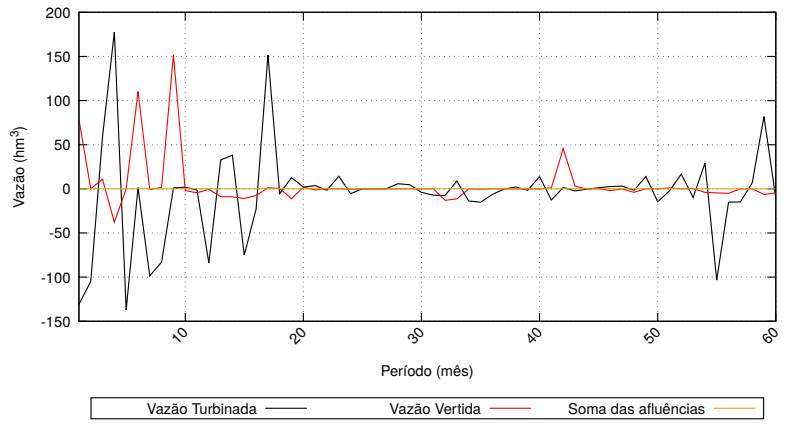
23.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



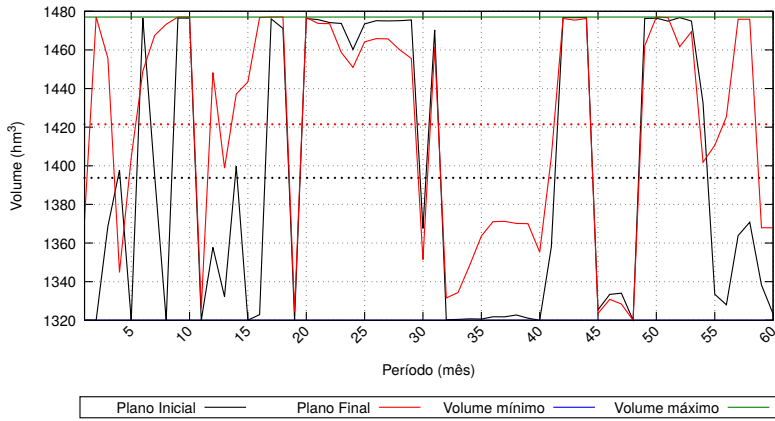
(a) SpPi

SpPi - Vazão - Diferença



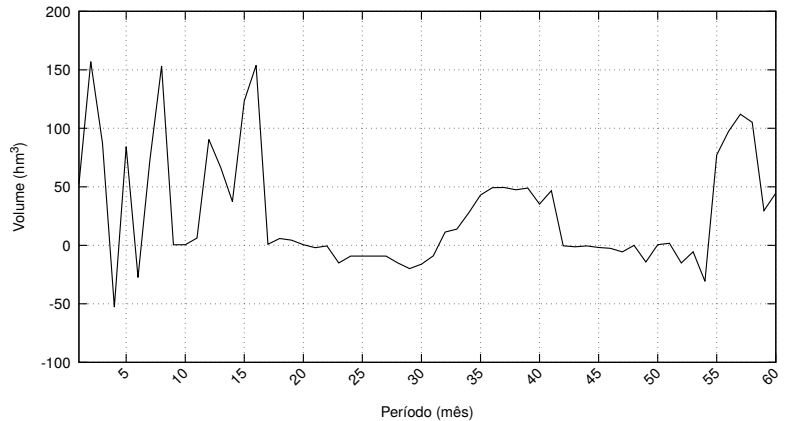
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



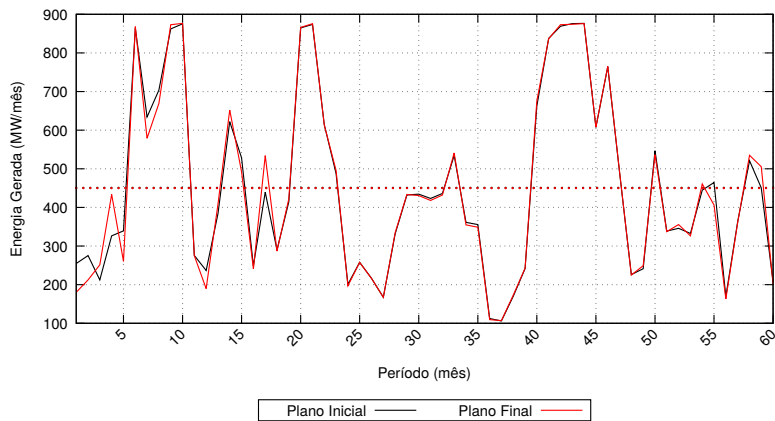
(a) SpPi

SpPi - Volume - Diferença



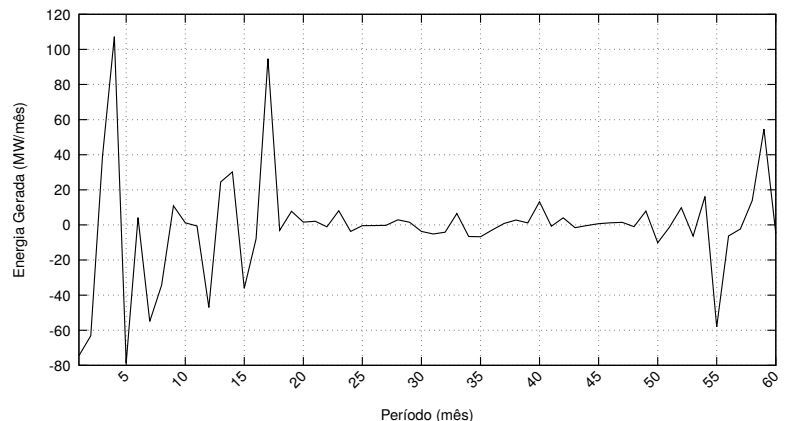
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

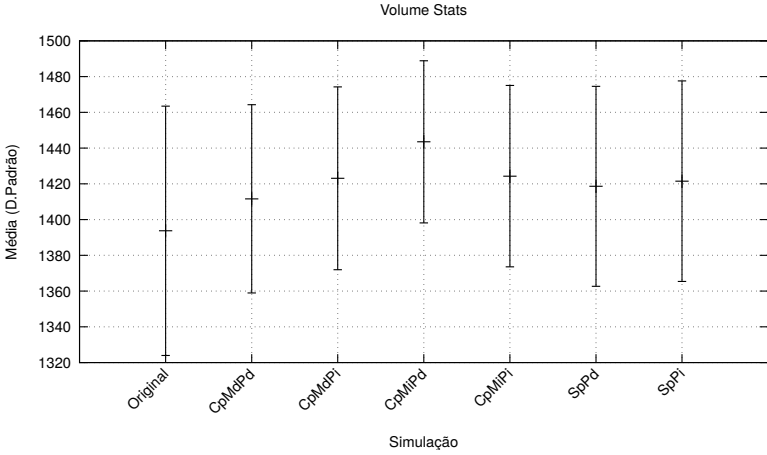
SpPi - Energia Gerada - Diferença



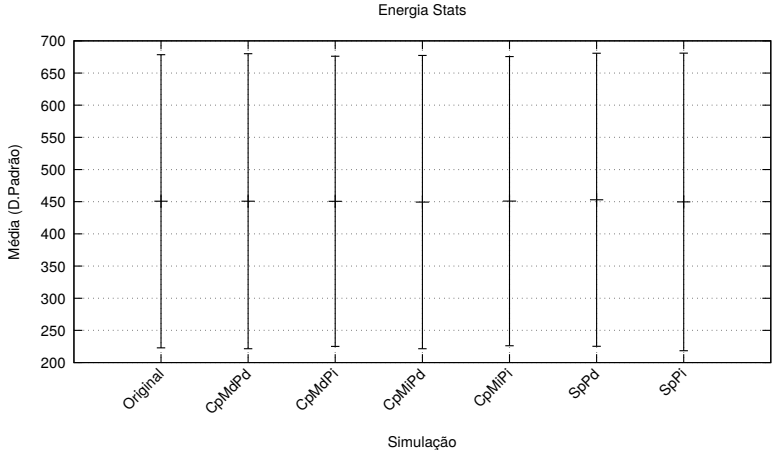
(b) SpPi

Tabela 28: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	1393.73163	69.74163	450.69118	227.80838
CpMdPd	1411.60482	52.65340	450.75656	229.31806
CpMdPi	1423.08957	51.16347	450.60780	225.44226
CpMiPd	1443.51546	45.35882	449.34016	227.88804
CpMiPi	1424.28682	50.74975	450.88503	224.71845
SpPd	1418.61645	55.95777	453.01066	227.78702
SpPi	1421.47533	56.09517	449.72485	231.26425

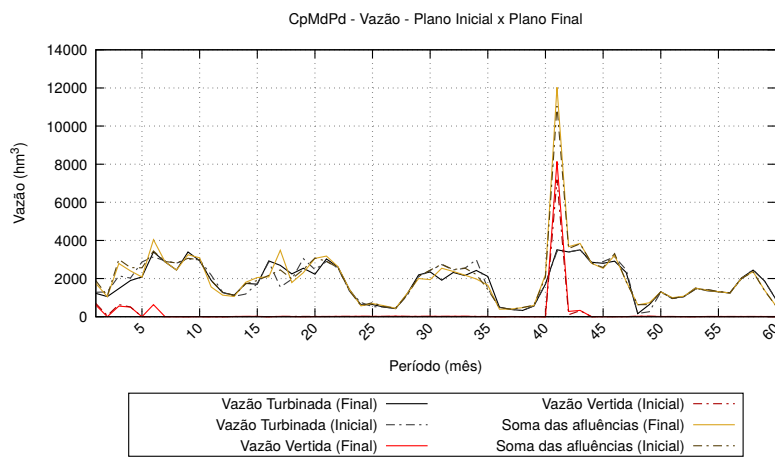


(a) Volume

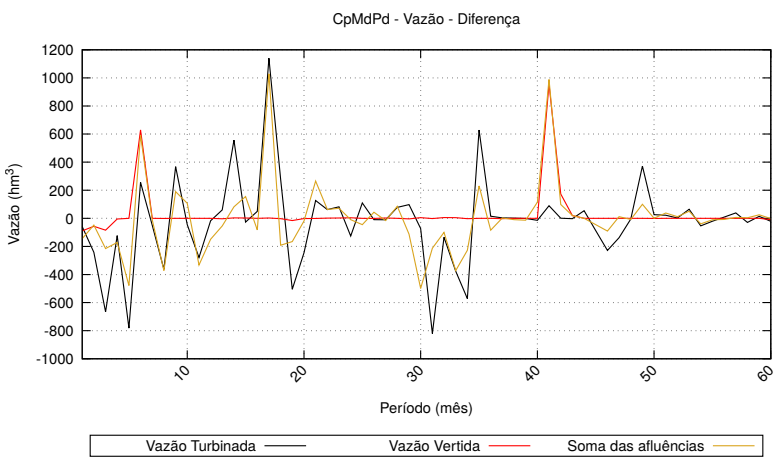


(b) Energia

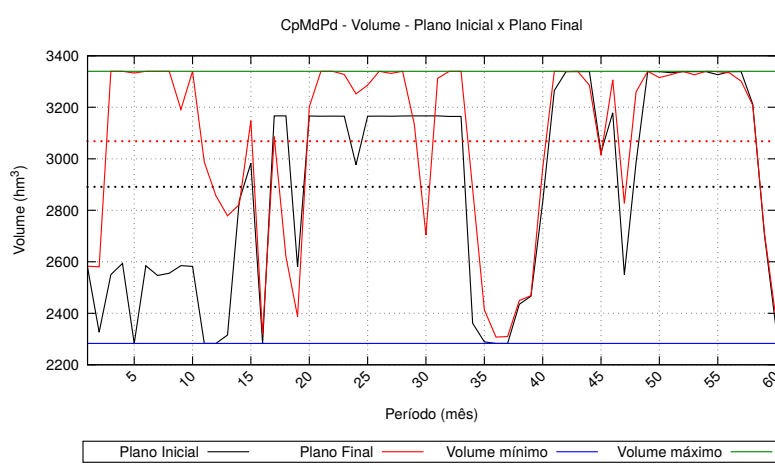
24.1 Resultados - CpMdpd



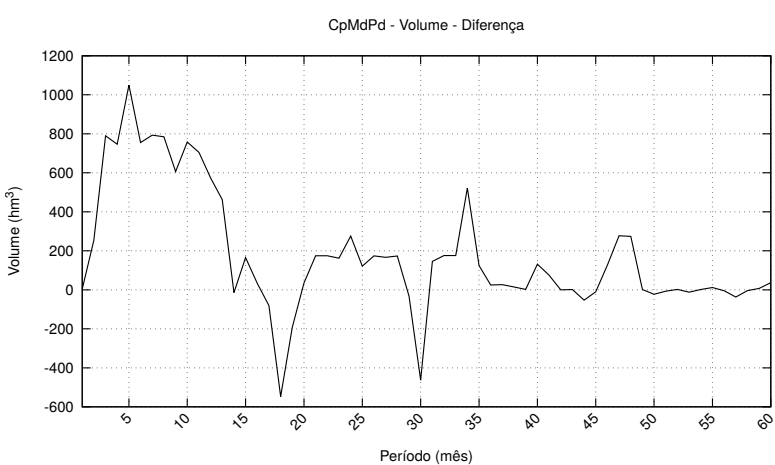
(a) CpMdpd



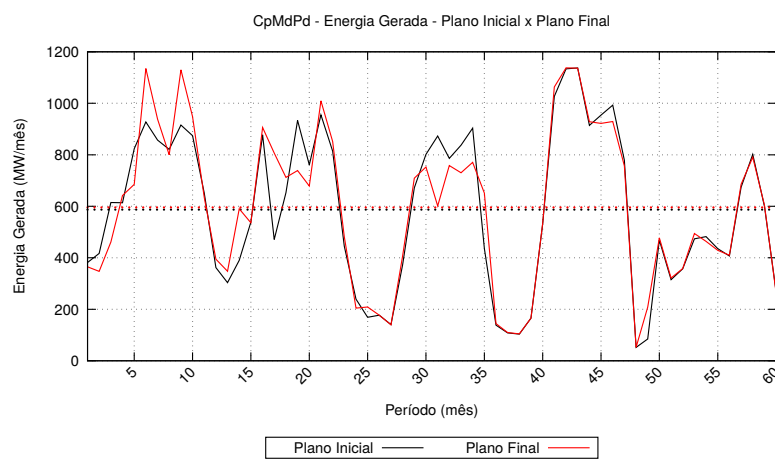
(b) CpMdpd



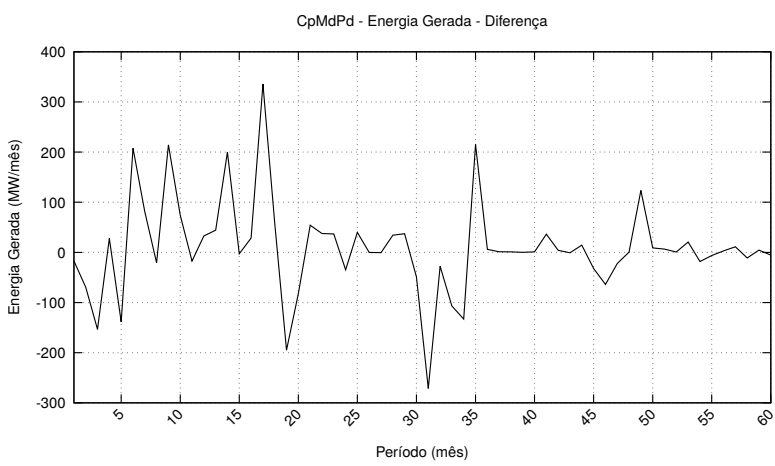
(a) CpMdpd



(b) CpMdpd



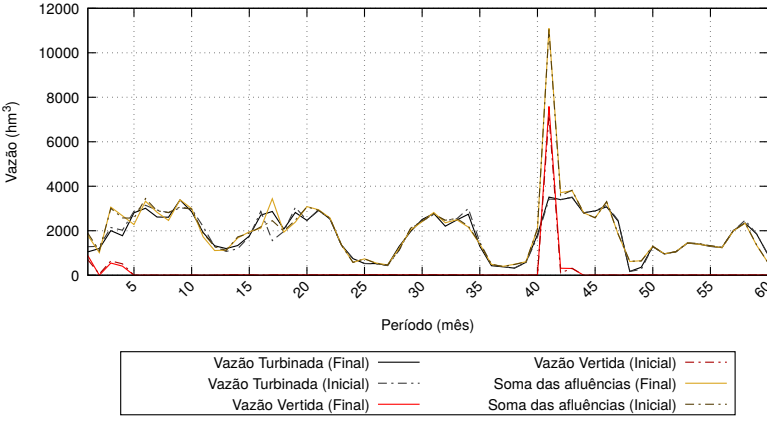
(a) CpMdpd



(b) CpMdpd

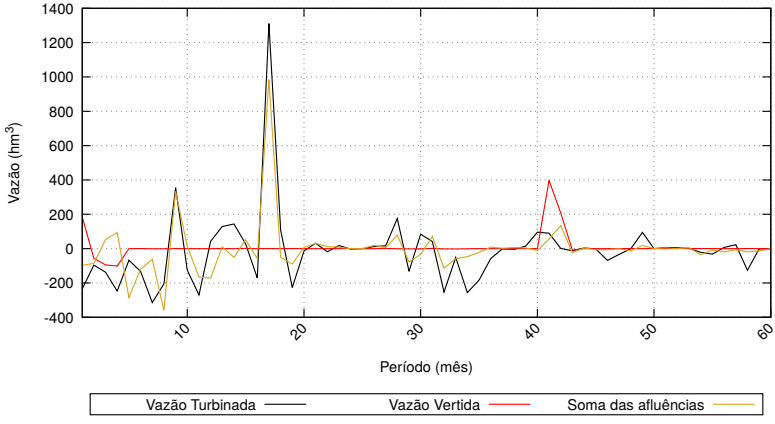
24.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



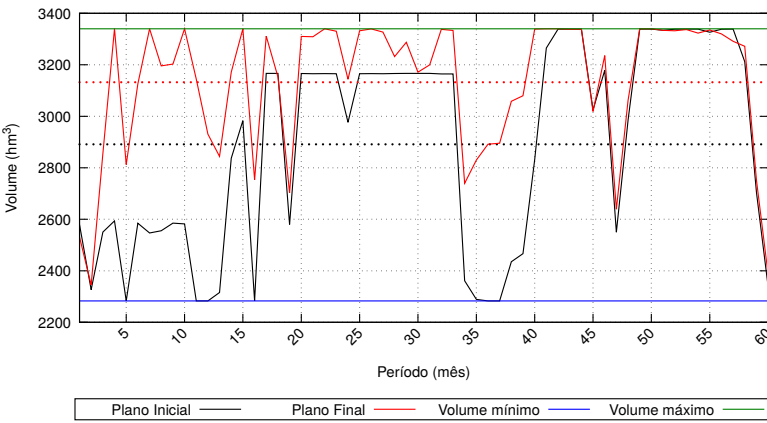
(a) CpMdPi

CpMdPi - Vazão - Diferença



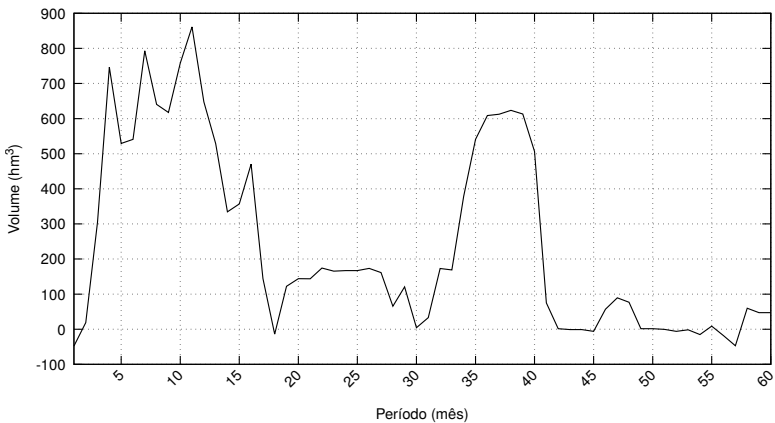
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



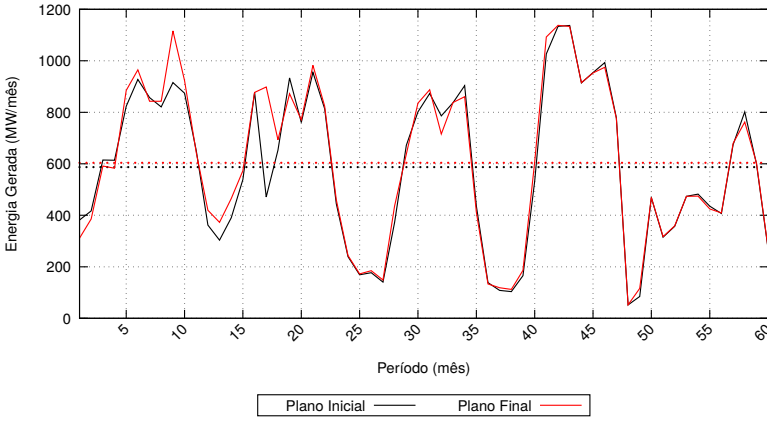
(a) CpMdPi

CpMdPi - Volume - Diferença



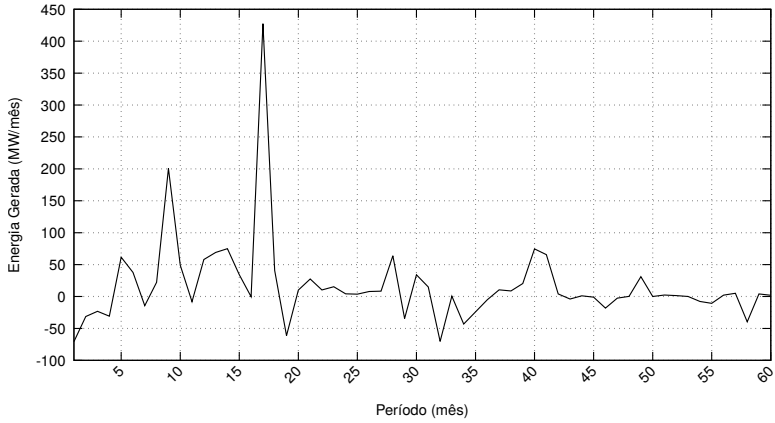
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

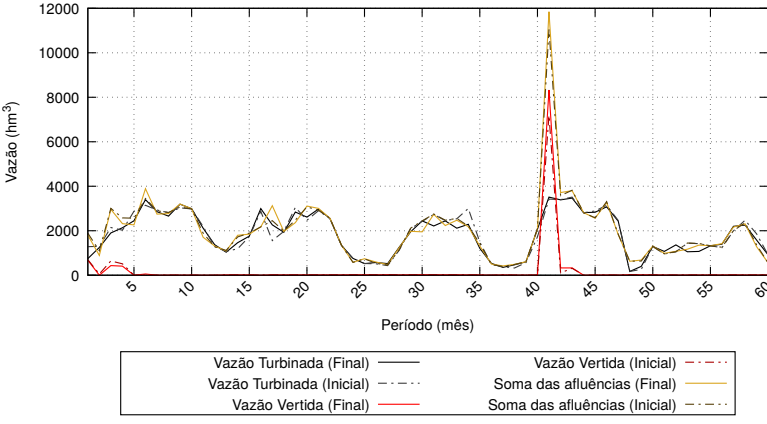
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

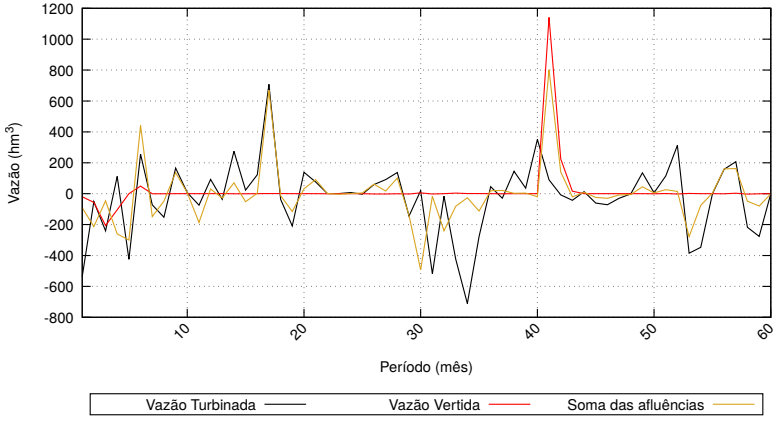
24.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



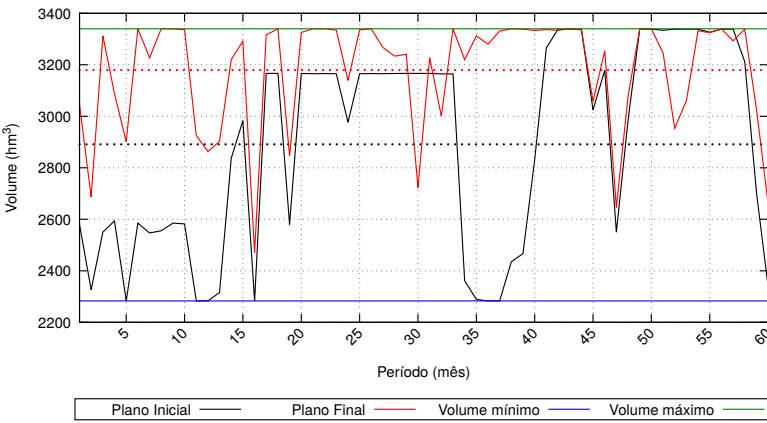
(a) CpMiPd

CpMiPd - Vazão - Diferença



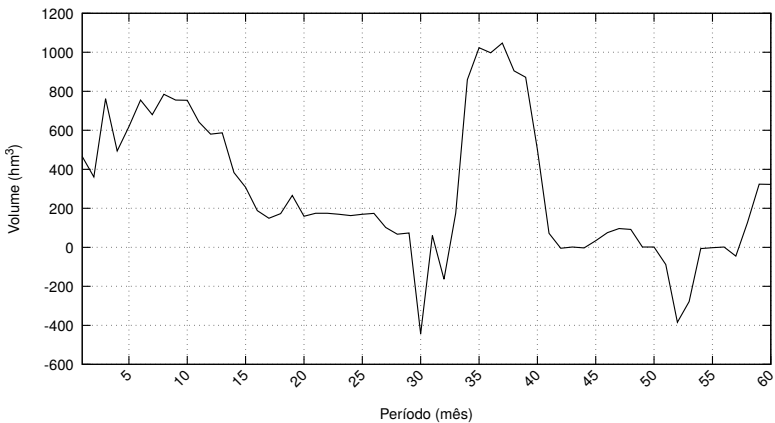
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



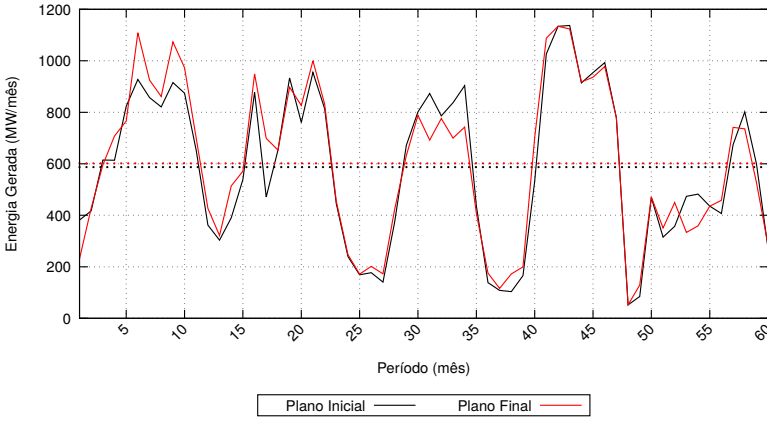
(a) CpMiPd

CpMiPd - Volume - Diferença



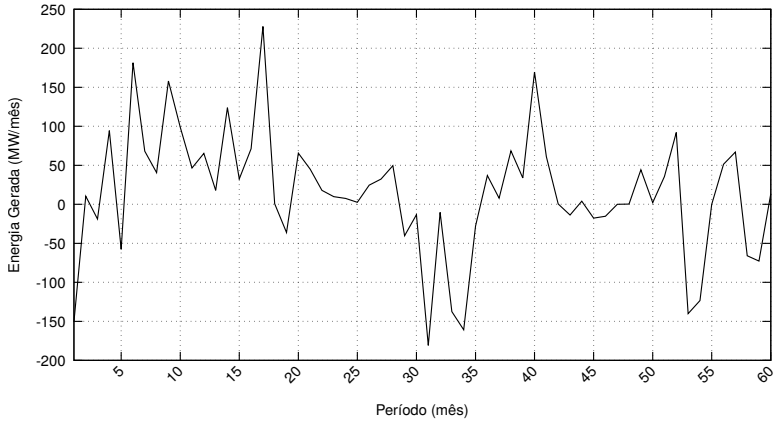
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

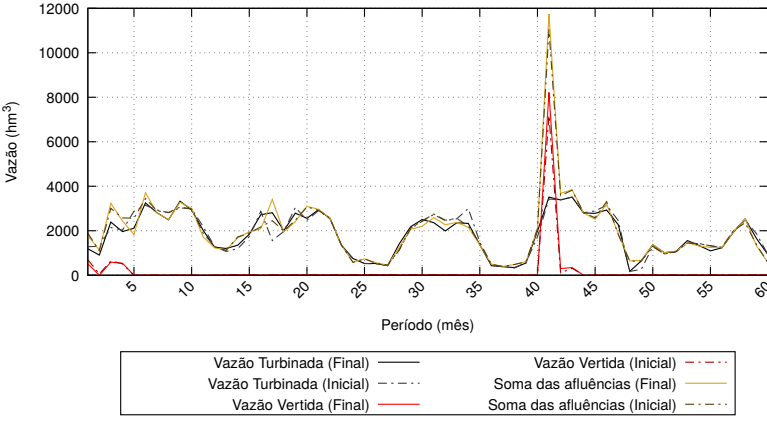
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

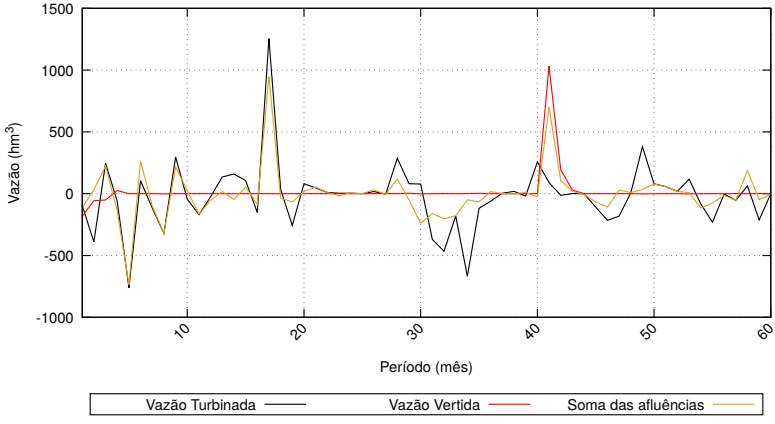
24.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



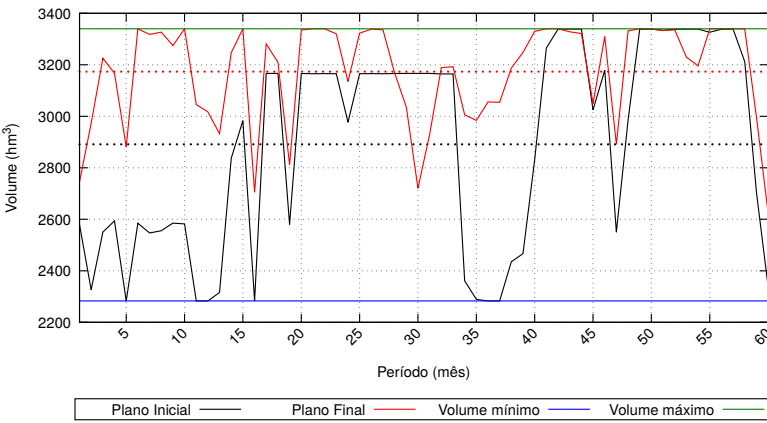
(a) CpMiPi

CpMiPi - Vazão - Diferença



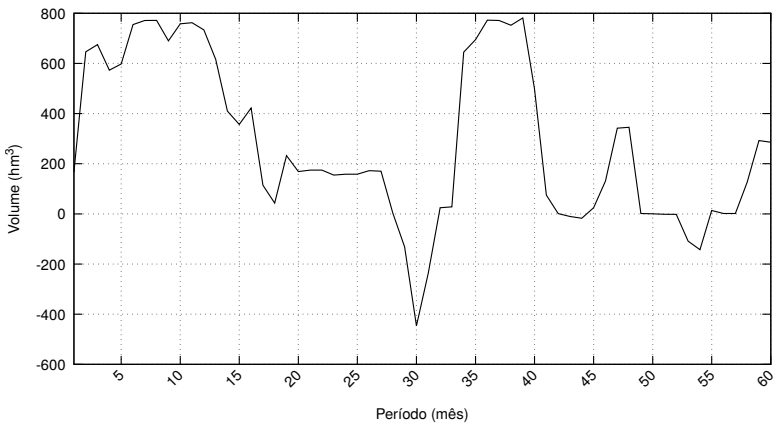
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



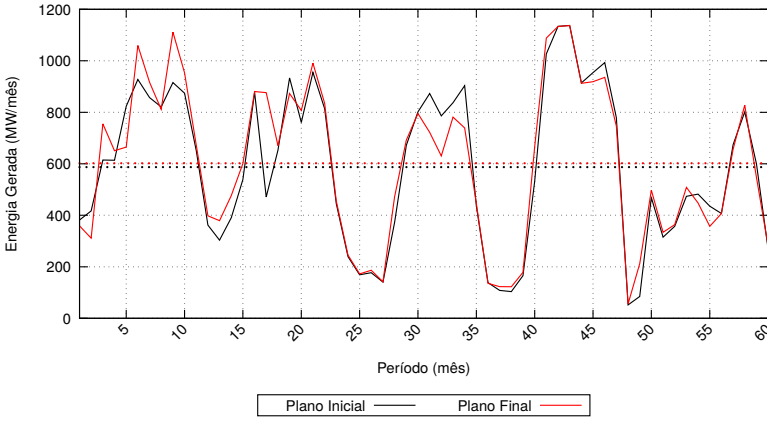
(a) CpMiPi

CpMiPi - Volume - Diferença



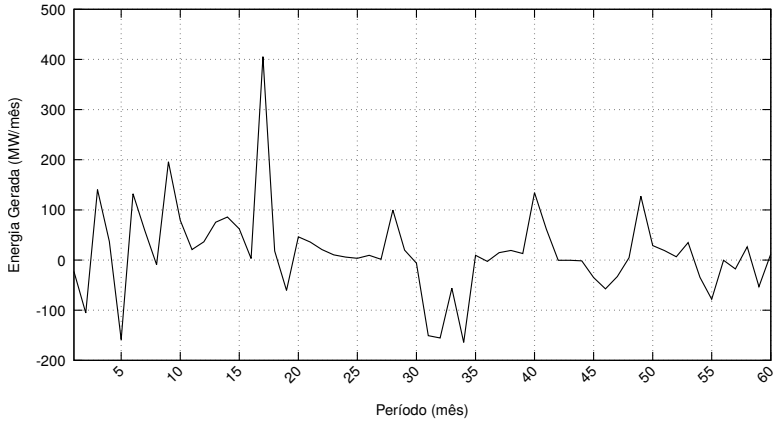
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



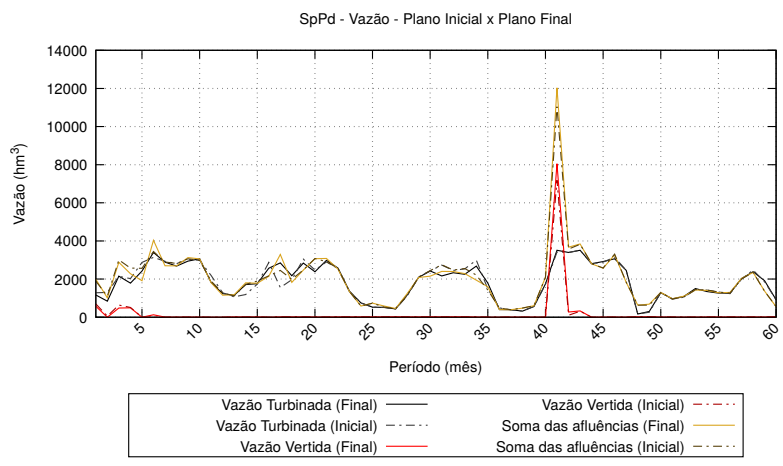
(a) CpMiPi

CpMiPi - Energia Gerada - Diferença

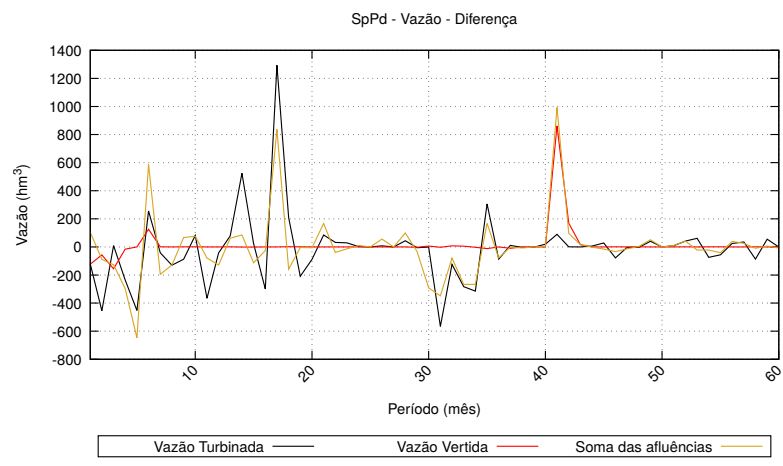


(b) CpMiPi

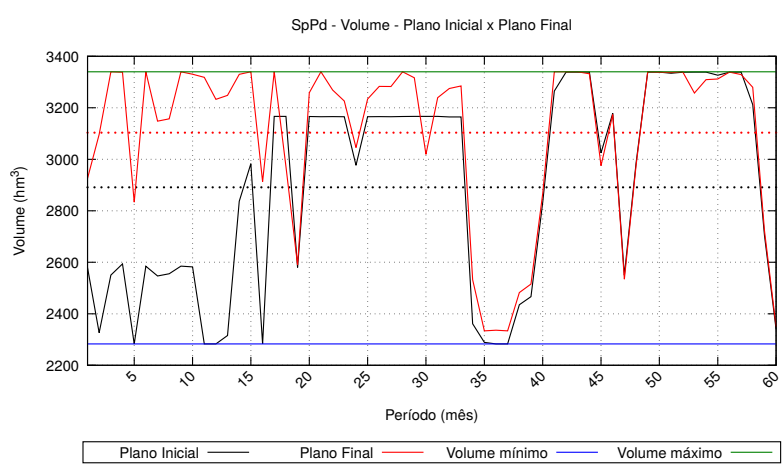
24.5 Resultados - SpPd



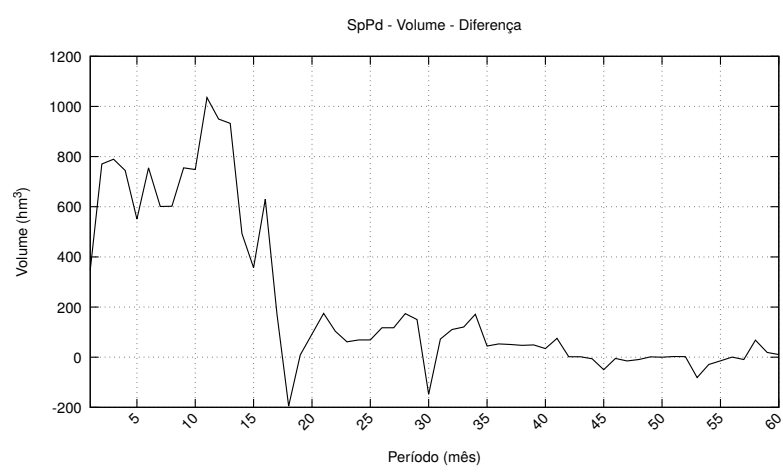
(a) SpPd



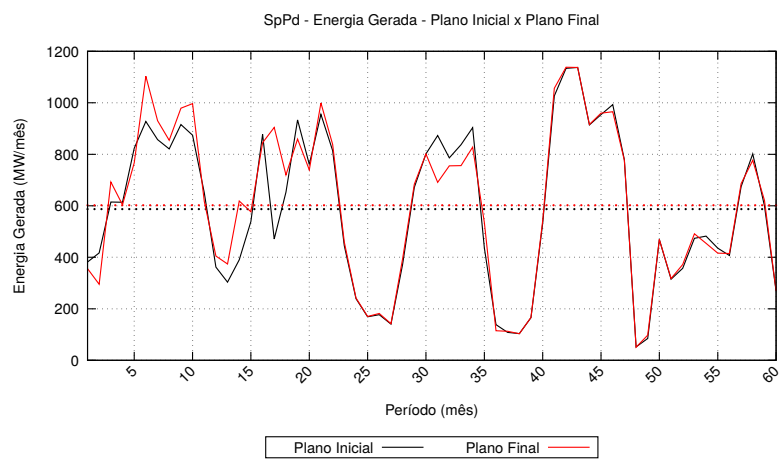
(b) SpPd



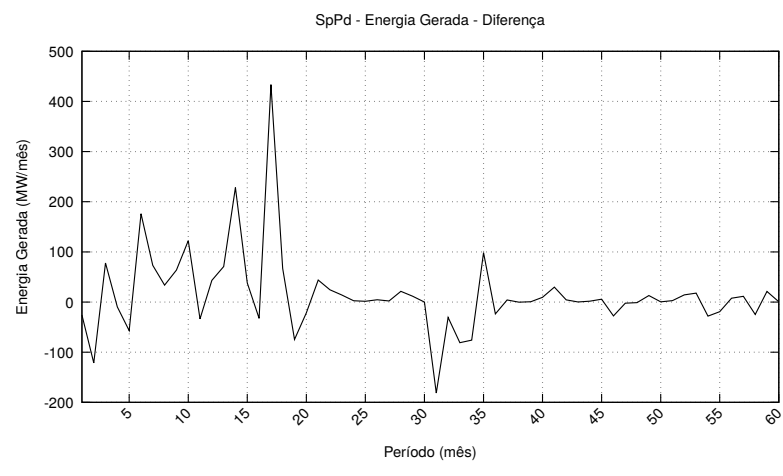
(a) SpPd



(b) SpPd

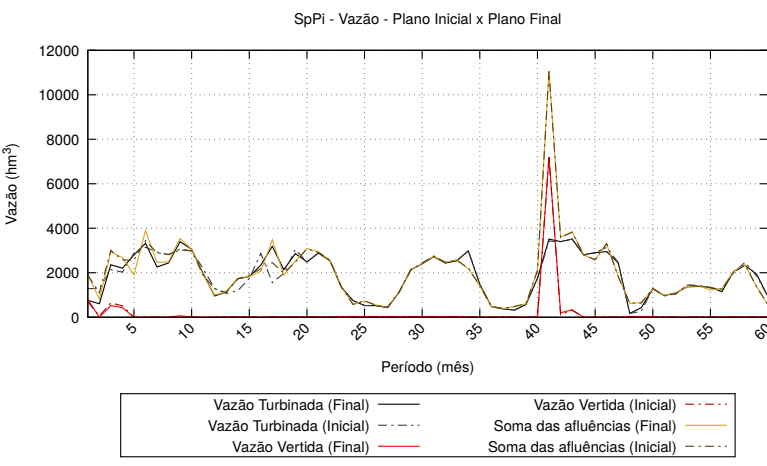


(a) SpPd

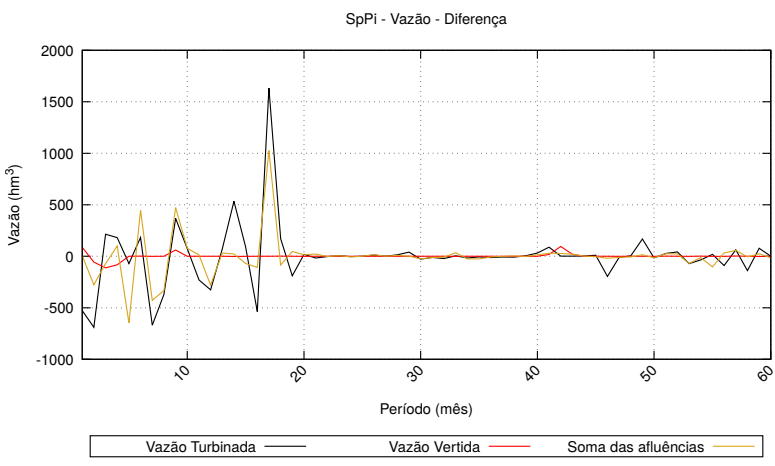


(b) SpPd

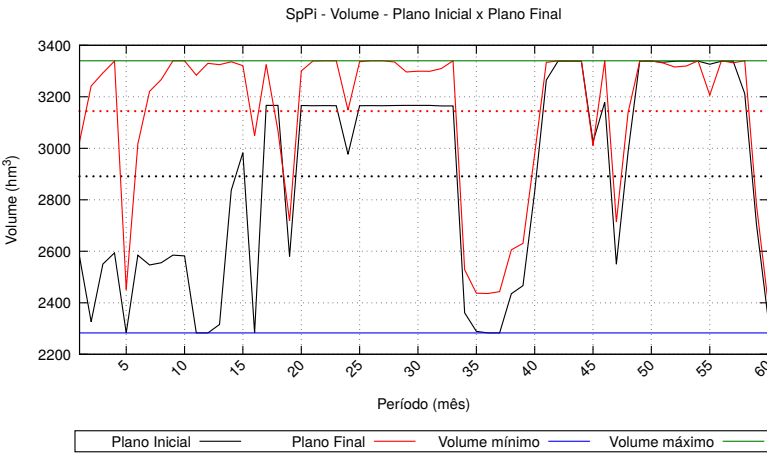
24.6 Resultados - SpPi



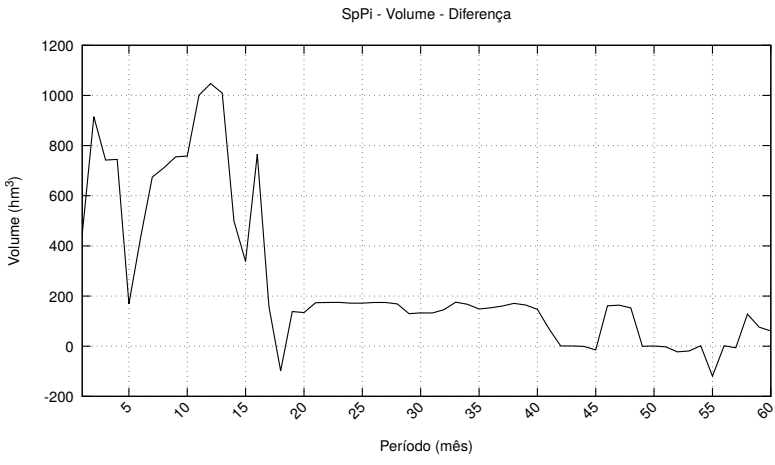
(a) SpPi



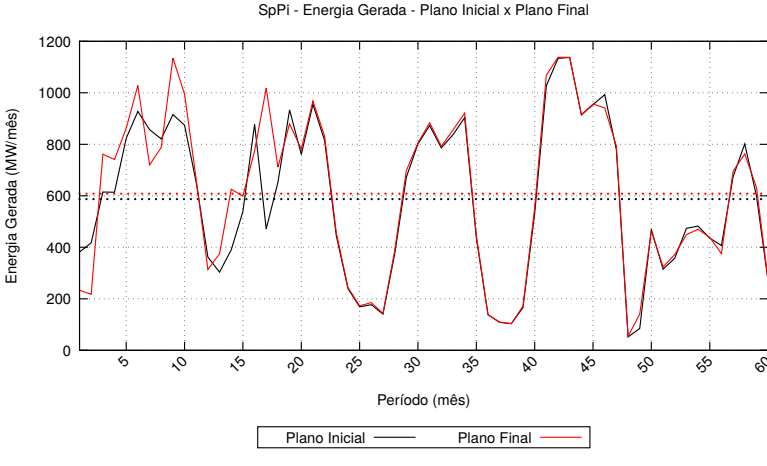
(b) SpPi



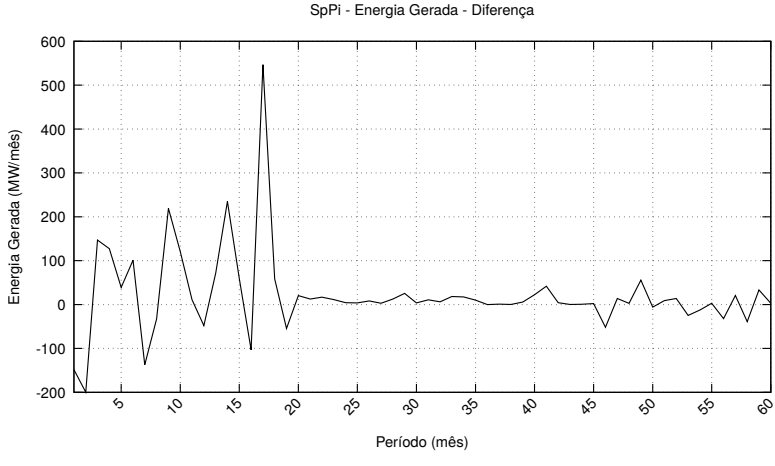
(a) SpPi



(b) SpPi



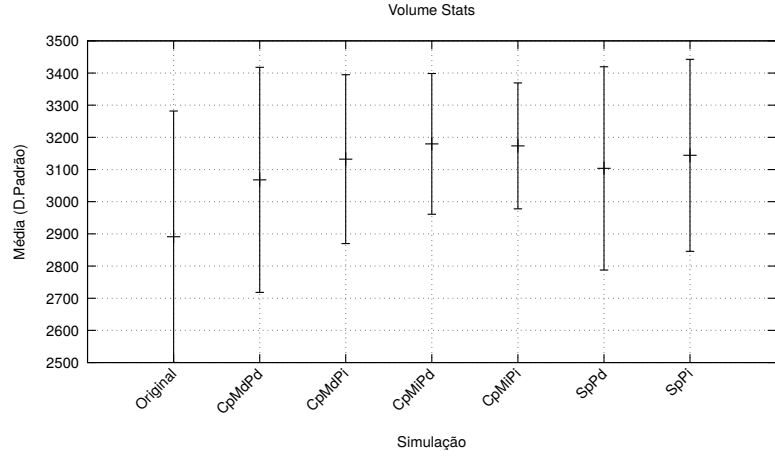
(a) SpPi



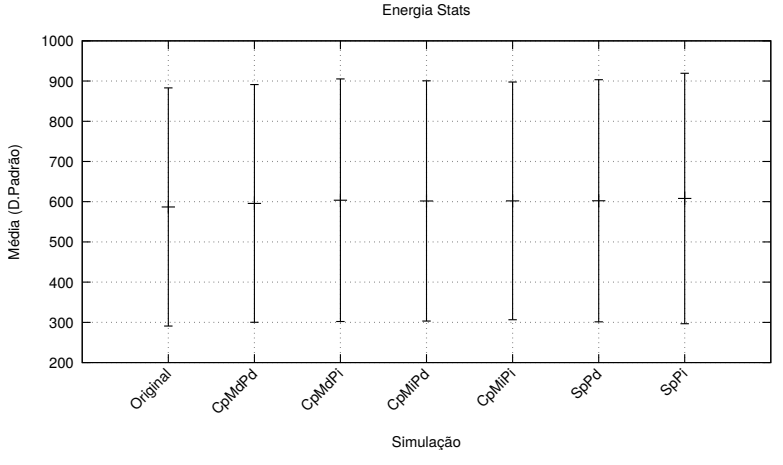
(b) SpPi

Tabela 29: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	2891.16499	390.79629	586.91502	296.18680
CpMdPd	3068.06986	349.87366	595.66853	295.62854
CpMdPi	3132.32208	262.55947	603.73115	301.55076
CpMiPd	3179.60710	218.77330	601.89022	298.82693
CpMiPi	3173.56710	195.60553	602.09180	295.59719
SpPd	3103.55586	316.10229	602.32350	301.11645
SpPi	3144.13725	298.43010	608.04438	311.41148

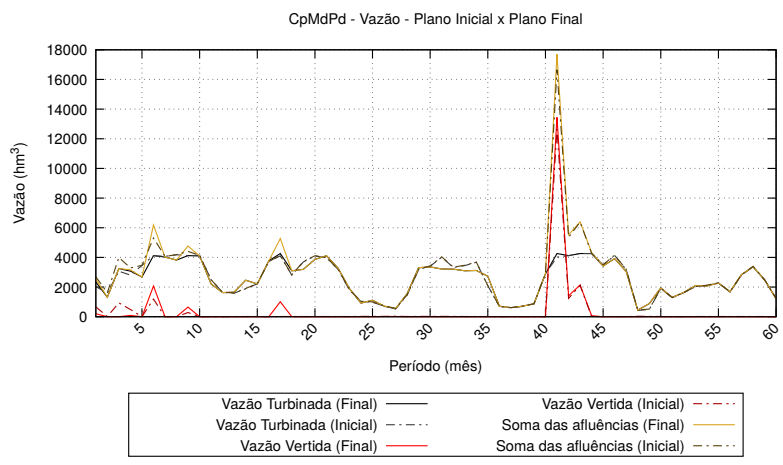


(a) Volume

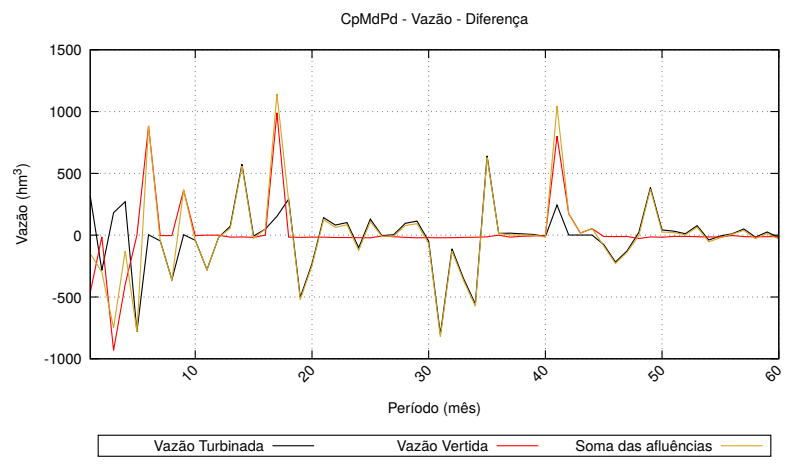


(b) Energia

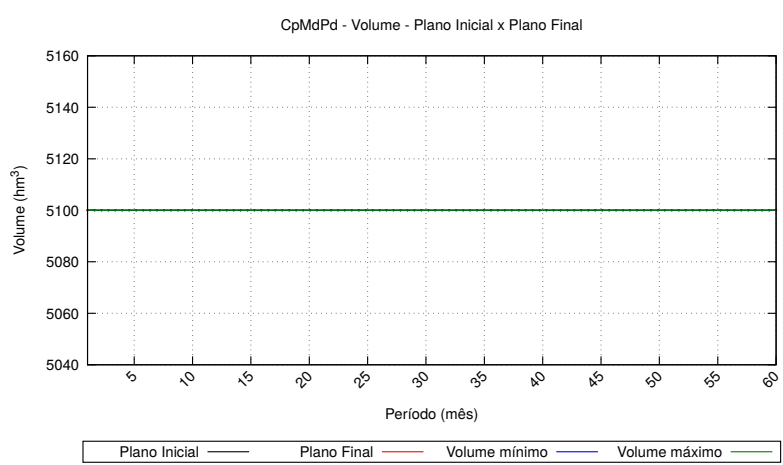
25.1 Resultados - CpMdPd



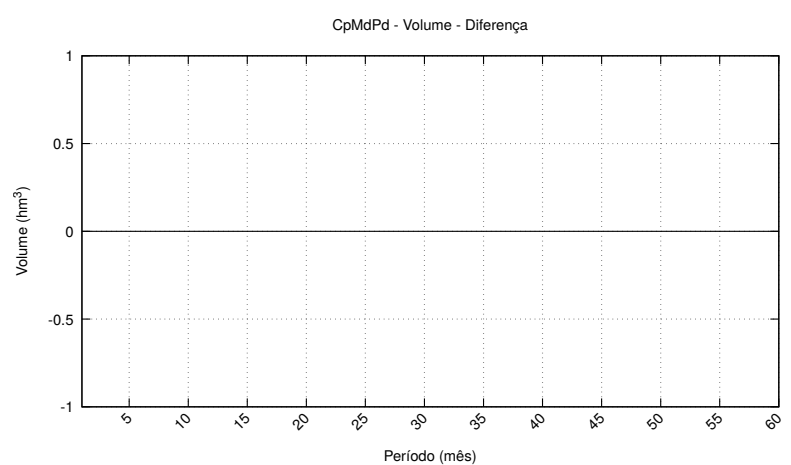
(a) CpMdPd



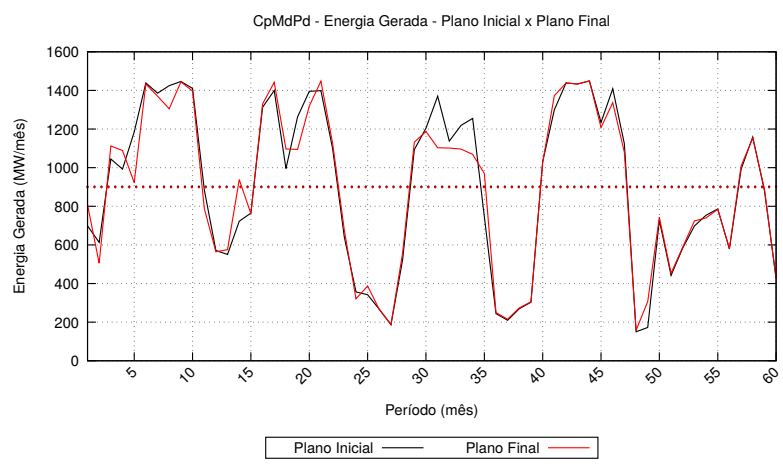
(b) CpMdPd



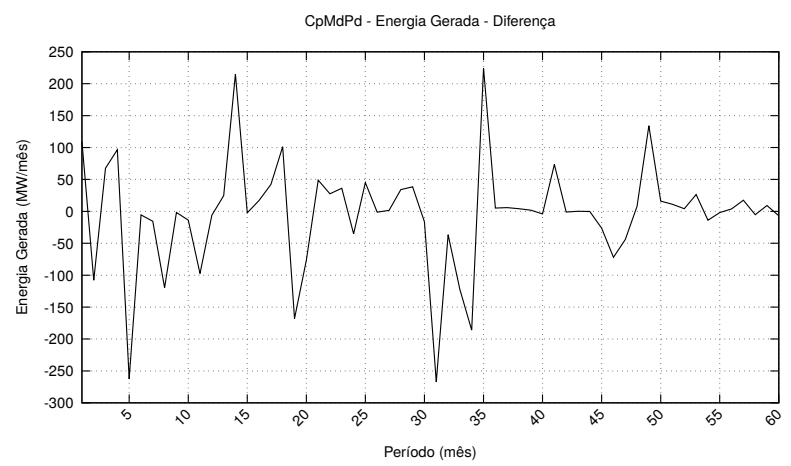
(a) CpMdPd



(b) CpMdPd



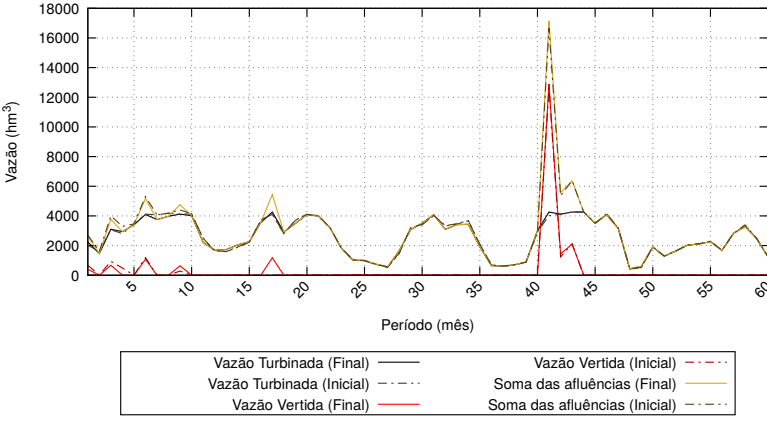
(a) CpMdPd



(b) CpMdPd

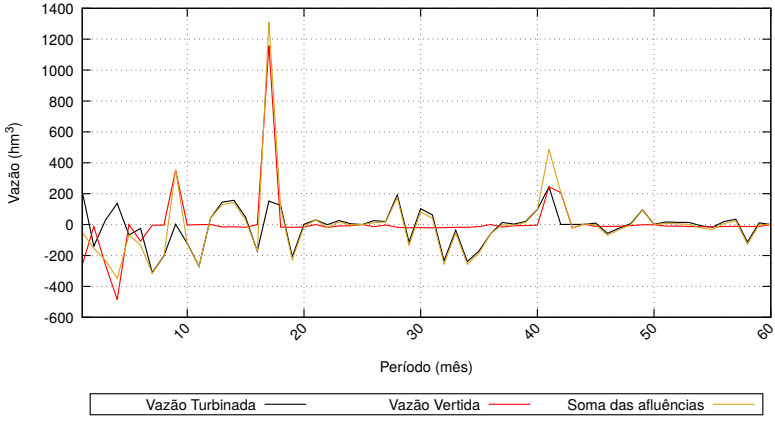
25.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



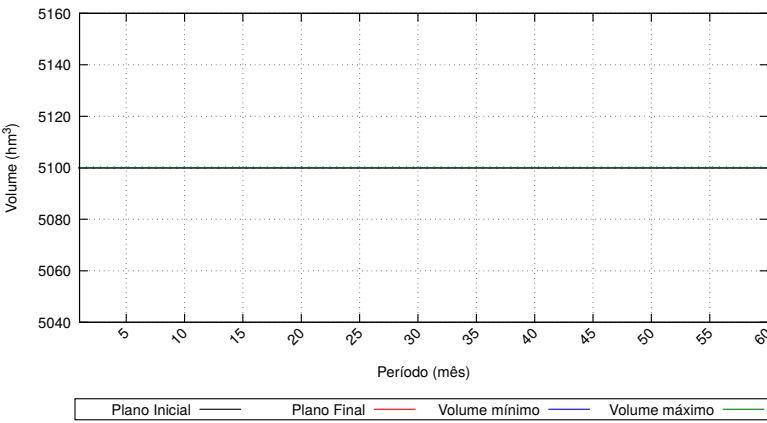
(a) CpMdPi

CpMdPi - Vazão - Diferença



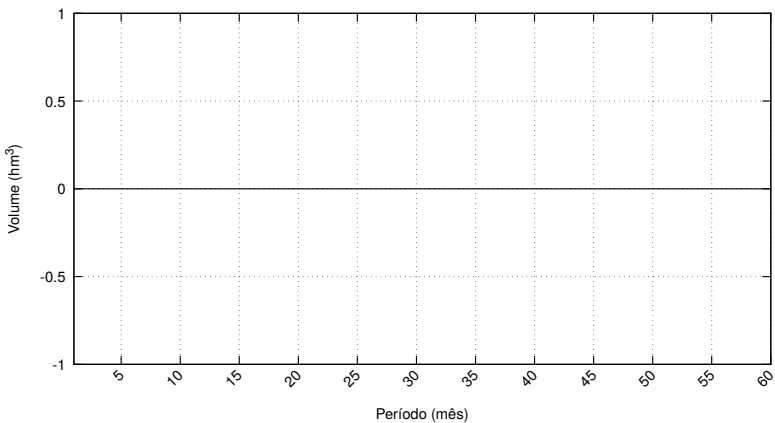
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



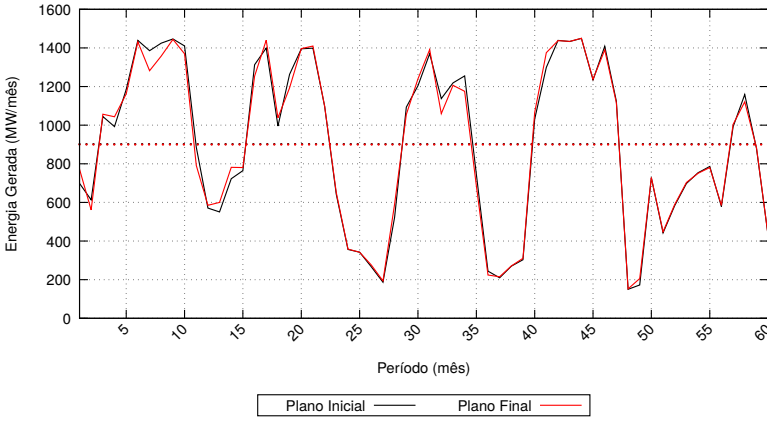
(a) CpMdPi

CpMdPi - Volume - Diferença



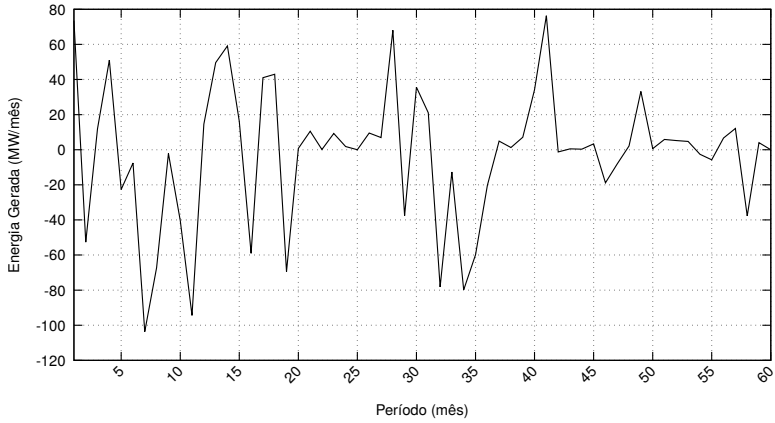
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

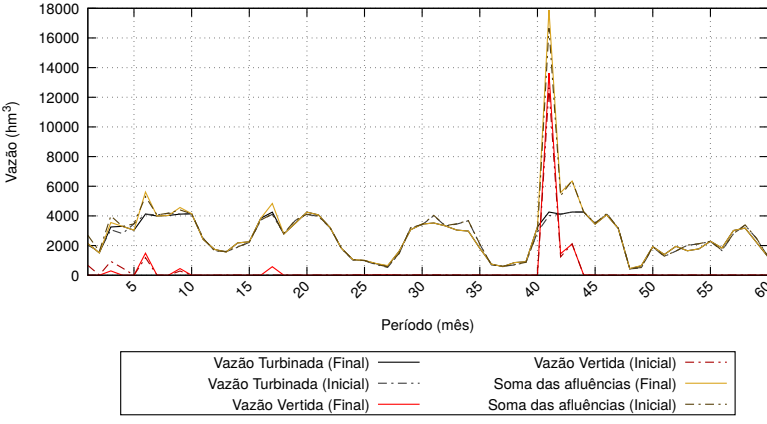
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

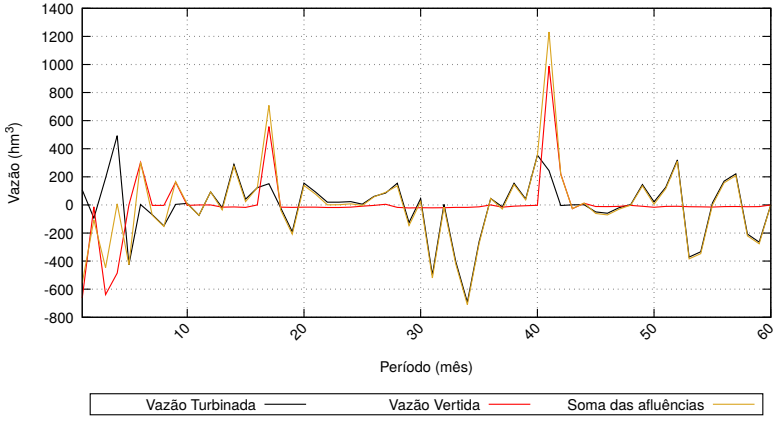
25.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



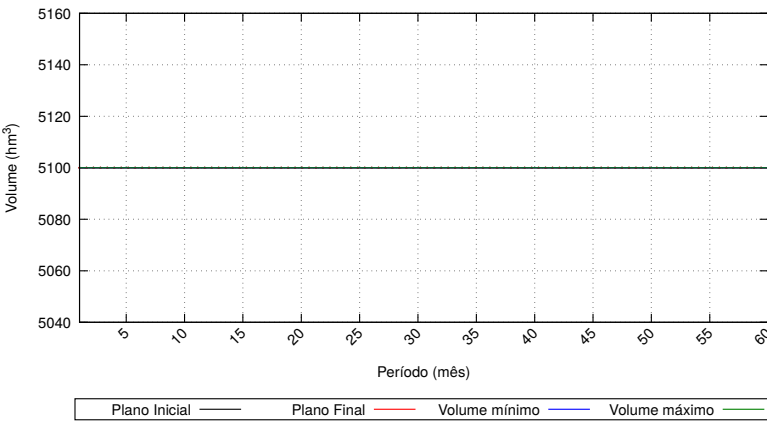
(a) CpMiPd

CpMiPd - Vazão - Diferença



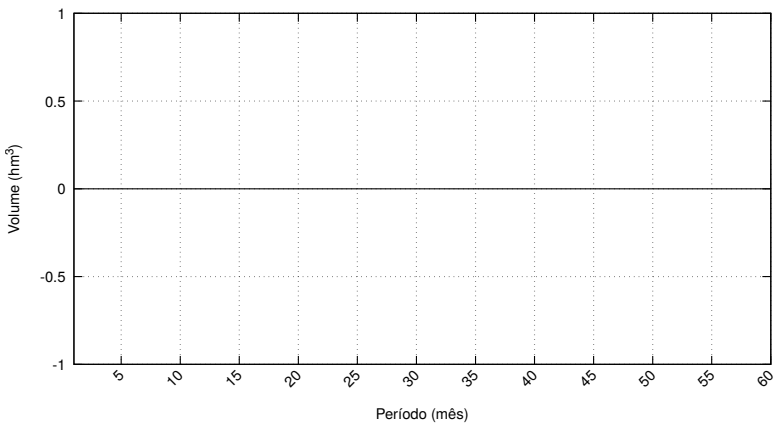
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



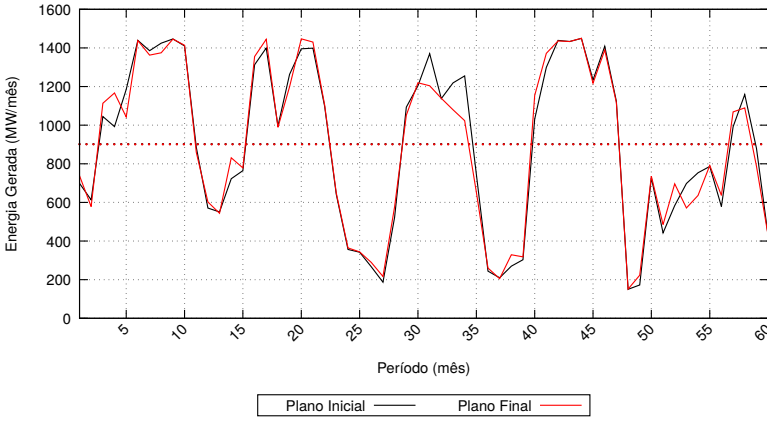
(a) CpMiPd

CpMiPd - Volume - Diferença



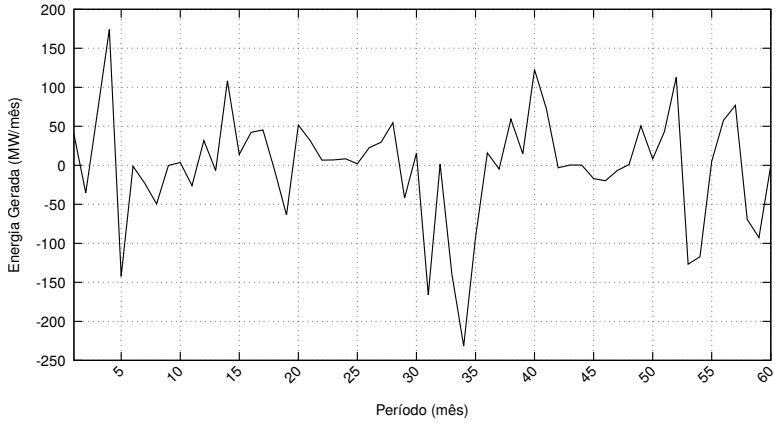
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

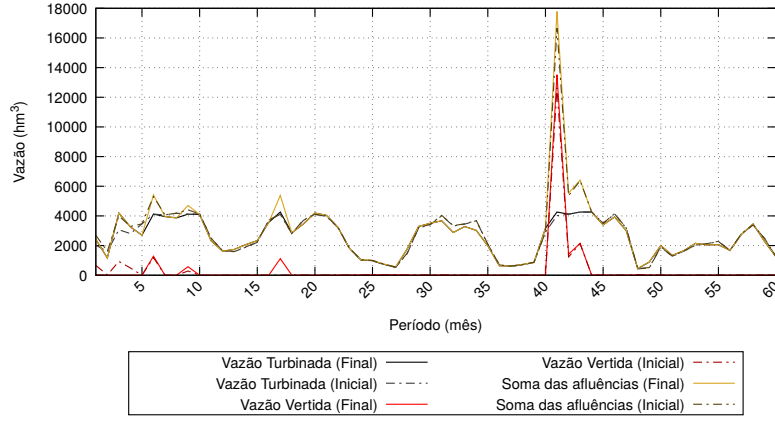
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

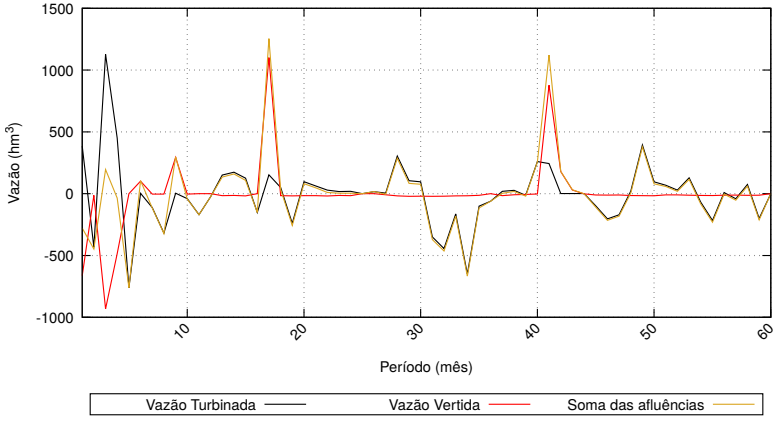
25.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



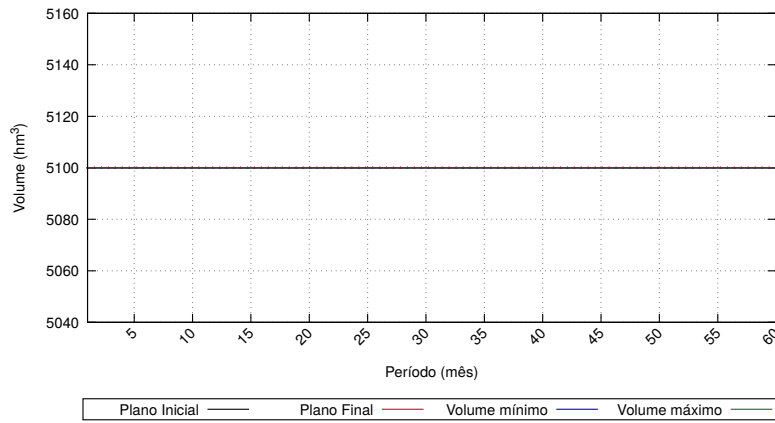
(a) CpMiPi

CpMiPi - Vazão - Diferença



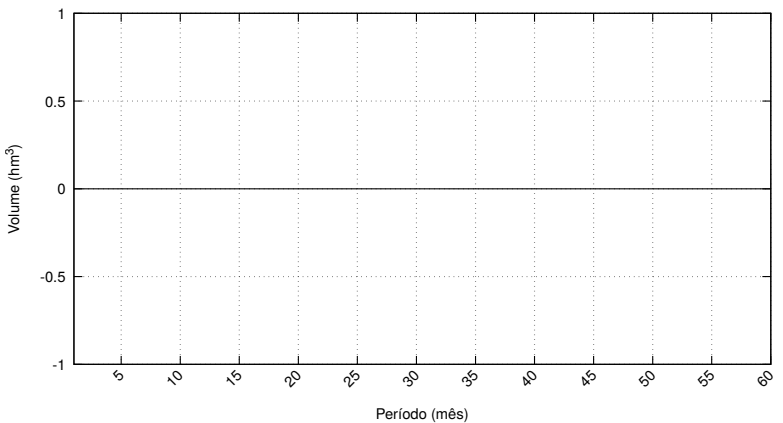
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



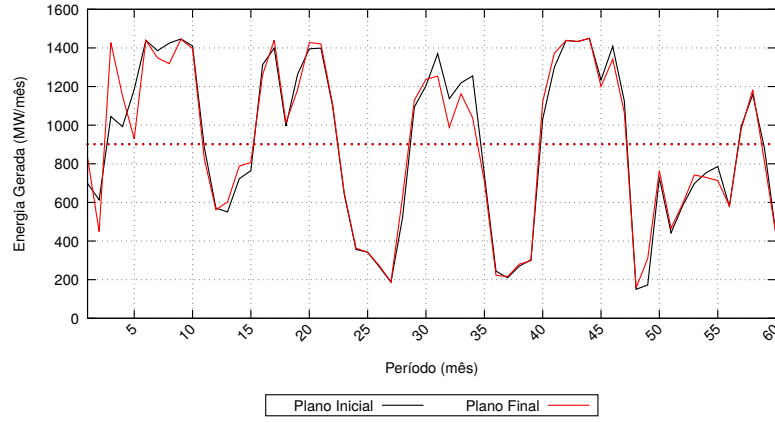
(a) CpMiPi

CpMiPi - Volume - Diferença



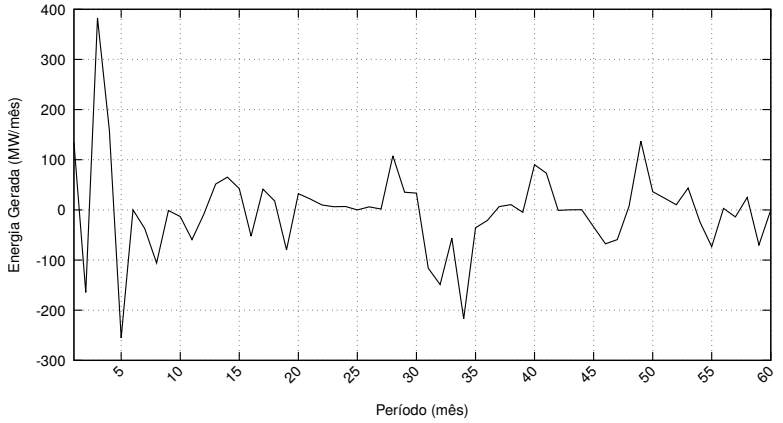
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



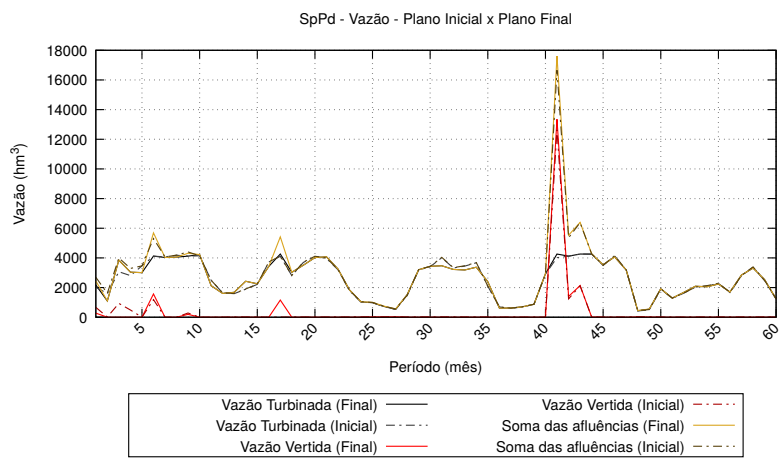
(a) CpMiPi

CpMiPi - Energia Gerada - Diferença

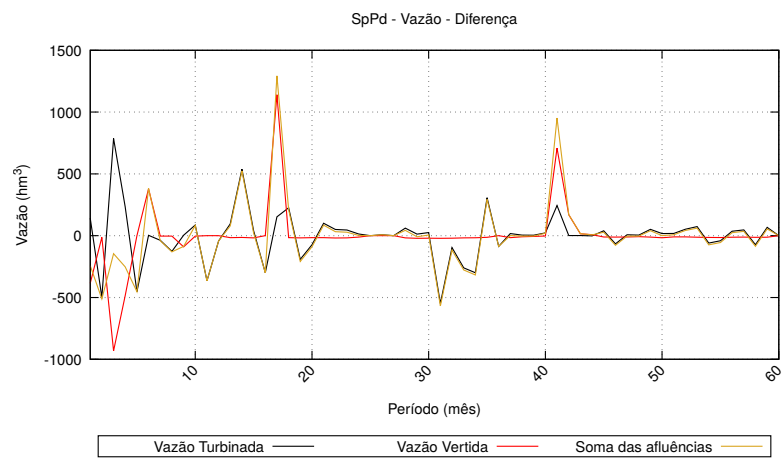


(b) CpMiPi

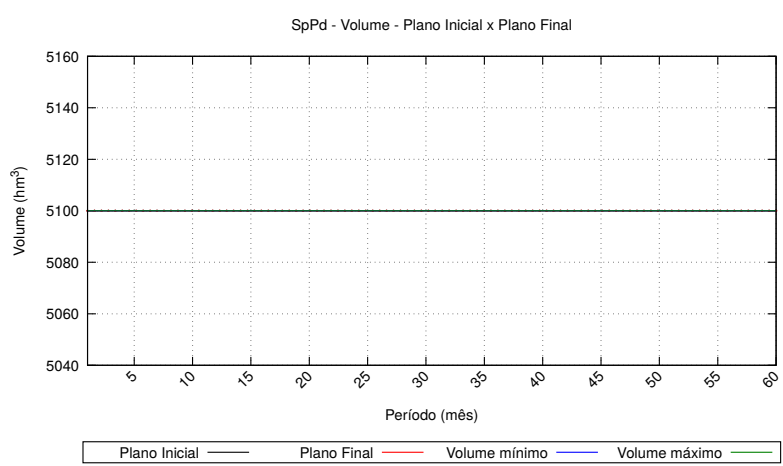
25.5 Resultados - SpPd



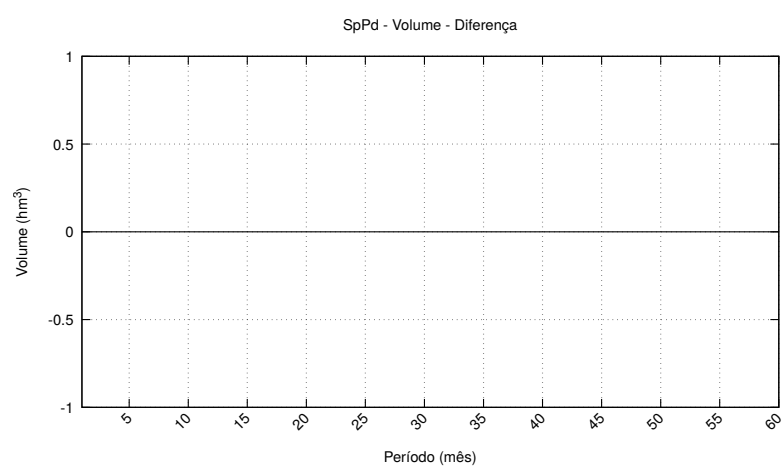
(a) SpPd



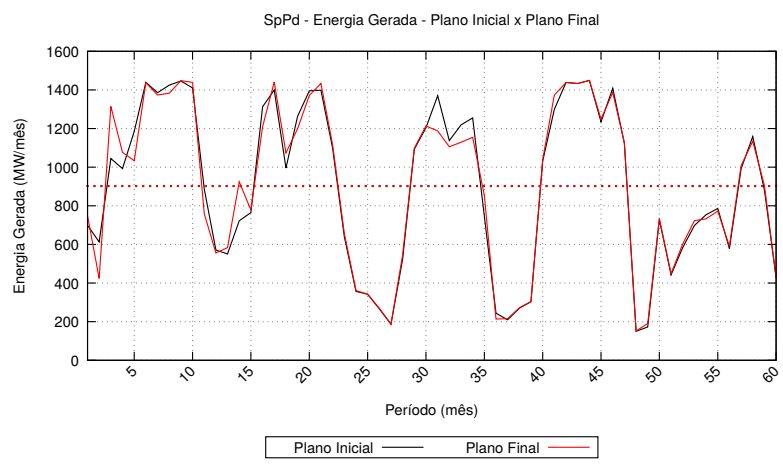
(b) SpPd



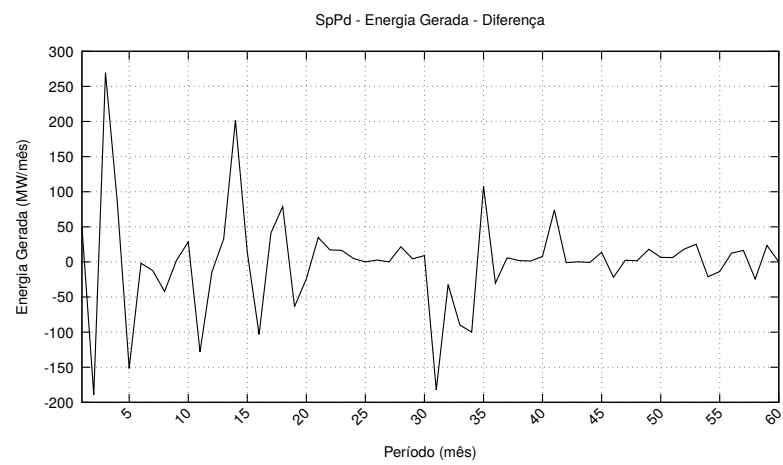
(a) SpPd



(b) SpPd

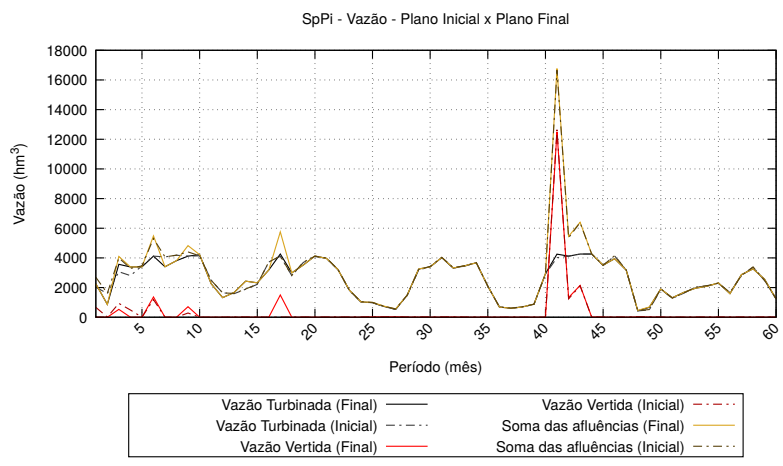


(a) SpPd

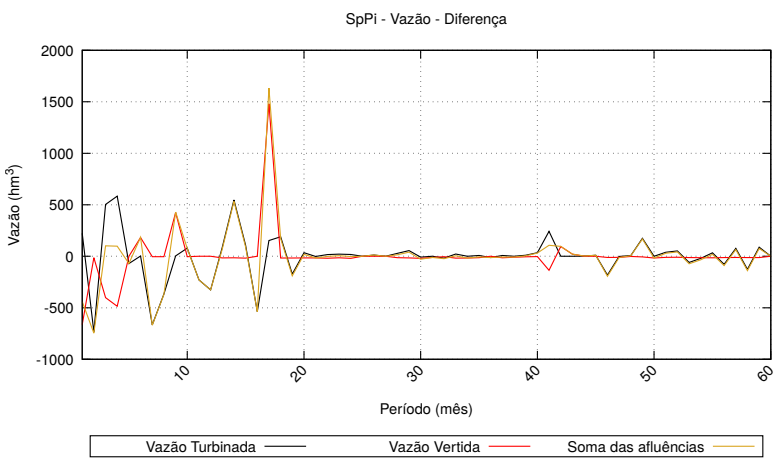


(b) SpPd

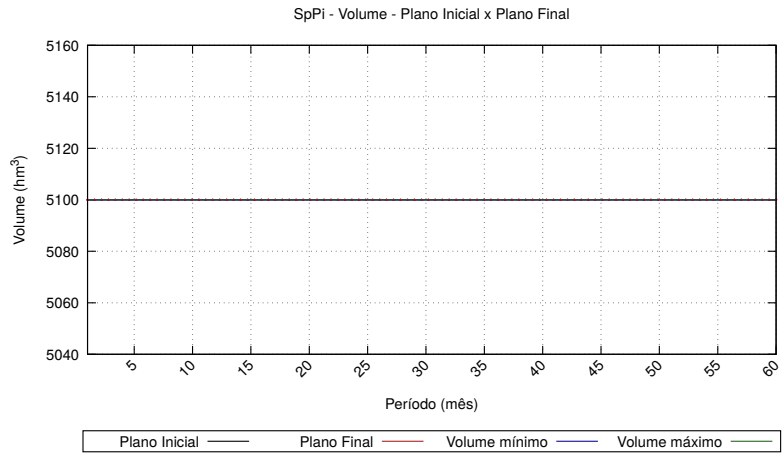
25.6 Resultados - SpPi



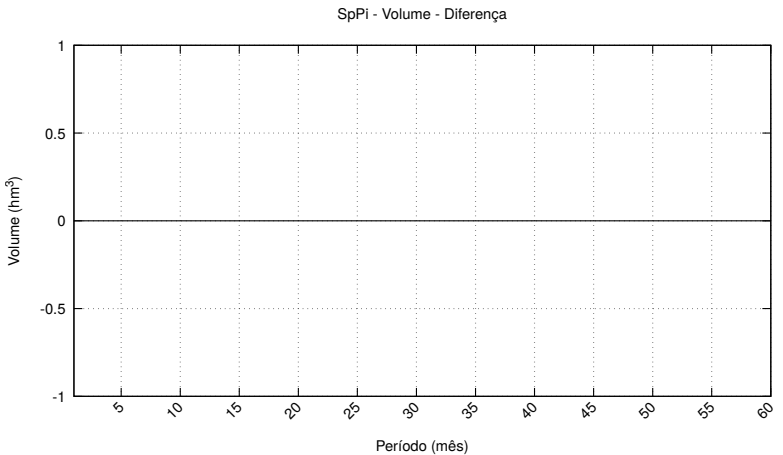
(a) SpPi



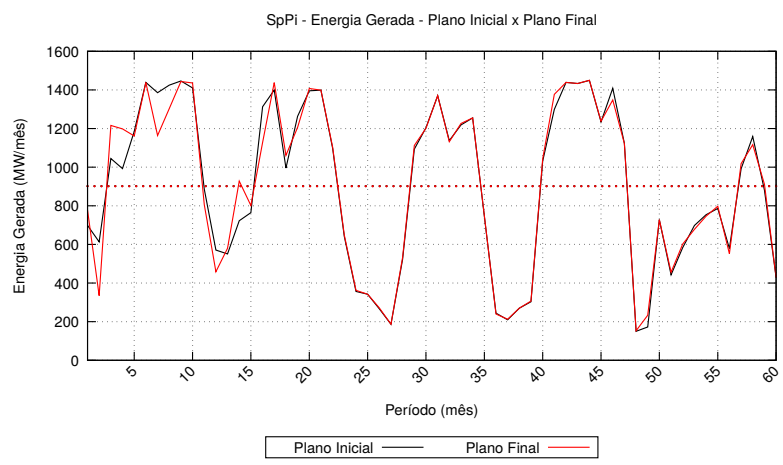
(b) SpPi



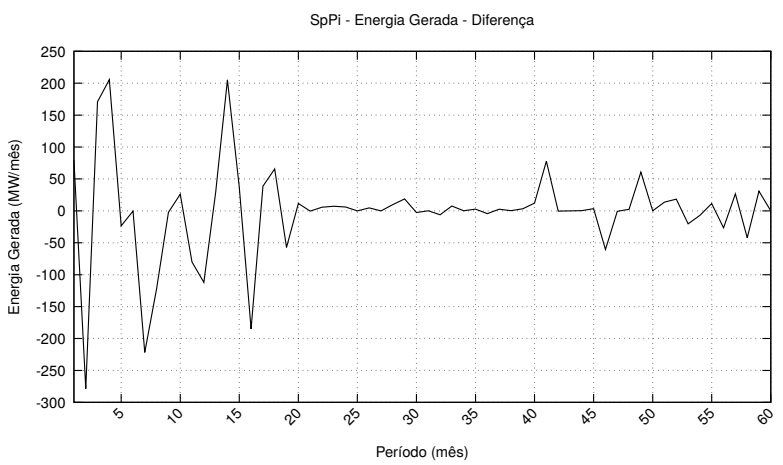
(a) SpPi



(b) SpPi



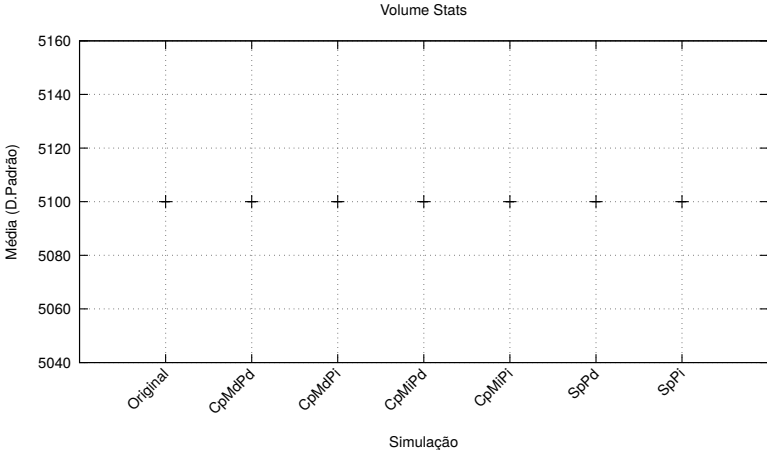
(a) SpPi



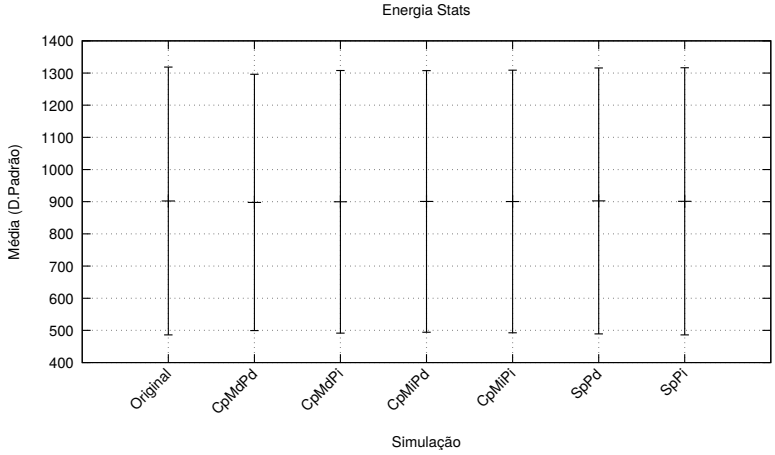
(b) SpPi

Tabela 30: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	5100.00000	0.00000	902.26759	416.19138
CpMdPd	5100.00000	0.00000	897.82066	398.43016
CpMdPi	5100.00000	0.00000	899.67098	408.16445
CpMiPd	5100.00000	0.00000	900.86927	406.75242
CpMiPi	5100.00000	0.00000	900.63181	408.18238
SpPd	5100.00000	0.00000	902.41305	413.40701
SpPi	5100.00000	0.00000	901.30264	415.17829

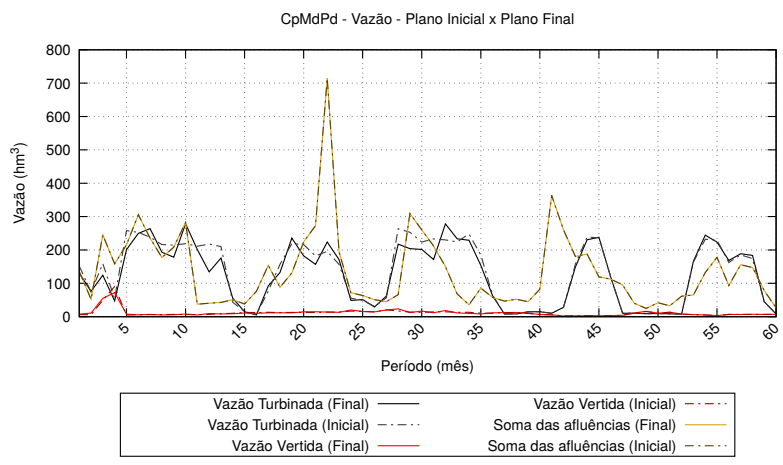


(a) Volume

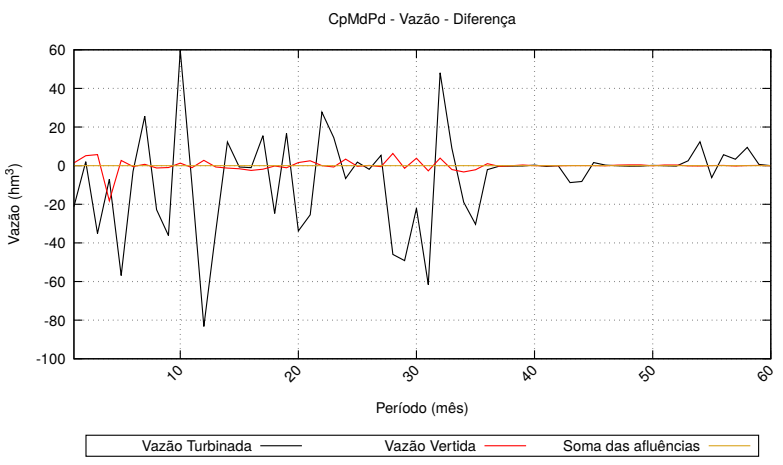


(b) Energia

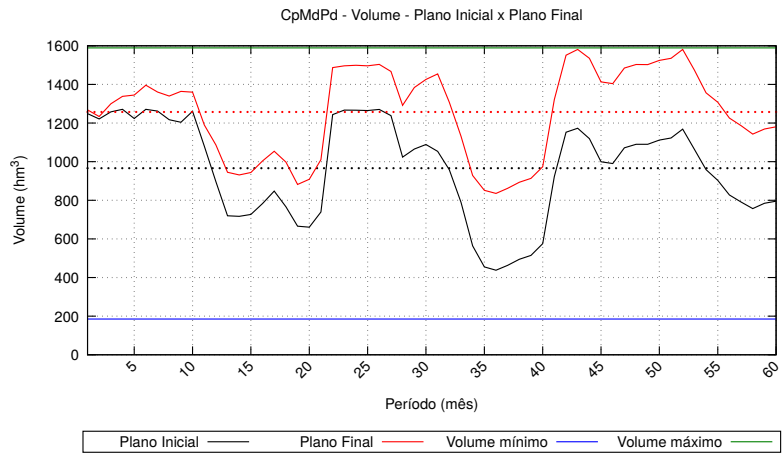
26.1 Resultados - CpMdPd



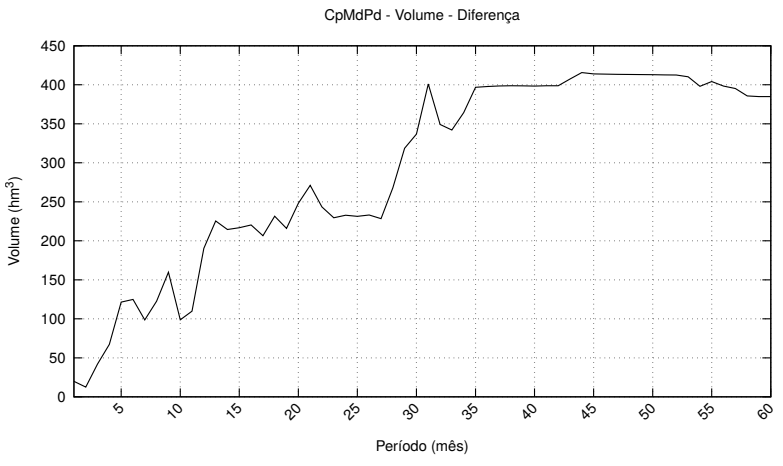
(a) CpMdPd



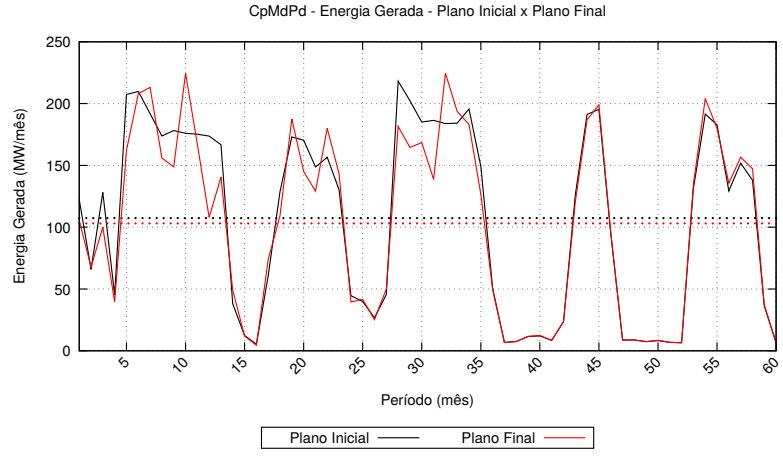
(b) CpMdPd



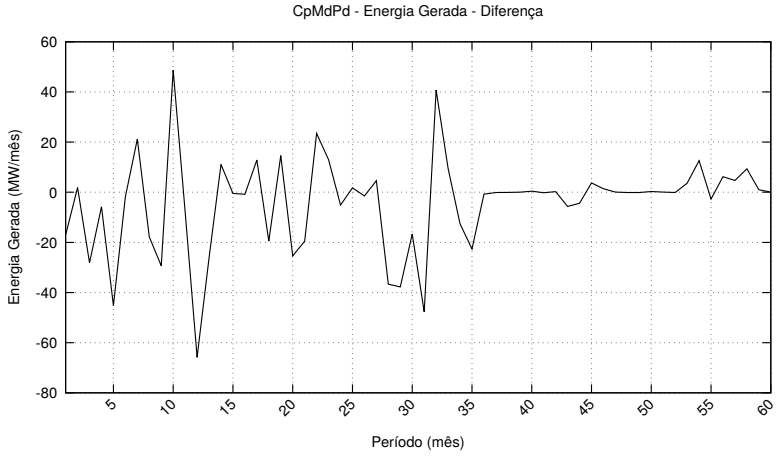
(a) CpMdPd



(b) CpMdPd

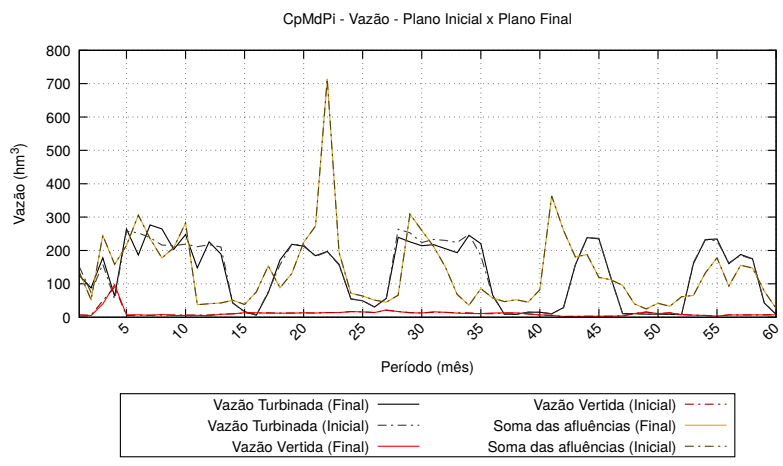


(a) CpMdPd

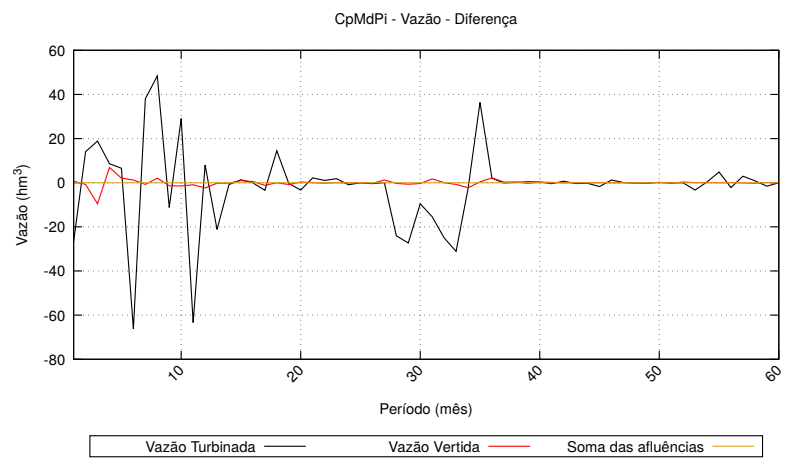


(b) CpMdPd

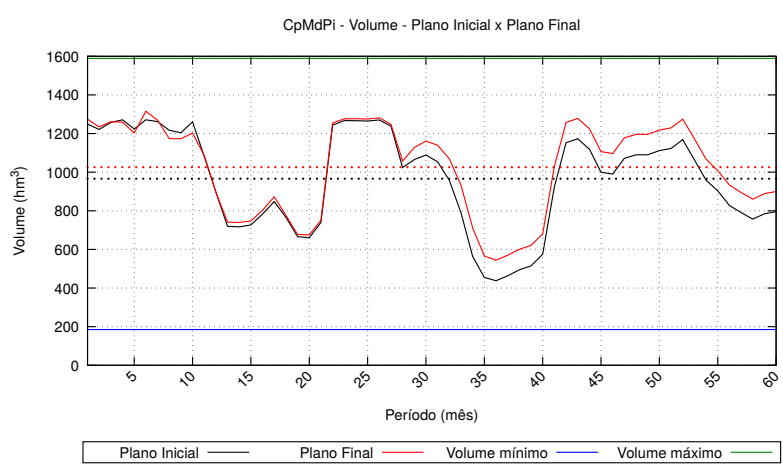
26.2 Resultados - CpMdPi



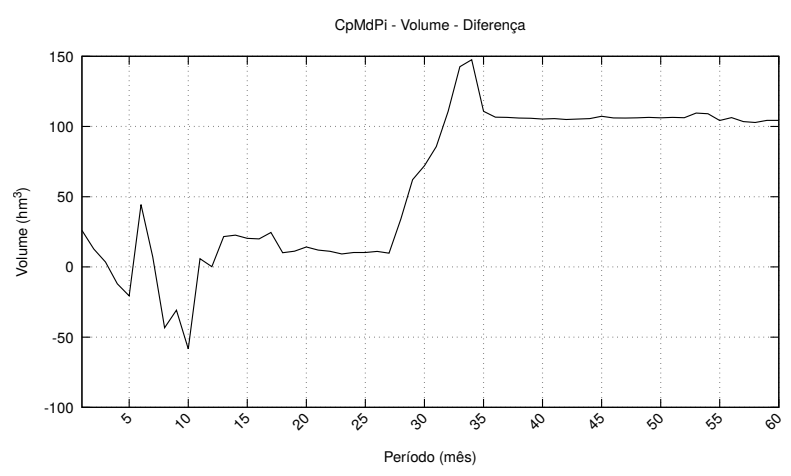
(a) CpMdPi



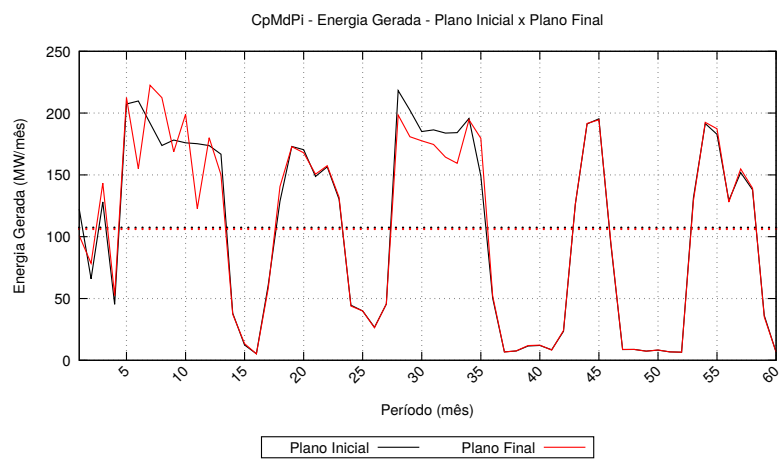
(b) CpMdPi



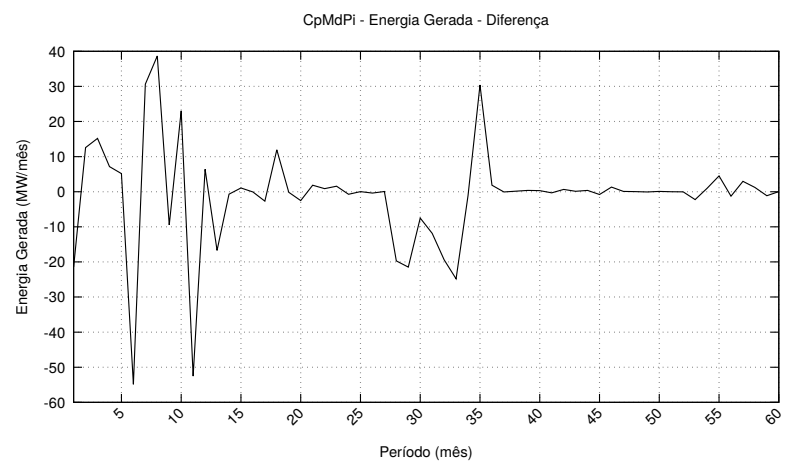
(a) CpMdPi



(b) CpMdPi

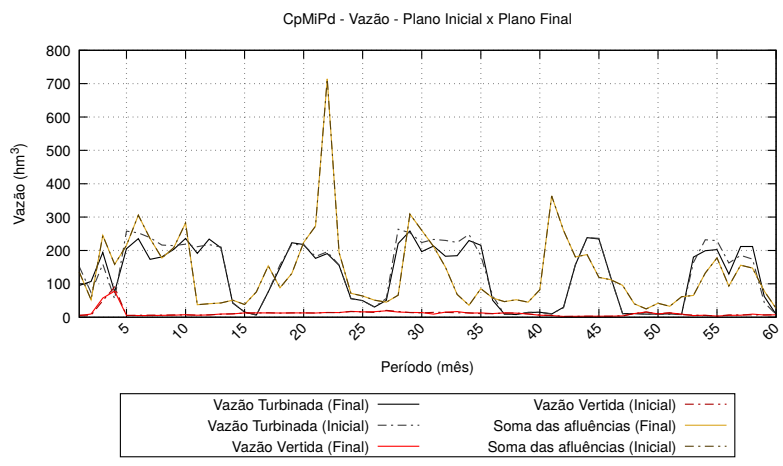


(a) CpMdPi

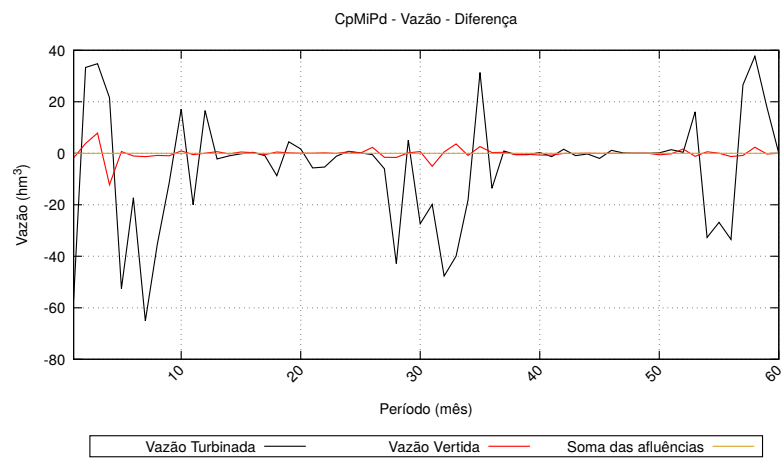


(b) CpMdPi

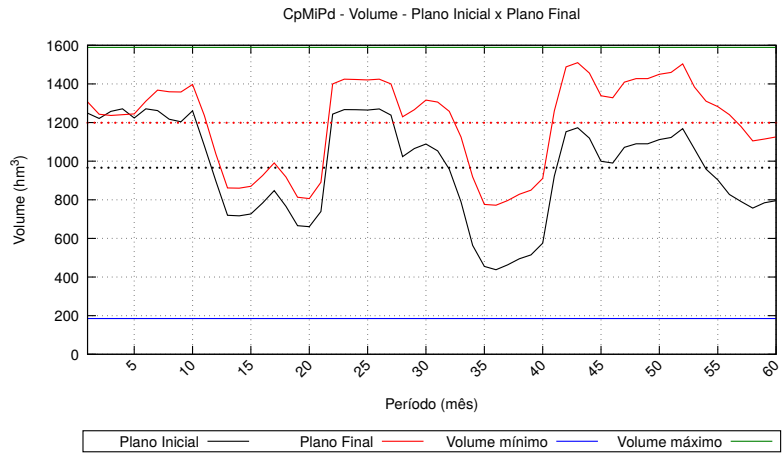
26.3 Resultados - CpMiPd



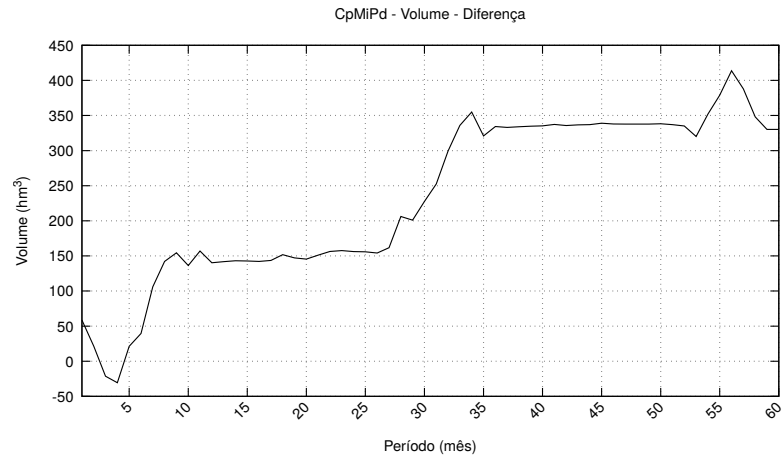
(a) CpMiPd



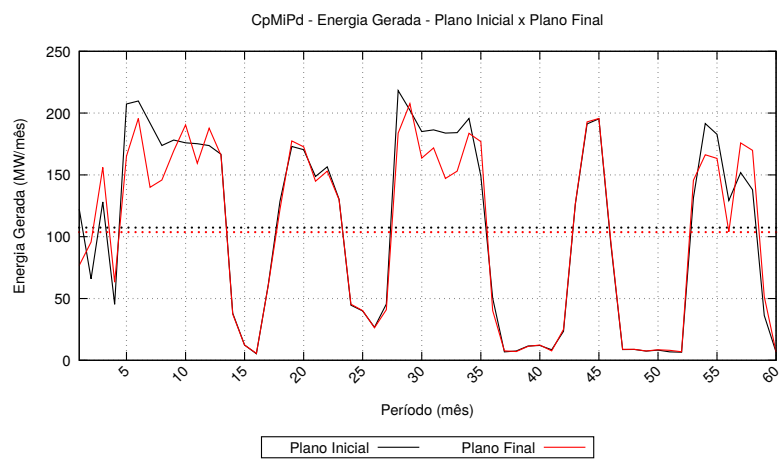
(b) CpMiPd



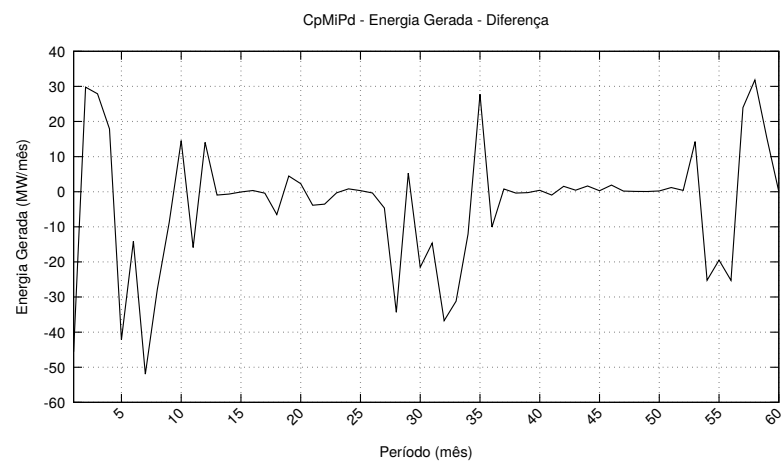
(a) CpMiPd



(b) CpMiPd



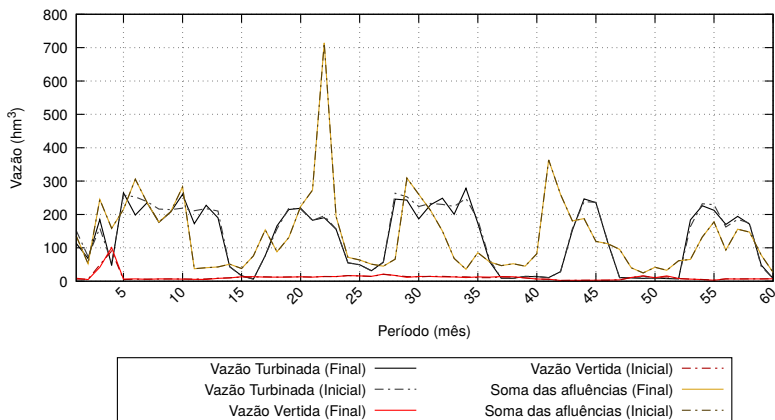
(a) CpMiPd



(b) CpMiPd

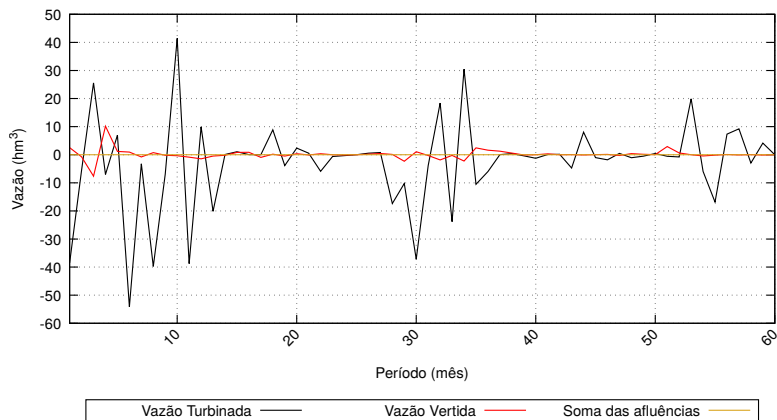
26.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



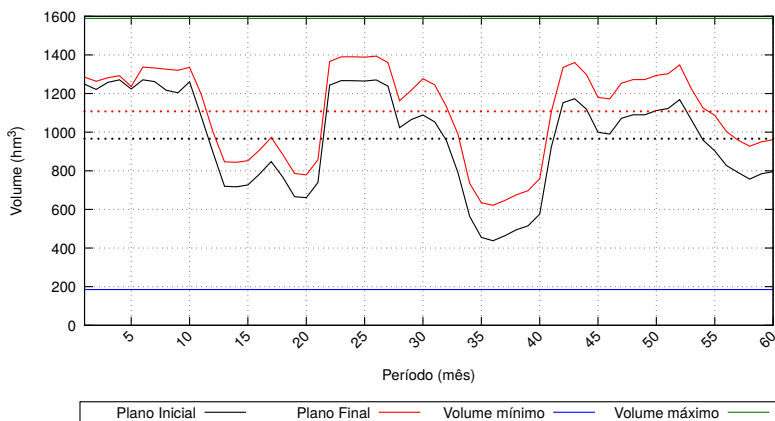
(a) CpMiPi

CpMiPi - Vazão - Diferença



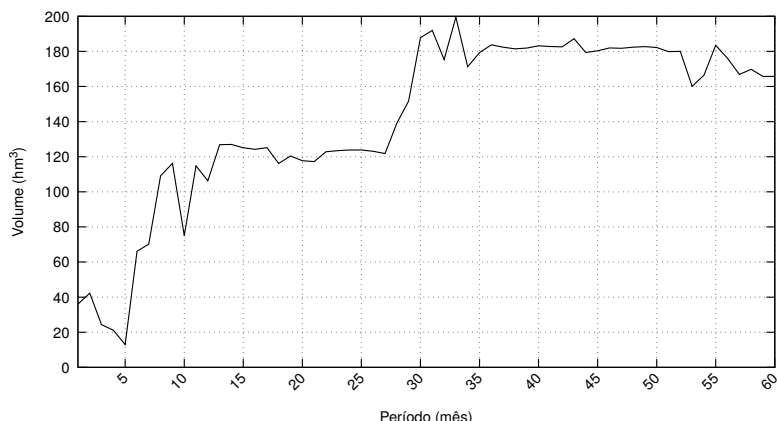
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



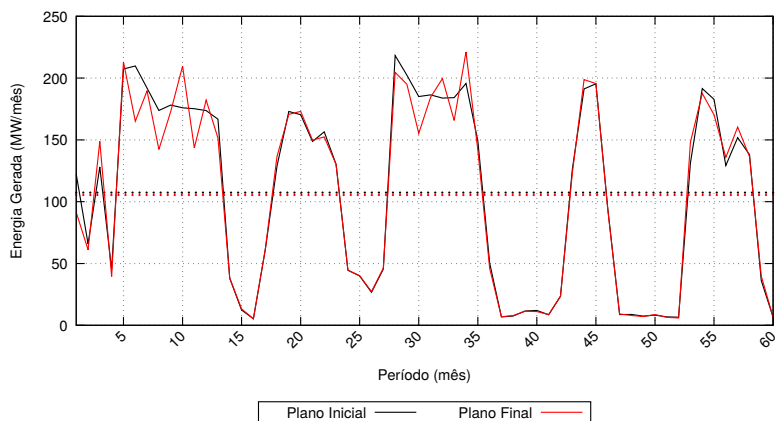
(a) CpMiPi

CpMiPi - Volume - Diferença



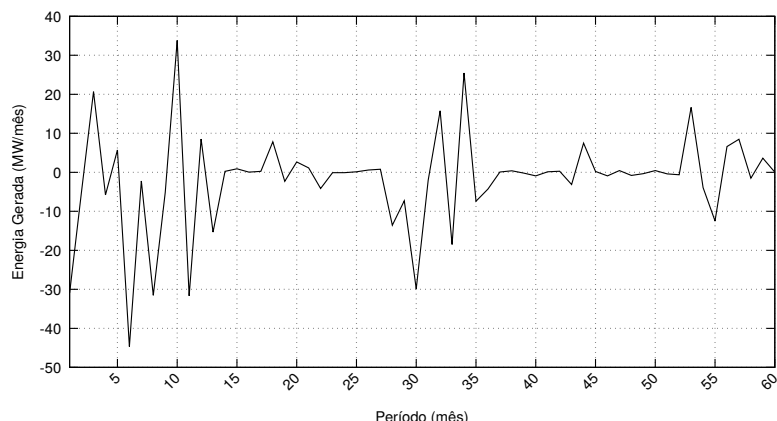
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

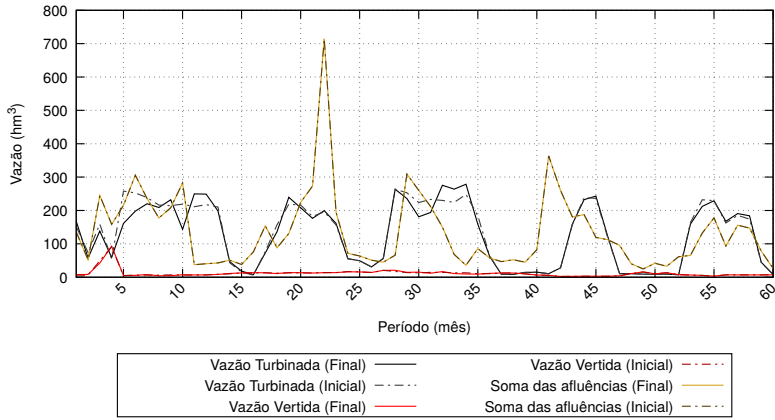
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

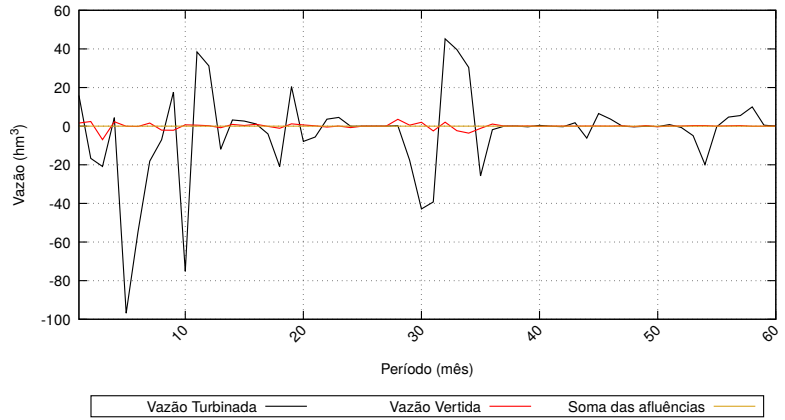
26.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



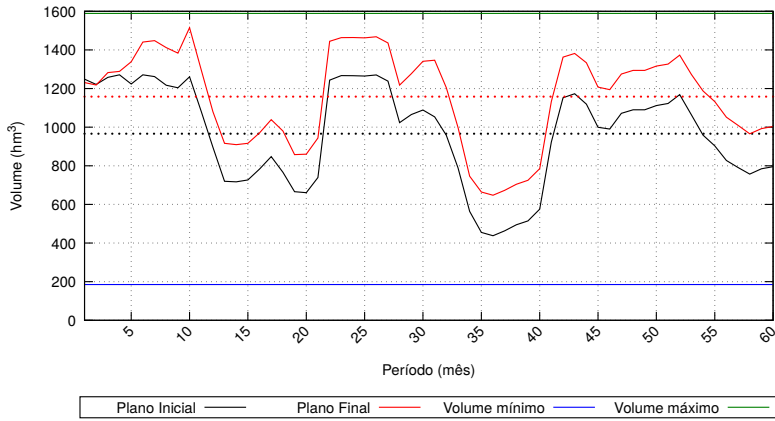
(a) SpPd

SpPd - Vazão - Diferença



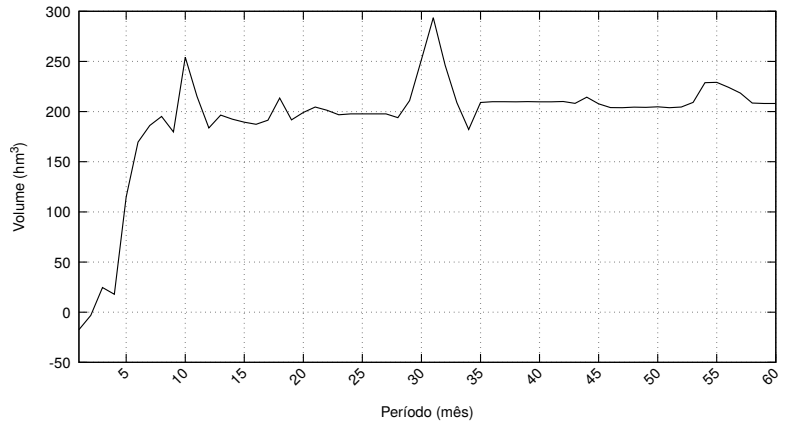
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



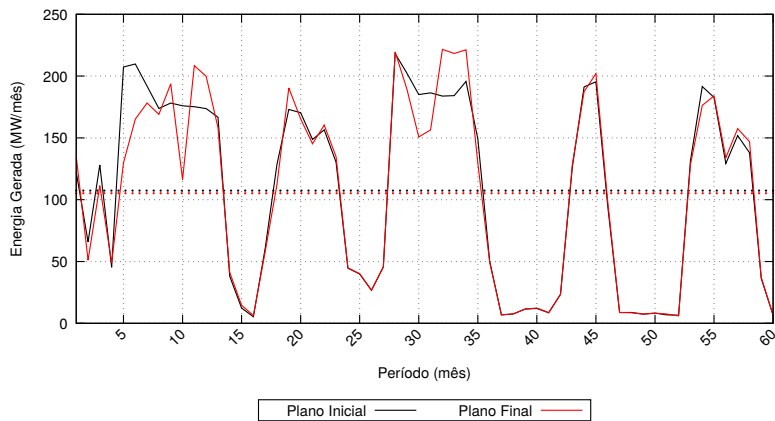
(a) SpPd

SpPd - Volume - Diferença



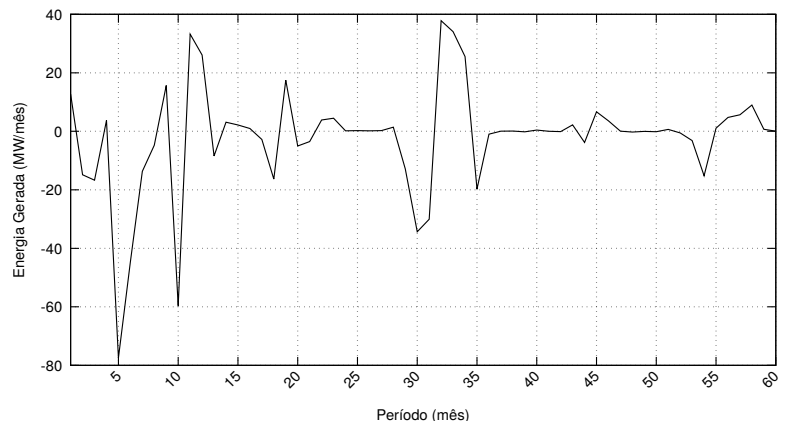
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

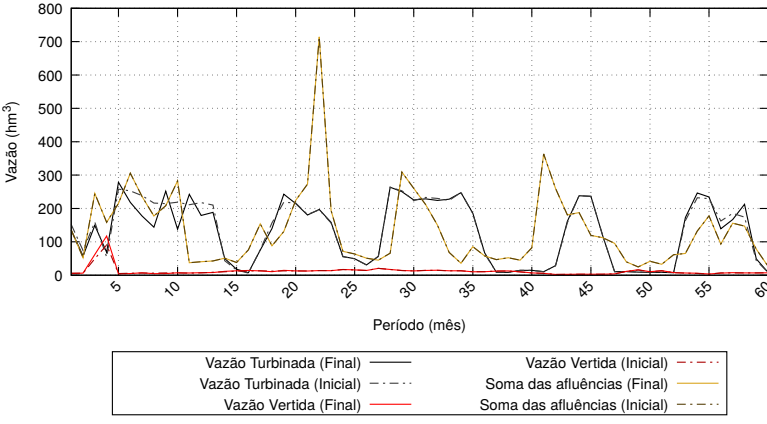
SpPd - Energia Gerada - Diferença



(b) SpPd

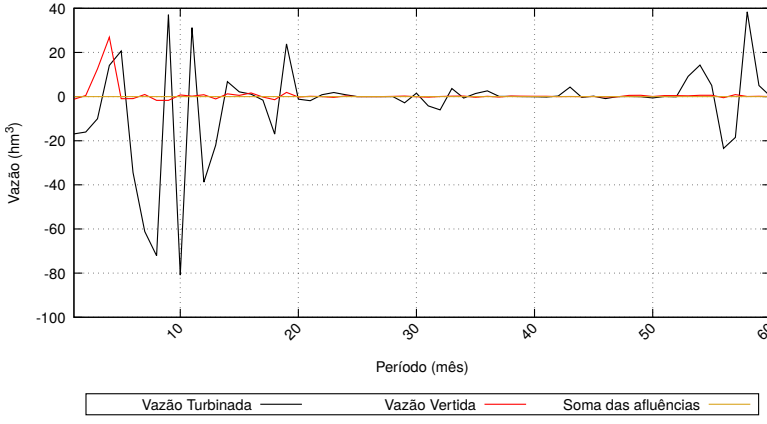
26.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



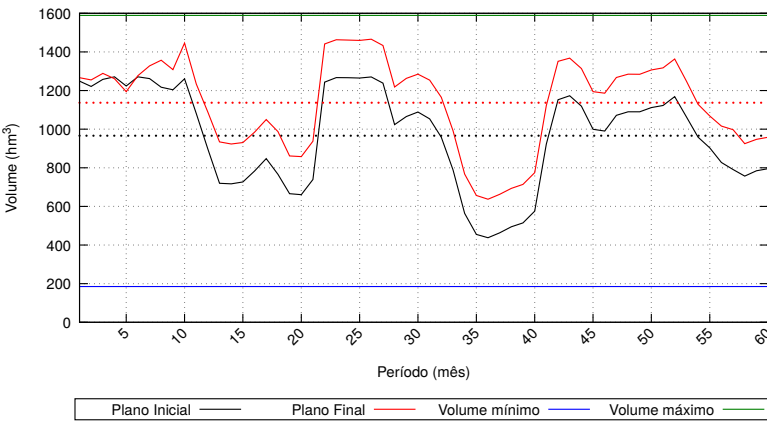
(a) SpPi

SpPi - Vazão - Diferença



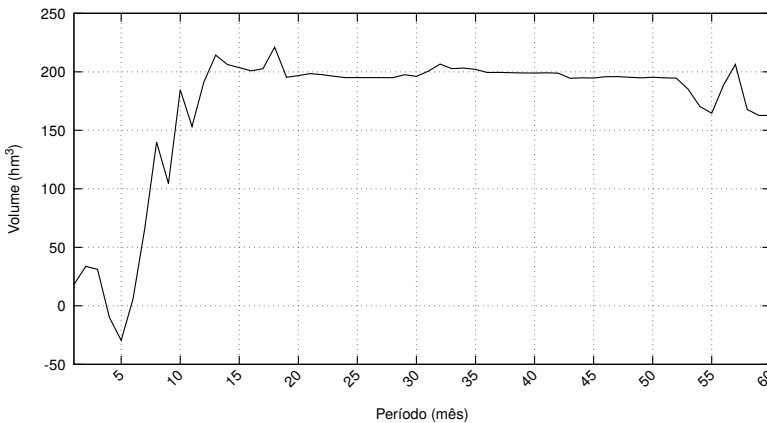
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



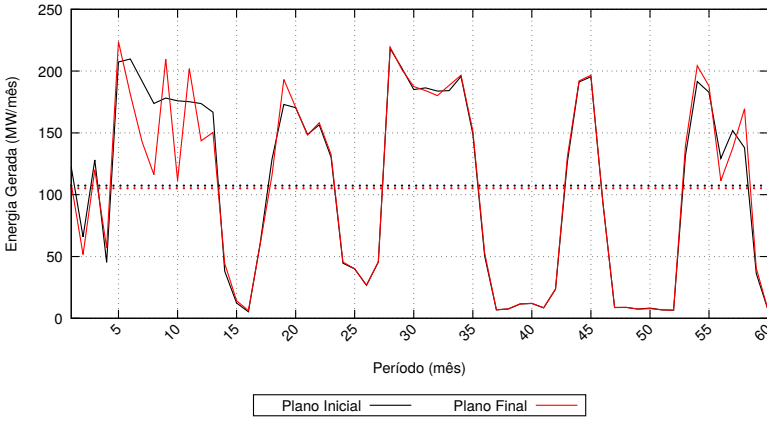
(a) SpPi

SpPi - Volume - Diferença



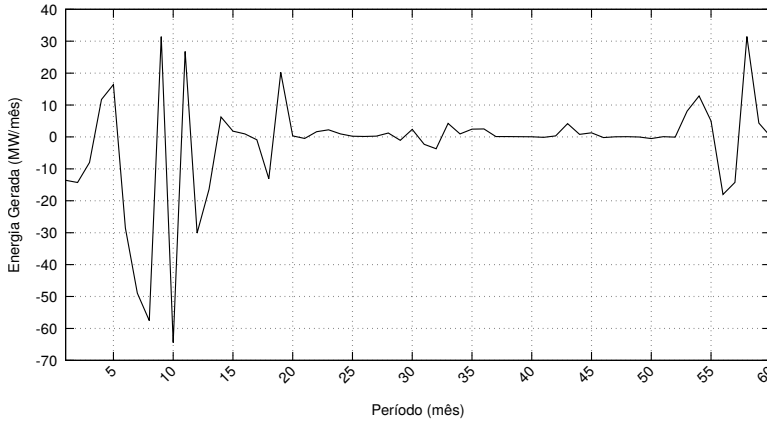
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

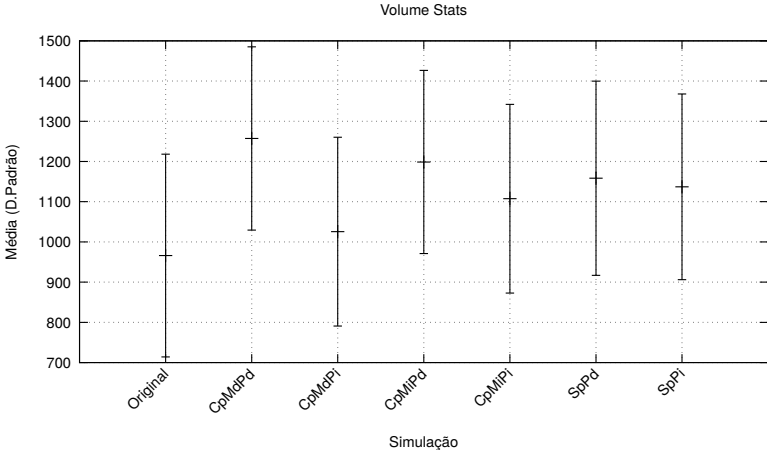
SpPi - Energia Gerada - Diferença



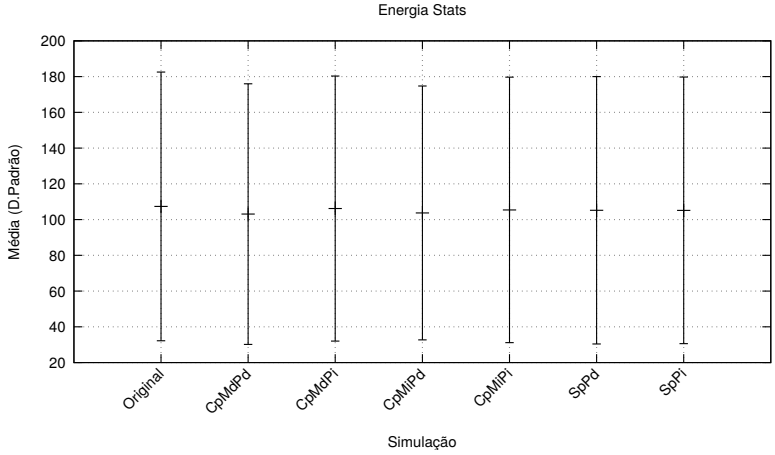
(b) SpPi

Tabela 31: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	966.12879	252.09905	107.37182	75.19729
CpMdPd	1257.35238	227.84513	103.06544	72.93331
CpMdPi	1025.56373	234.68045	106.16354	74.12389
CpMiPd	1198.69795	227.73871	103.71030	71.00789
CpMiPi	1107.45242	234.61006	105.41172	74.27212
SpPd	1158.38948	241.41215	105.18794	74.79617
SpPi	1137.10456	230.85211	105.16695	74.59239

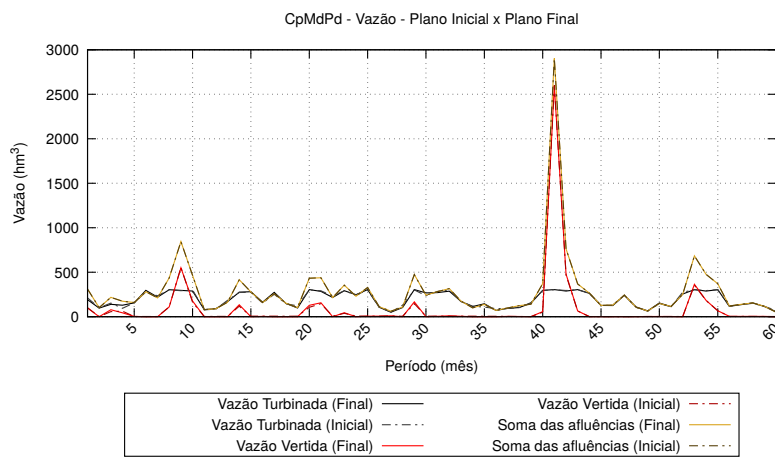


(a) Volume

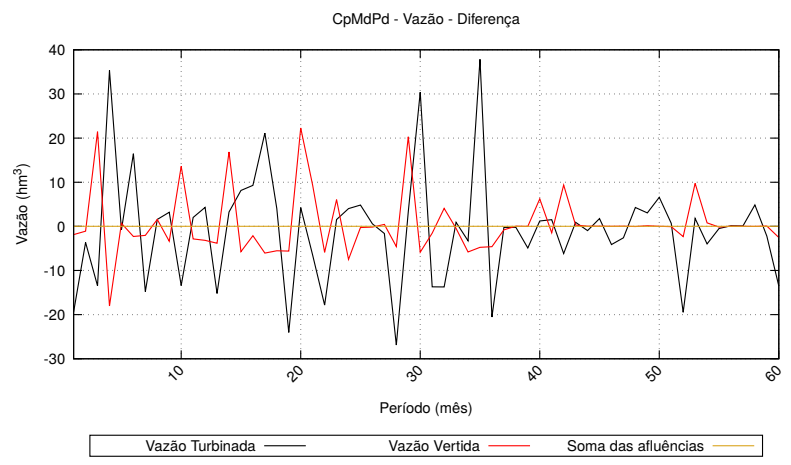


(b) Energia

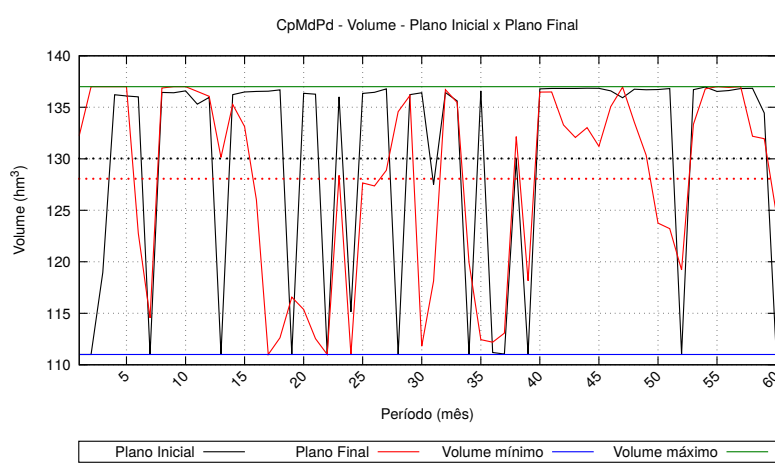
27.1 Resultados - CpMdPd



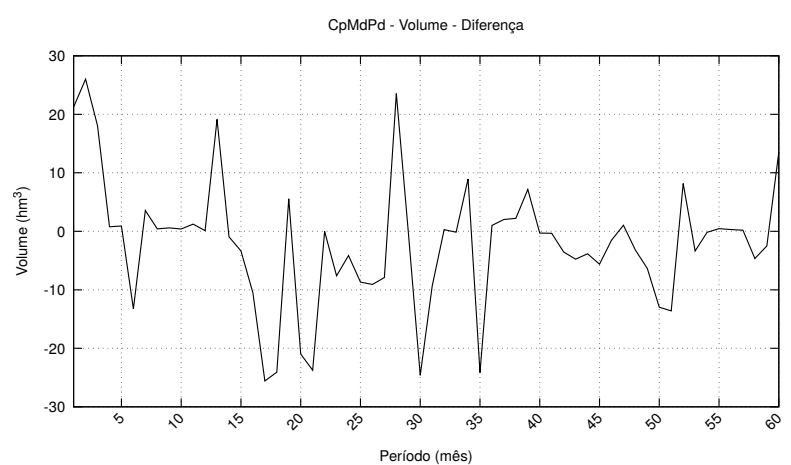
(a) CpMdPd



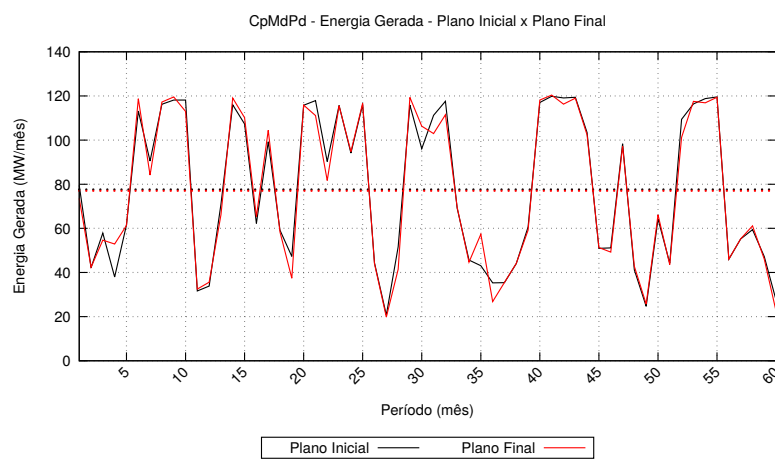
(b) CpMdPd



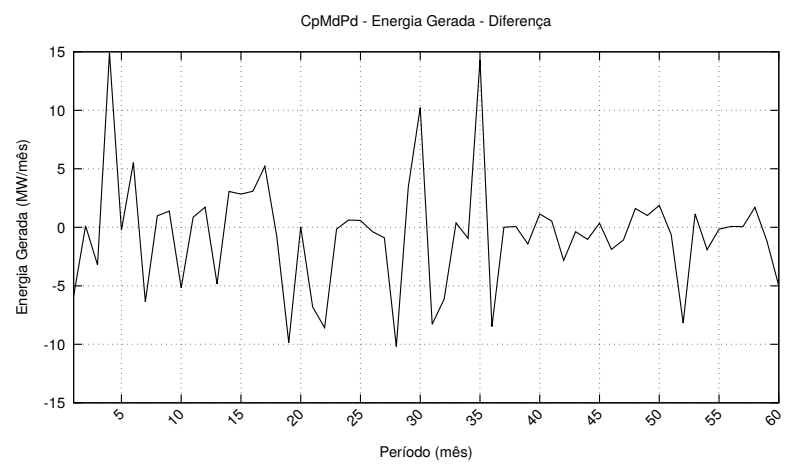
(a) CpMdPd



(b) CpMdPd



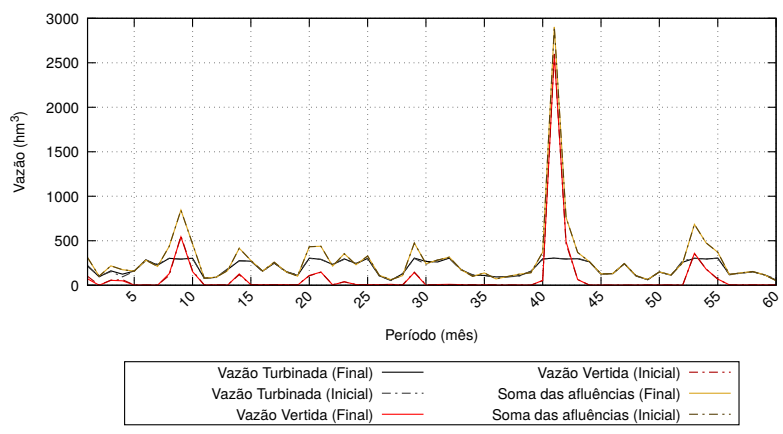
(a) CpMdPd



(b) CpMdPd

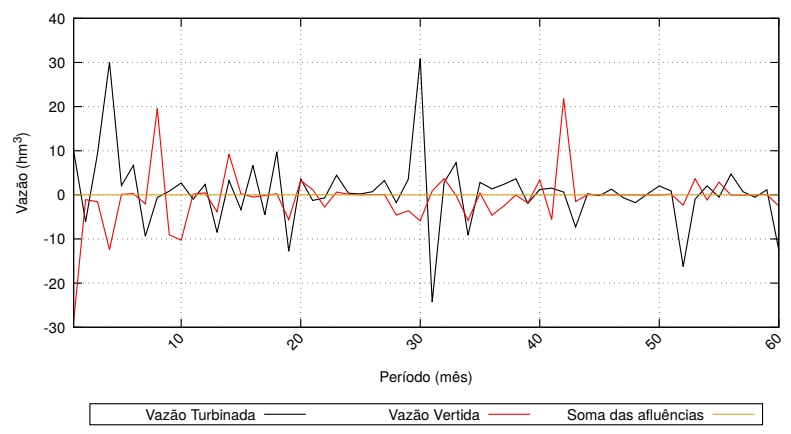
27.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



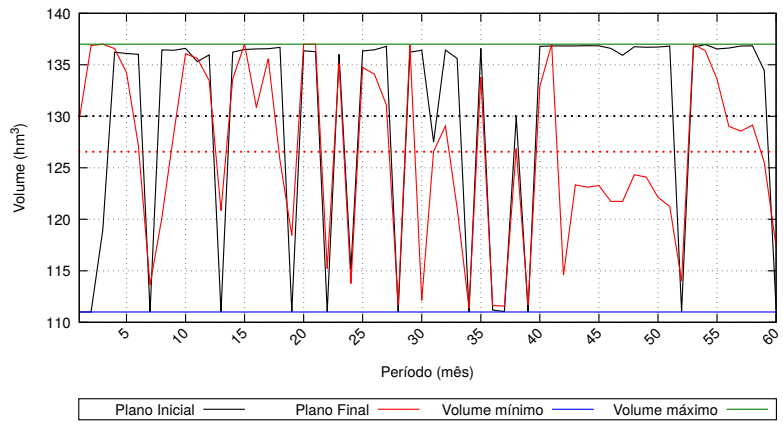
(a) CpMdPi

CpMdPi - Vazão - Diferença



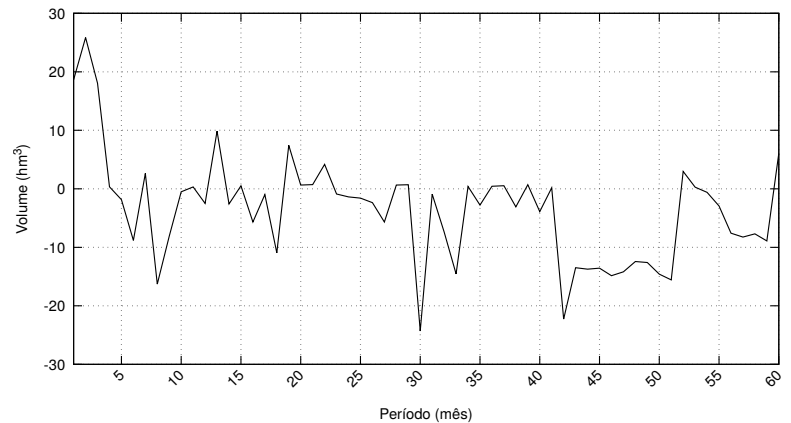
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



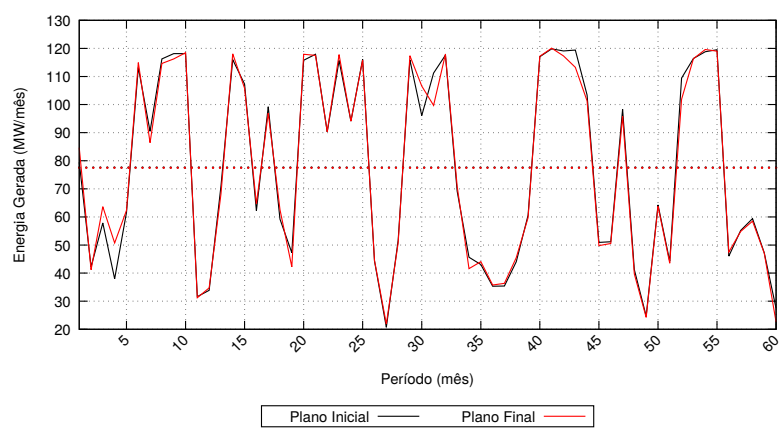
(a) CpMdPi

CpMdPi - Volume - Diferença



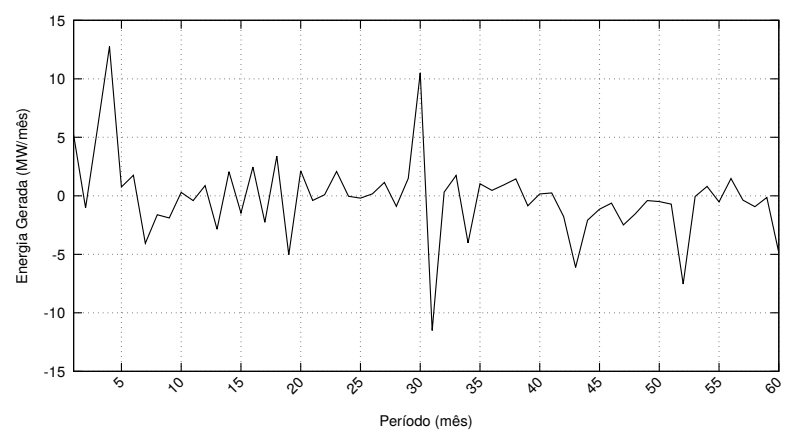
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

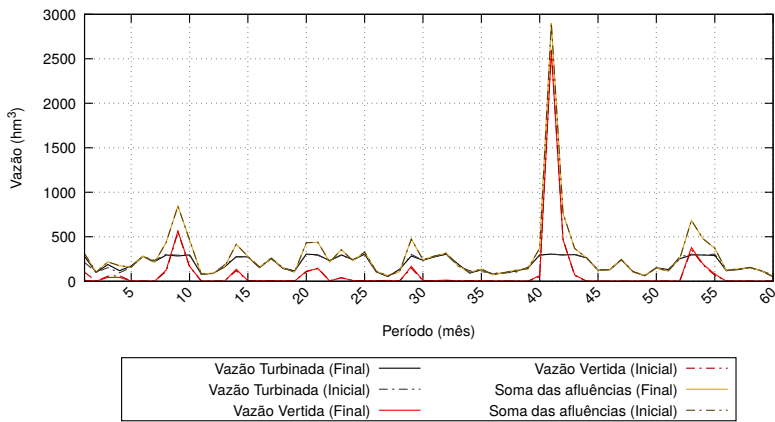
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

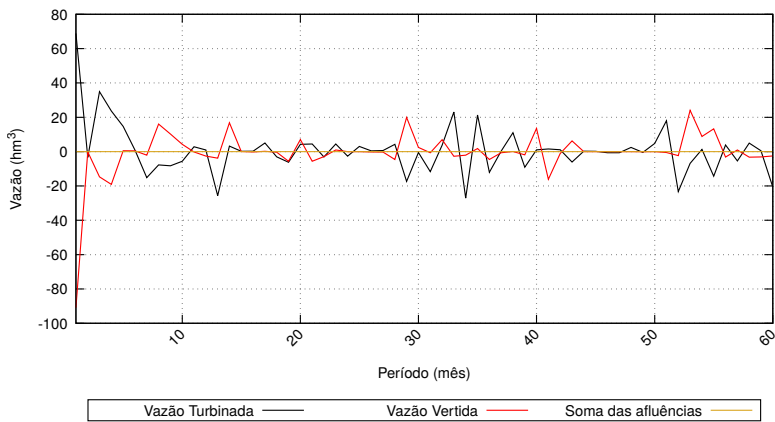
27.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



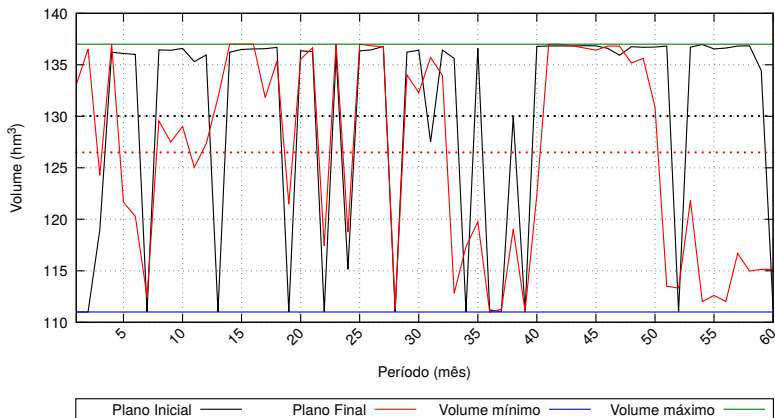
(a) CpMiPd

CpMiPd - Vazão - Diferença



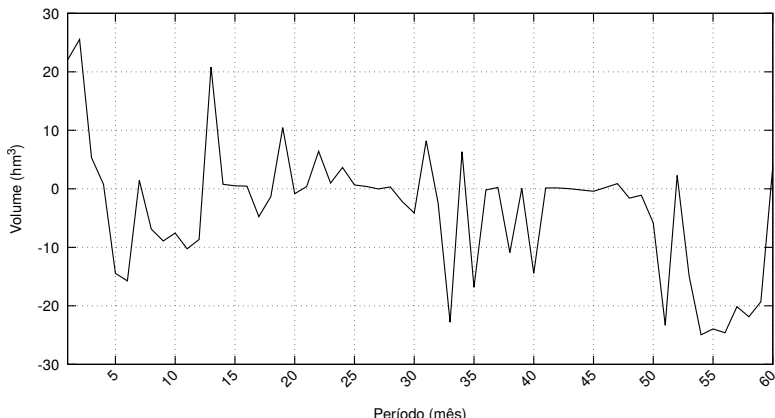
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



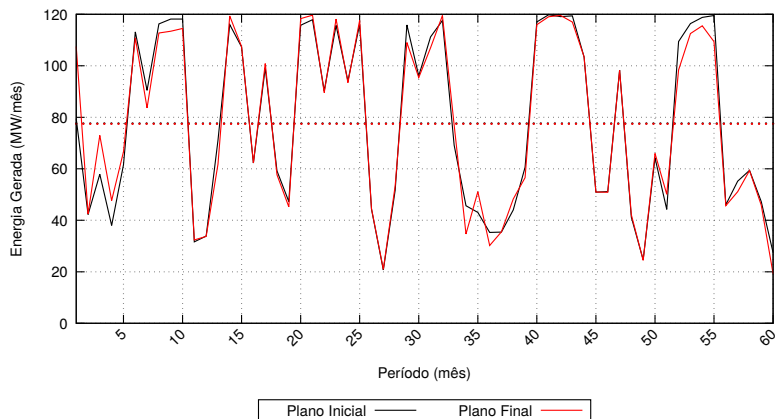
(a) CpMiPd

CpMiPd - Volume - Diferença



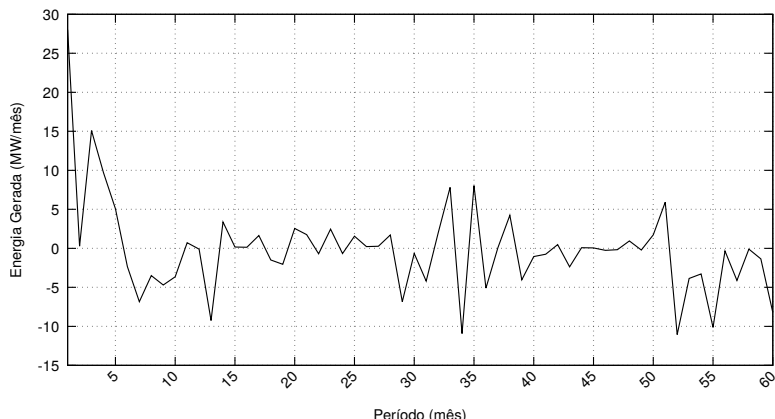
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

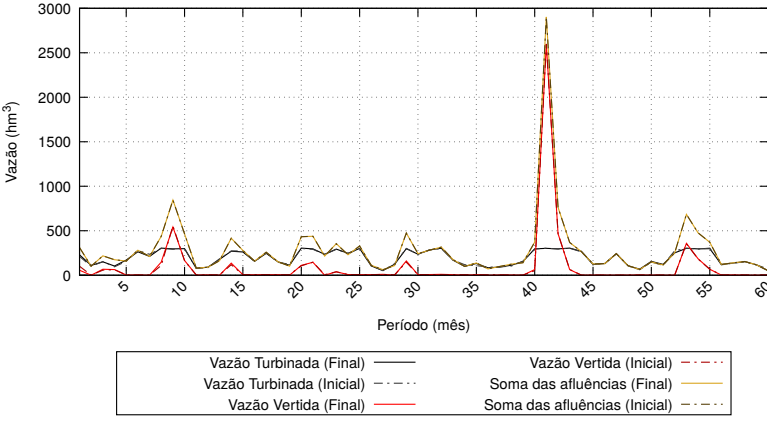
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

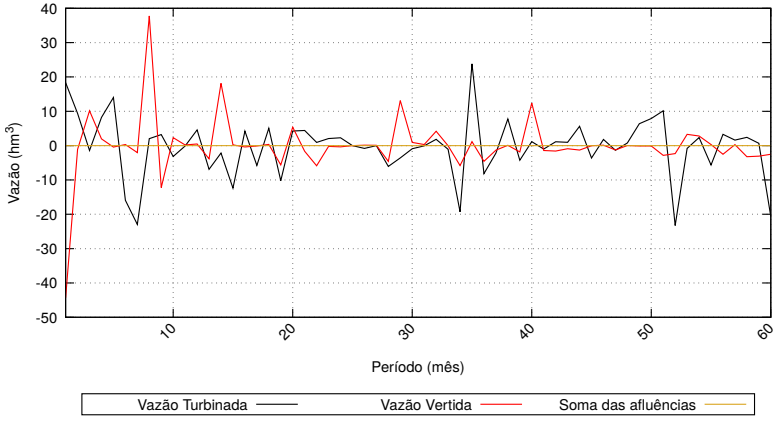
27.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



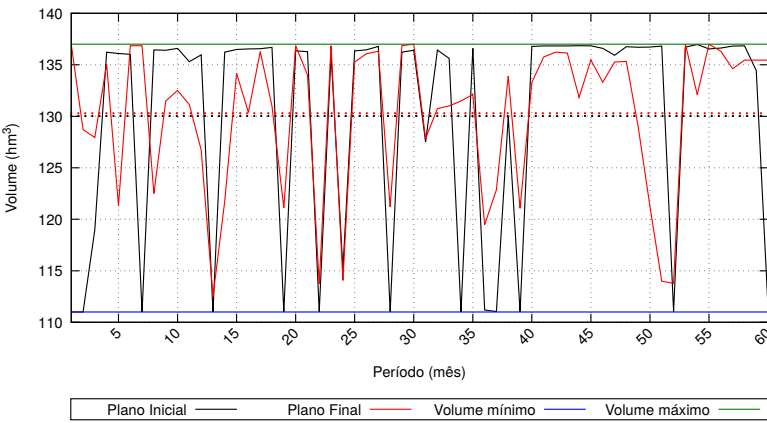
(a) CpMiPi

CpMiPi - Vazão - Diferença



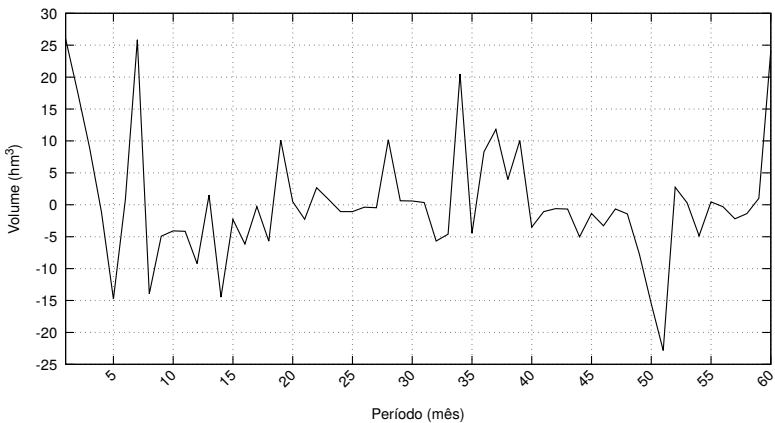
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



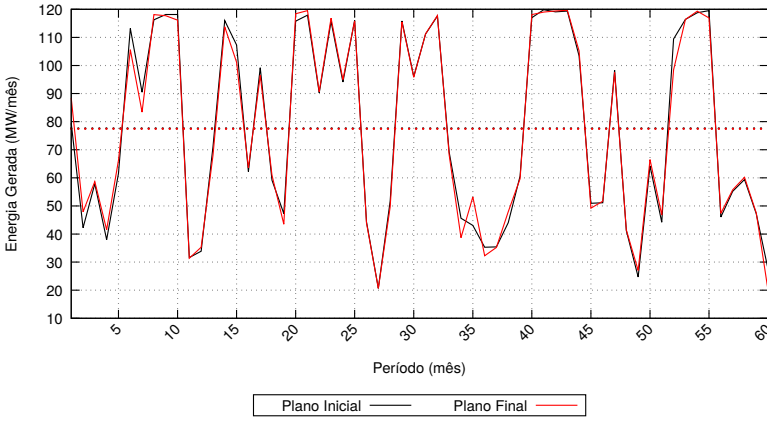
(a) CpMiPi

CpMiPi - Volume - Diferença



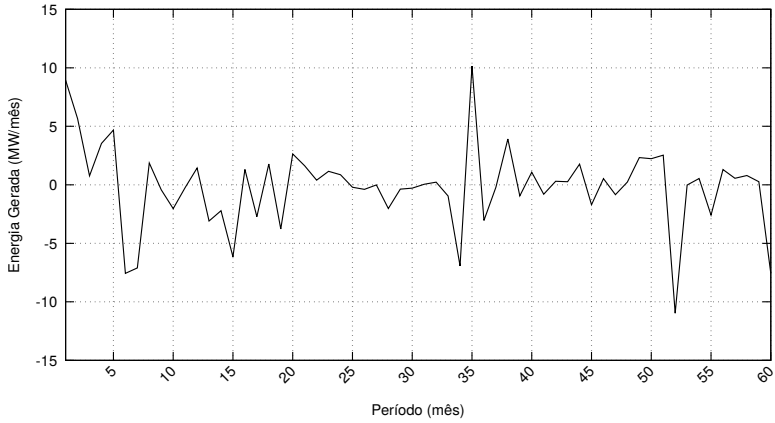
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

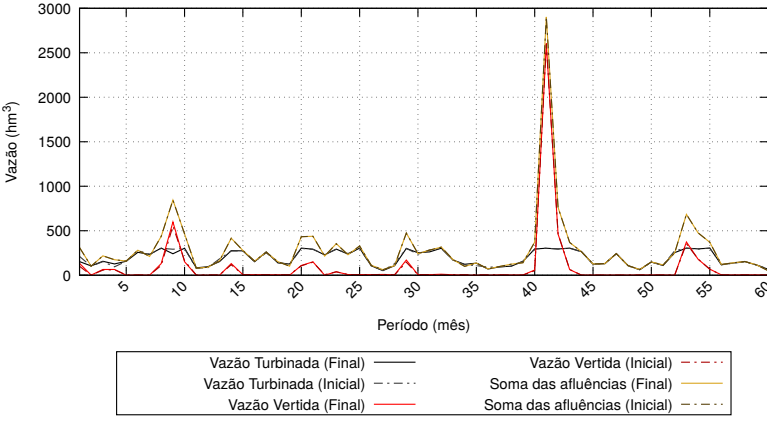
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

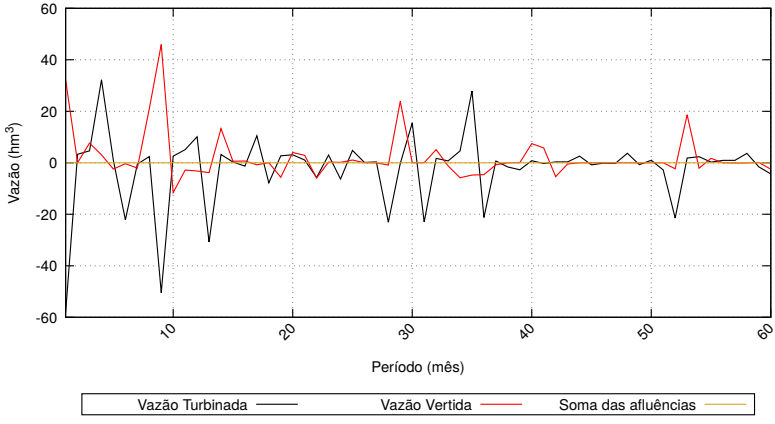
27.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



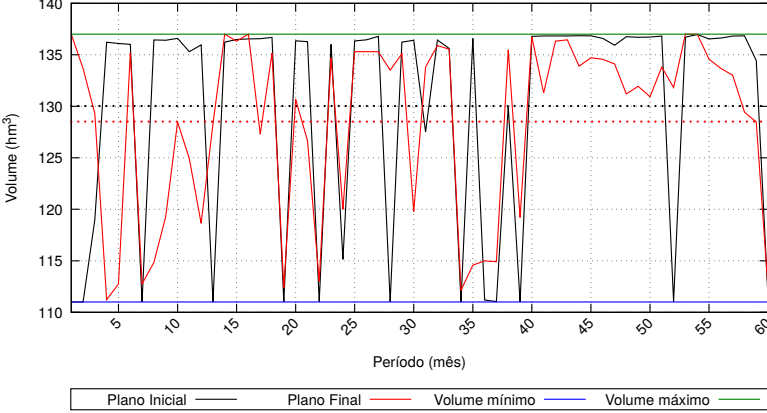
(a) SpPd

SpPd - Vazão - Diferença



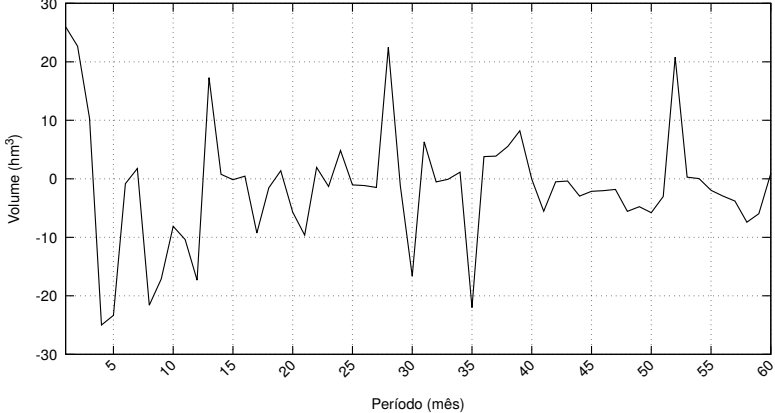
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



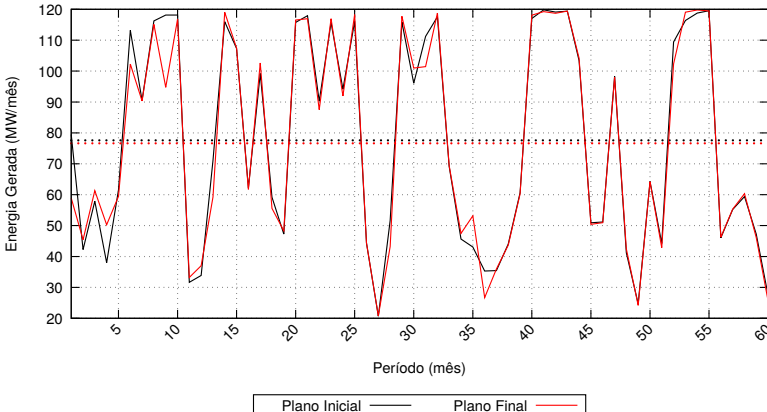
(a) SpPd

SpPd - Volume - Diferença



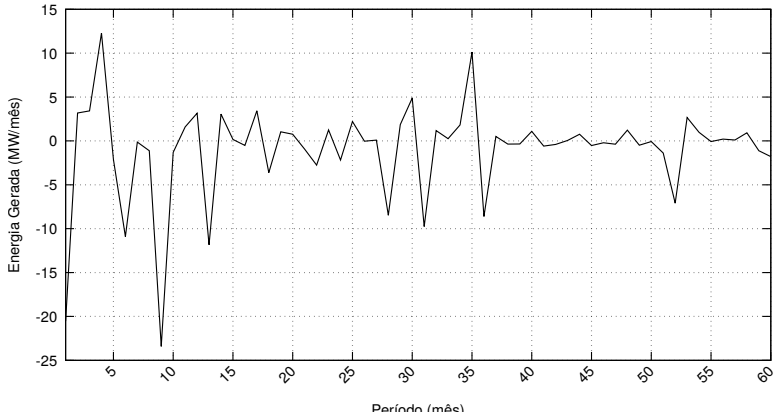
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

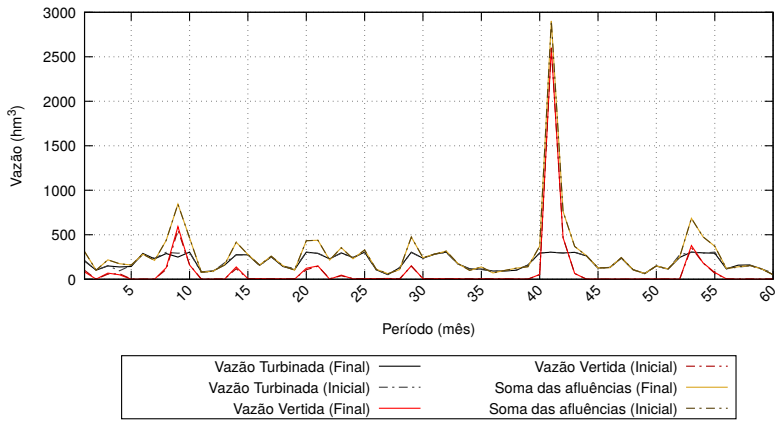
SpPd - Energia Gerada - Diferença



(b) SpPd

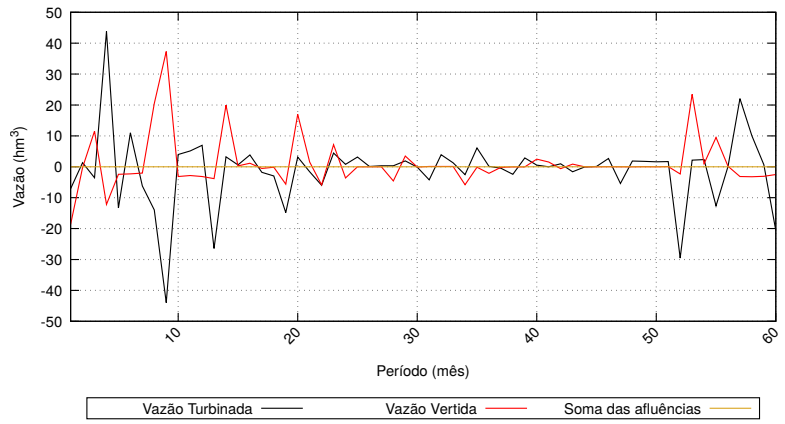
27.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



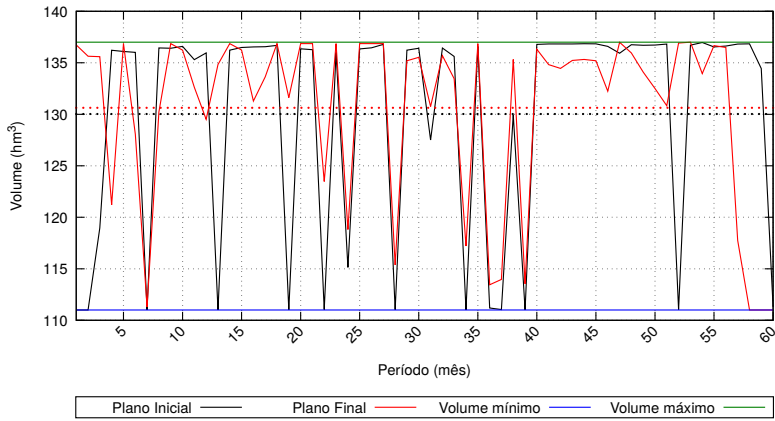
(a) SpPi

SpPi - Vazão - Diferença



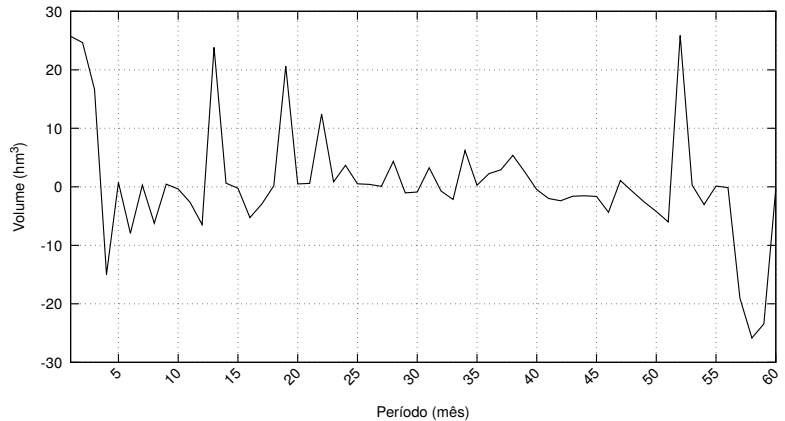
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



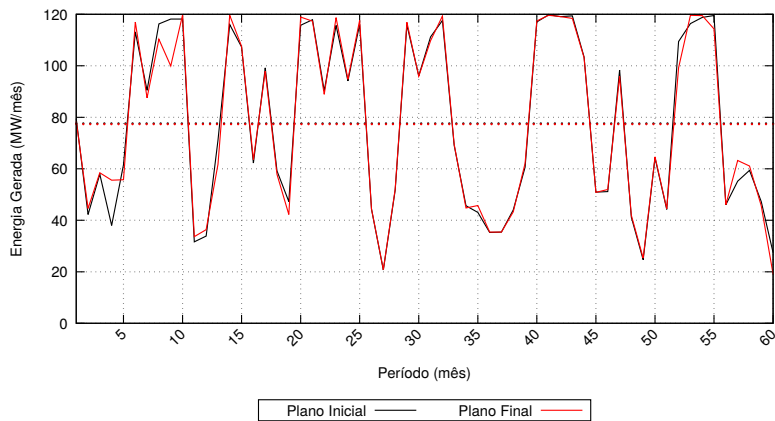
(a) SpPi

SpPi - Volume - Diferença



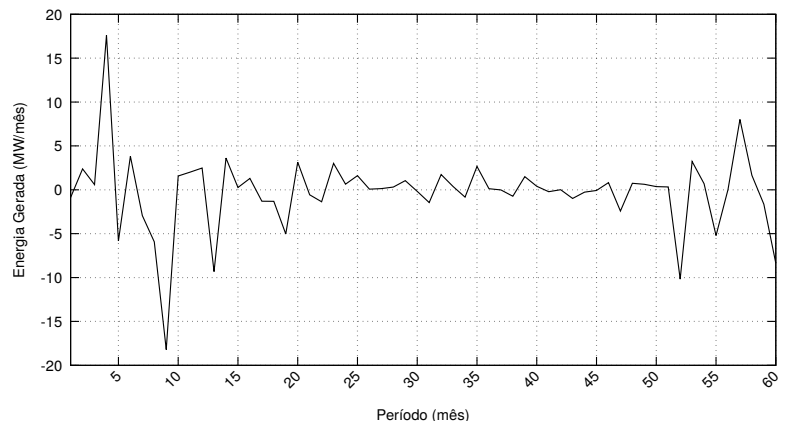
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

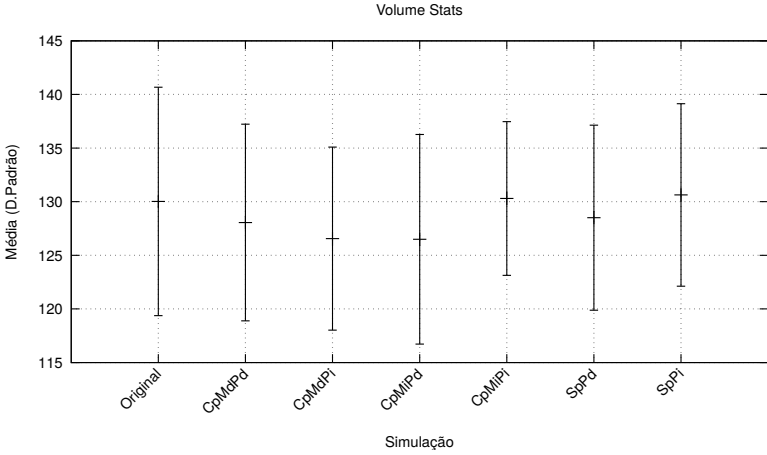
SpPi - Energia Gerada - Diferença



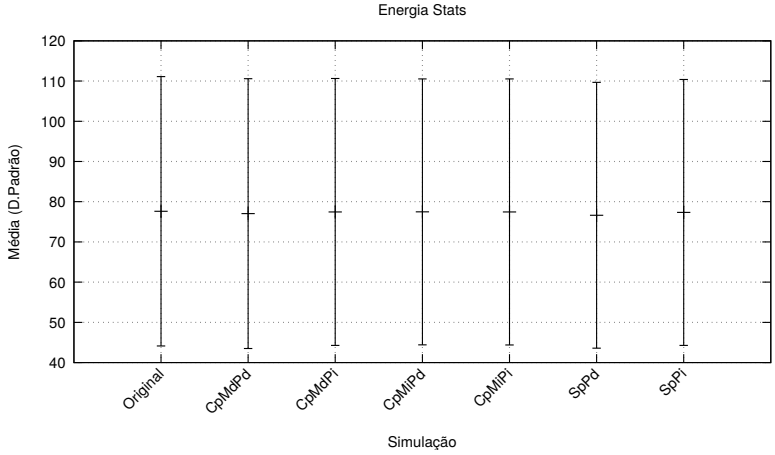
(b) SpPi

Tabela 32: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	130.02808	10.65054	77.60940	33.49460
CpMdPd	128.05776	9.16976	77.04353	33.53991
CpMdPi	126.55782	8.53776	77.46398	33.18874
CpMiPd	126.49278	9.77338	77.47045	33.05855
CpMiPi	130.30110	7.16467	77.45171	33.07873
SpPd	128.50894	8.62769	76.63192	33.04777
SpPi	130.62984	8.51291	77.33967	33.06822



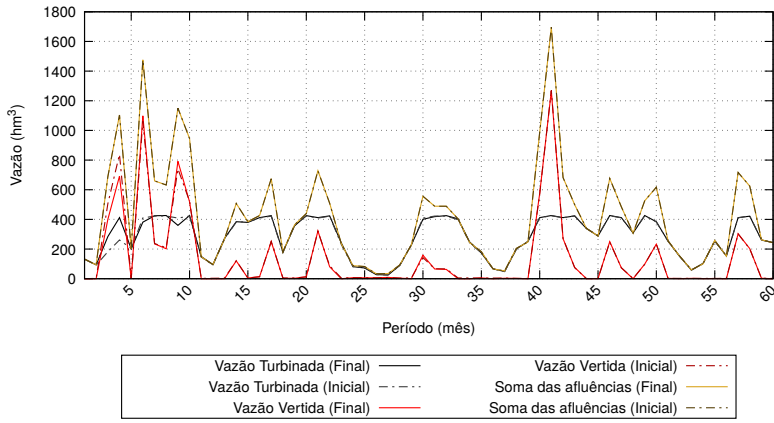
(a) Volume



(b) Energia

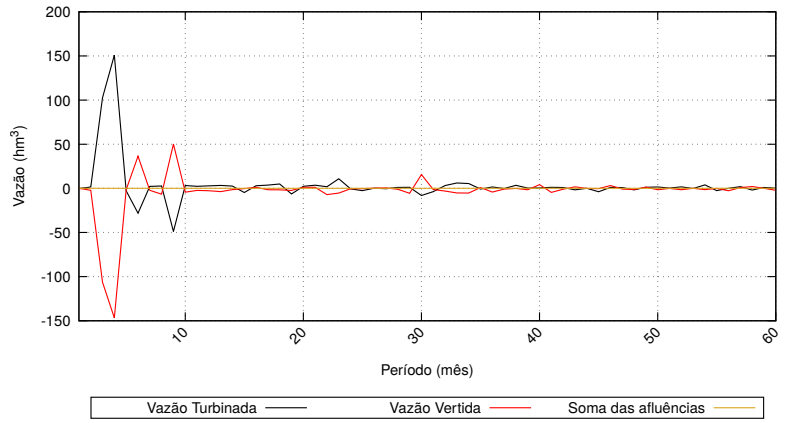
28.1 Resultados - CpMdPd

CpMdPd - Vazão - Plano Inicial x Plano Final



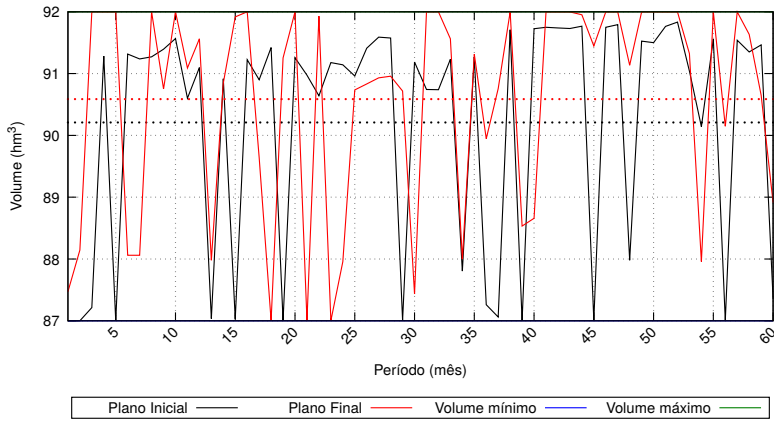
(a) CpMdPd

CpMdPd - Vazão - Diferença



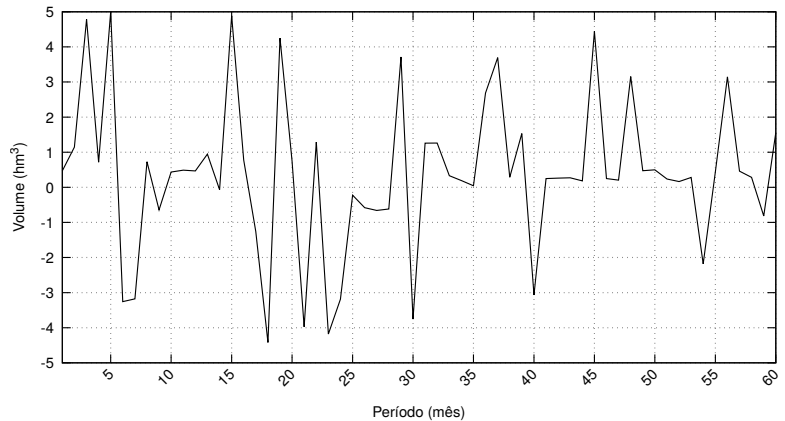
(b) CpMdPd

CpMdPd - Volume - Plano Inicial x Plano Final



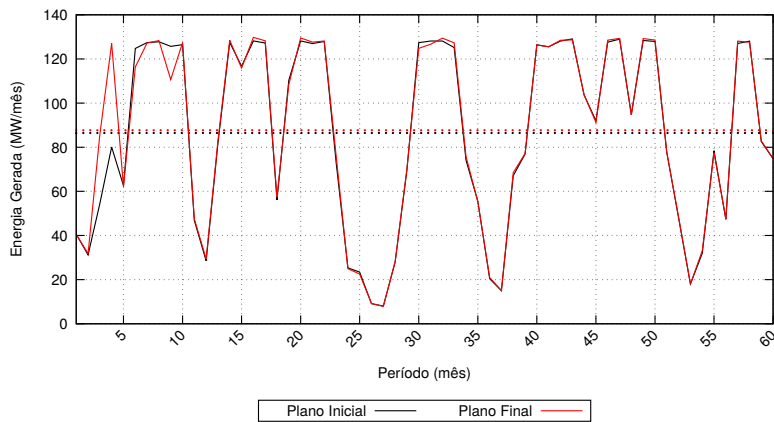
(a) CpMdPd

CpMdPd - Volume - Diferença



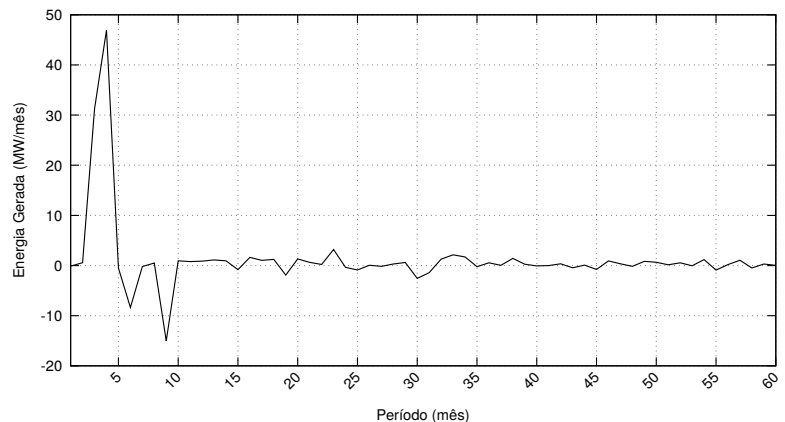
(b) CpMdPd

CpMdPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPd

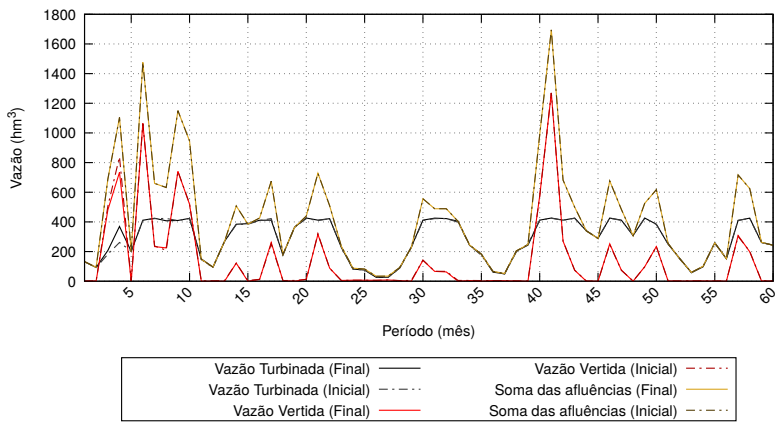
CpMdPd - Energia Gerada - Diferença



(b) CpMdPd

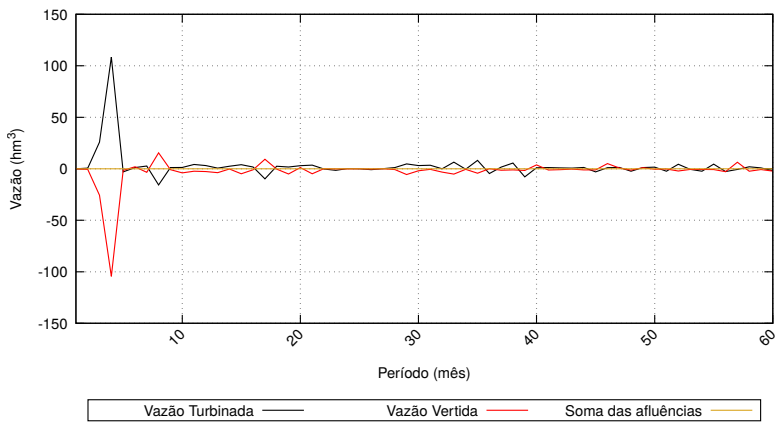
28.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



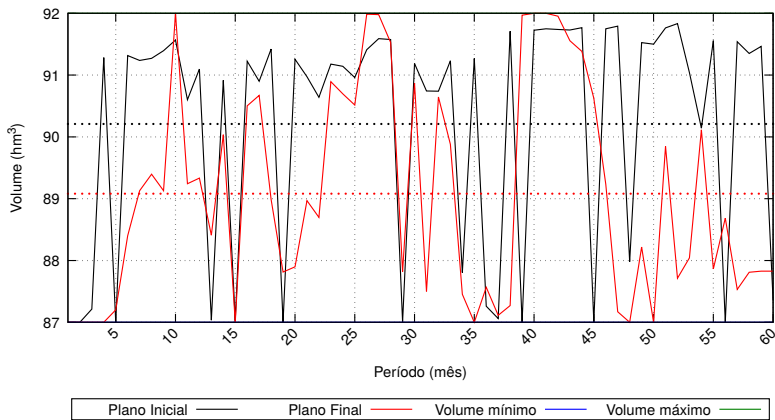
(a) CpMdPi

CpMdPi - Vazão - Diferença



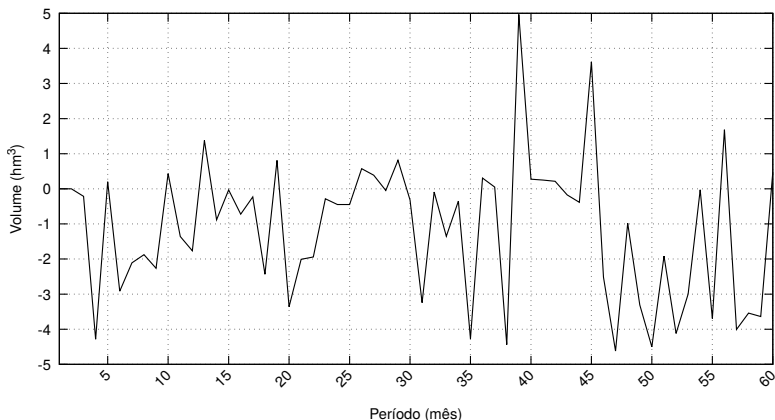
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



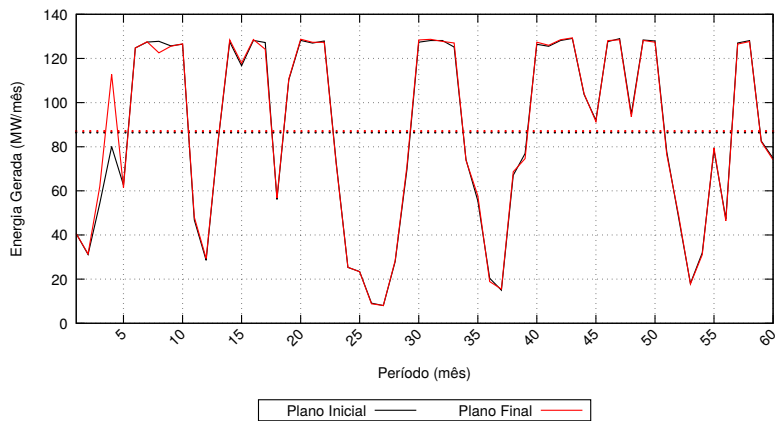
(a) CpMdPi

CpMdPi - Volume - Diferença



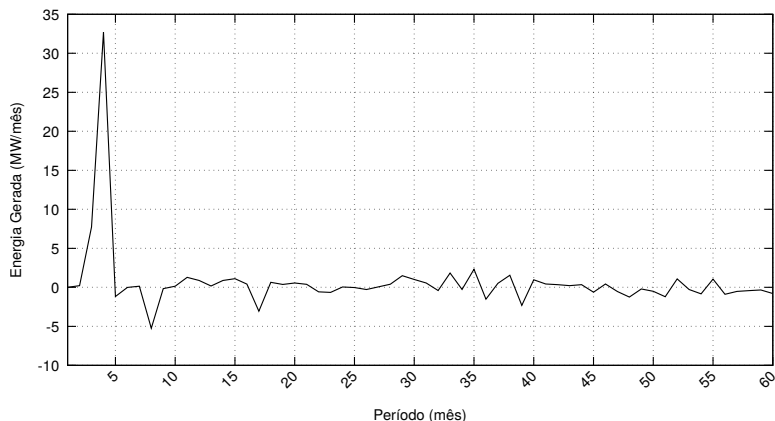
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

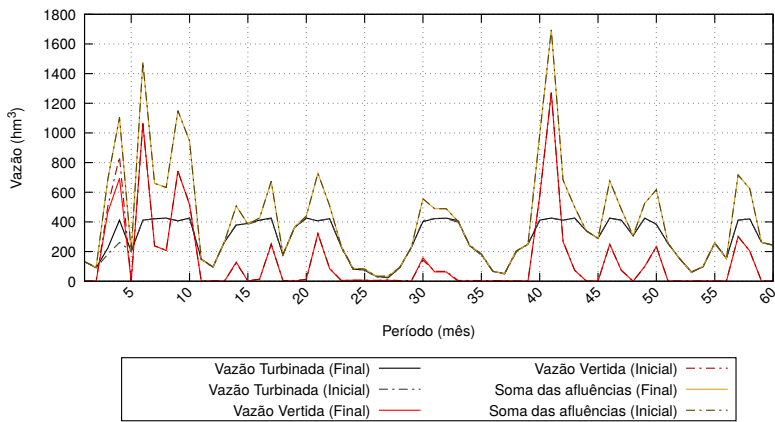
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

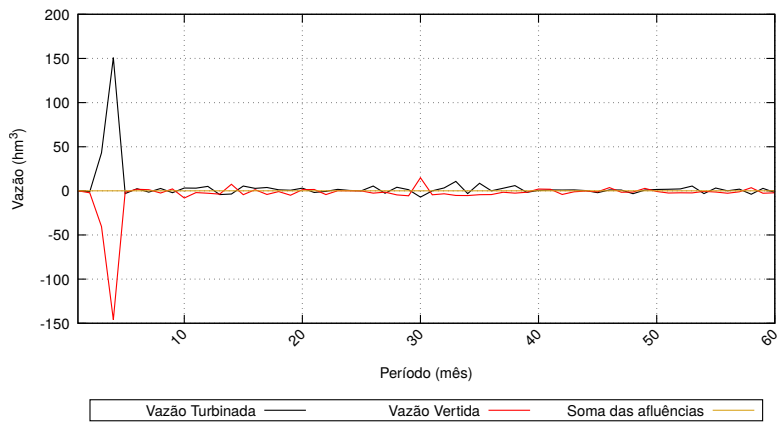
28.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



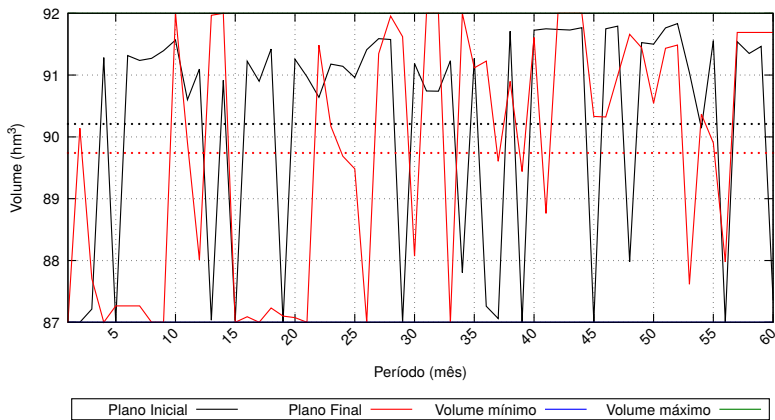
(a) CpMiPd

CpMiPd - Vazão - Diferença



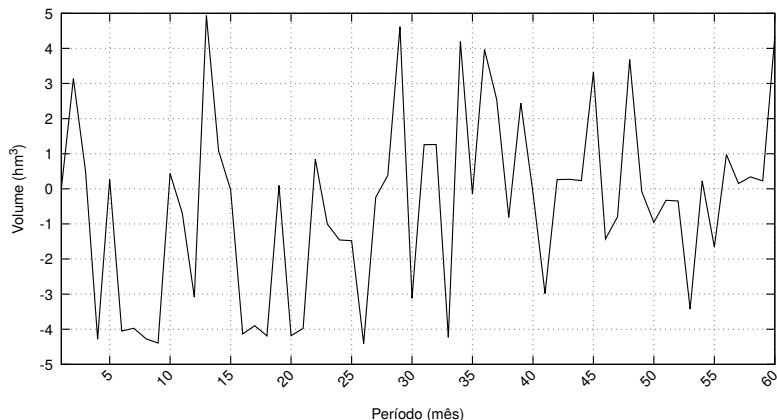
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



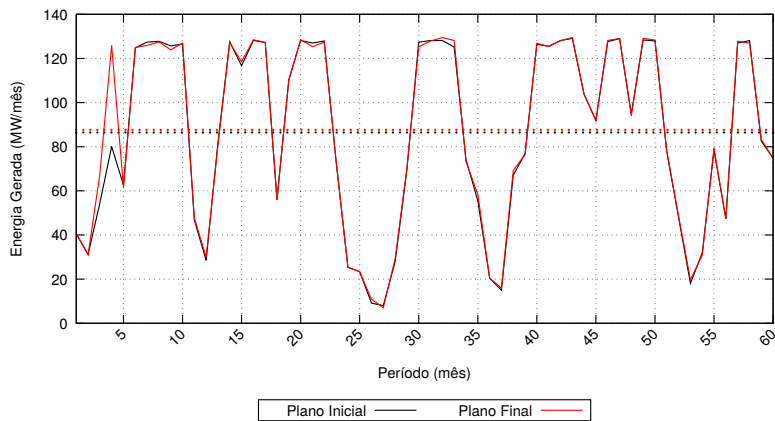
(a) CpMiPd

CpMiPd - Volume - Diferença



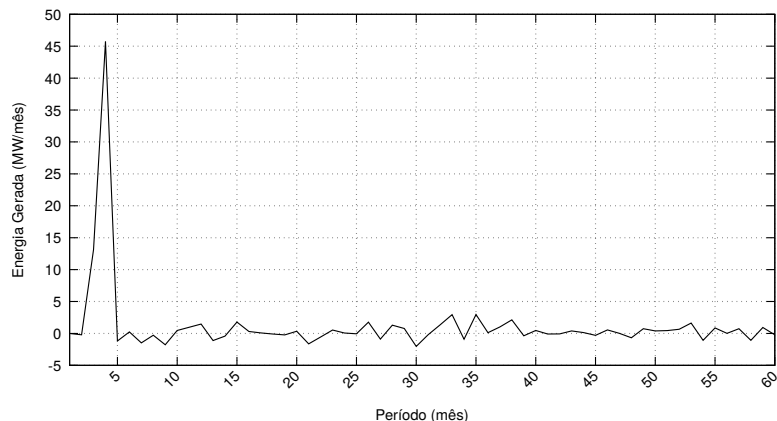
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

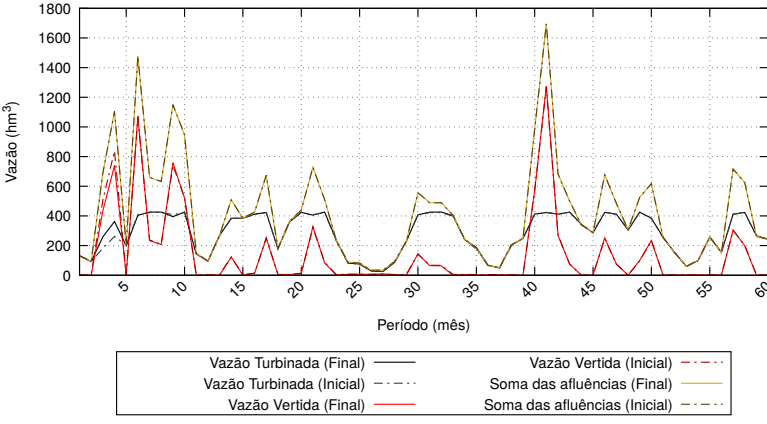
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

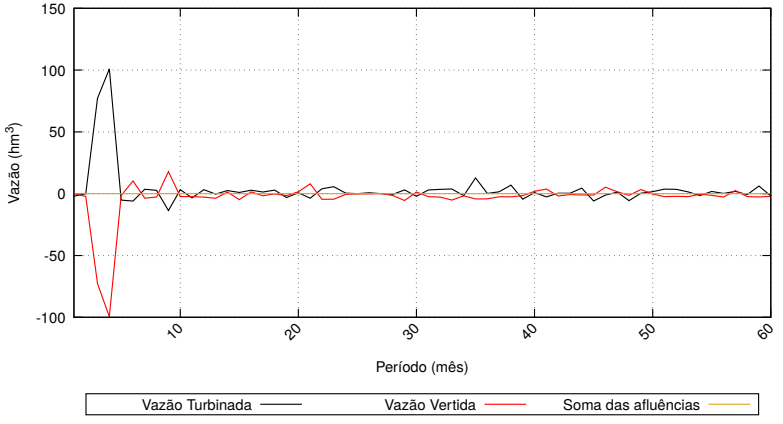
28.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



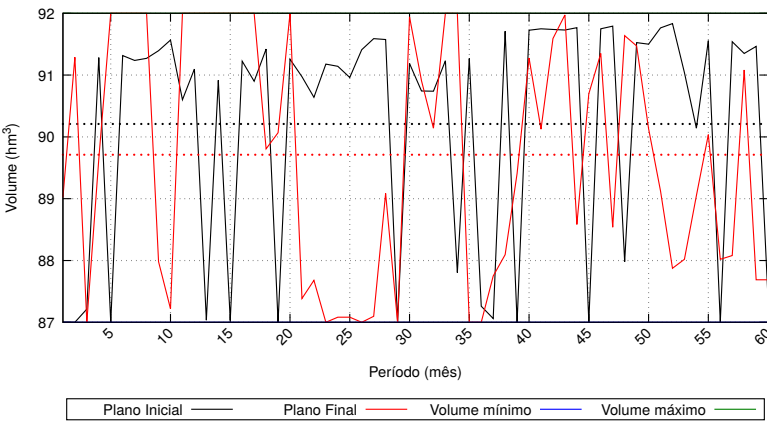
(a) CpMiPi

CpMiPi - Vazão - Diferença



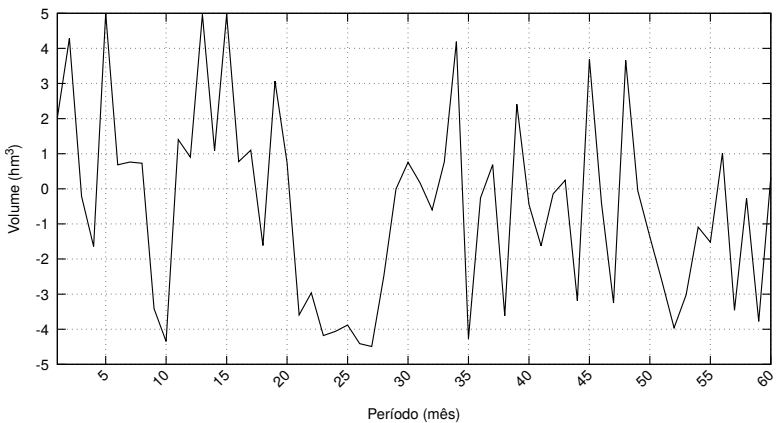
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



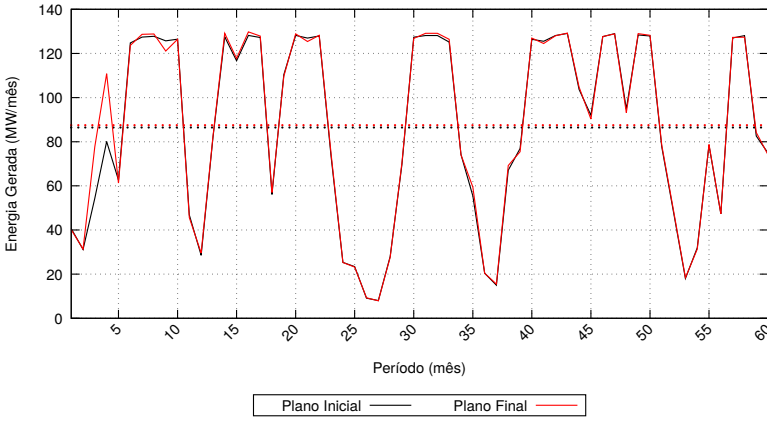
(a) CpMiPi

CpMiPi - Volume - Diferença



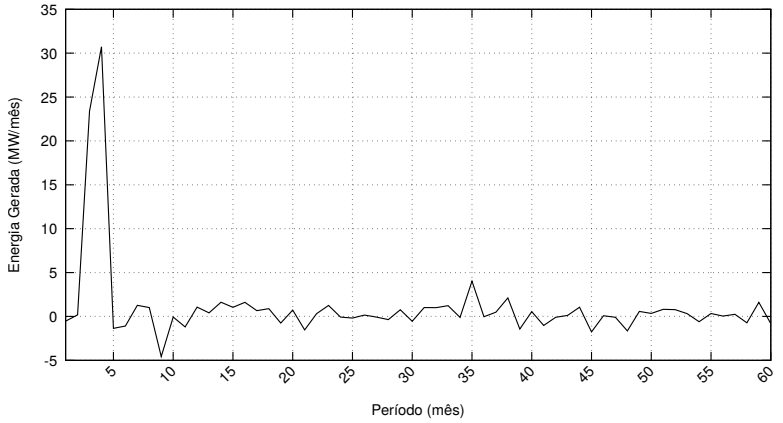
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

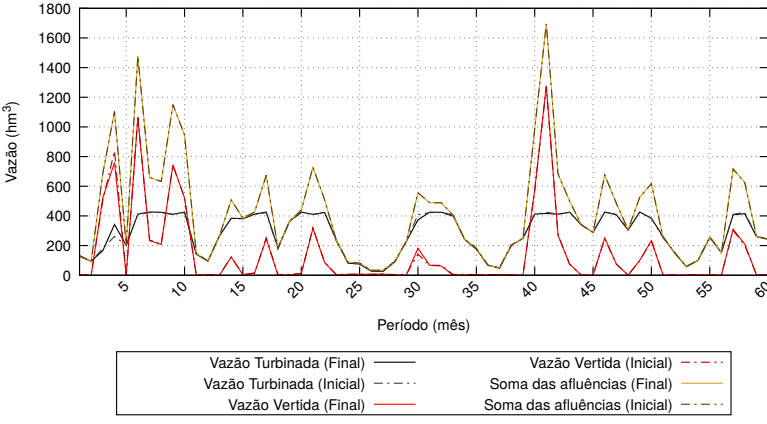
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

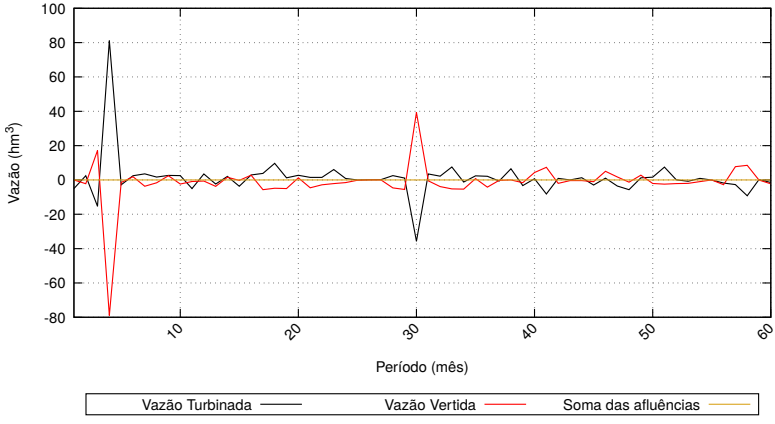
28.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



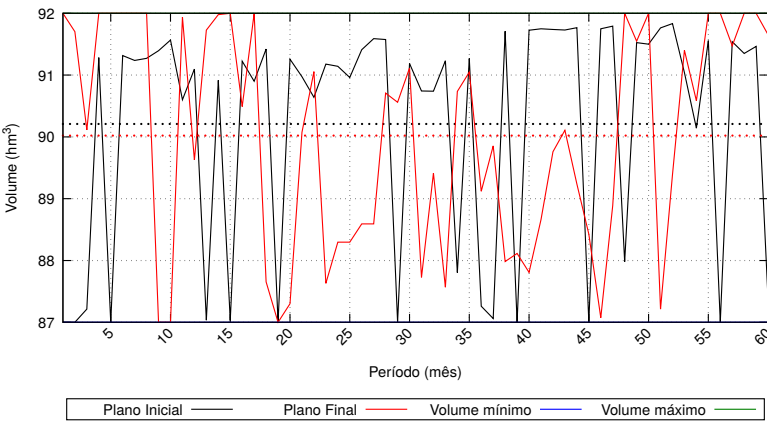
(a) SpPd

SpPd - Vazão - Diferença



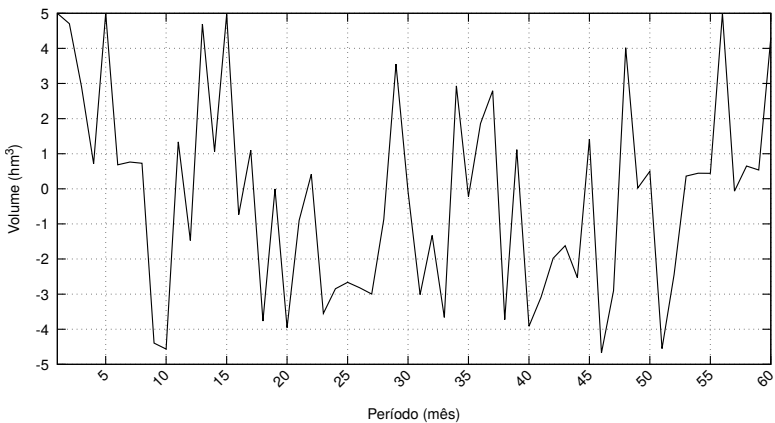
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



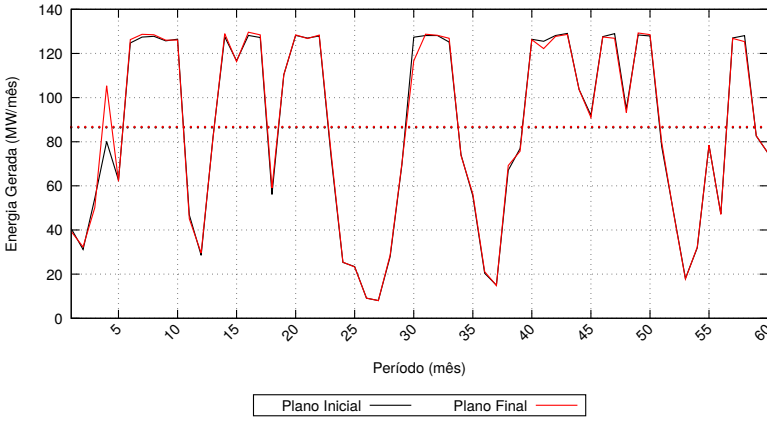
(a) SpPd

SpPd - Volume - Diferença



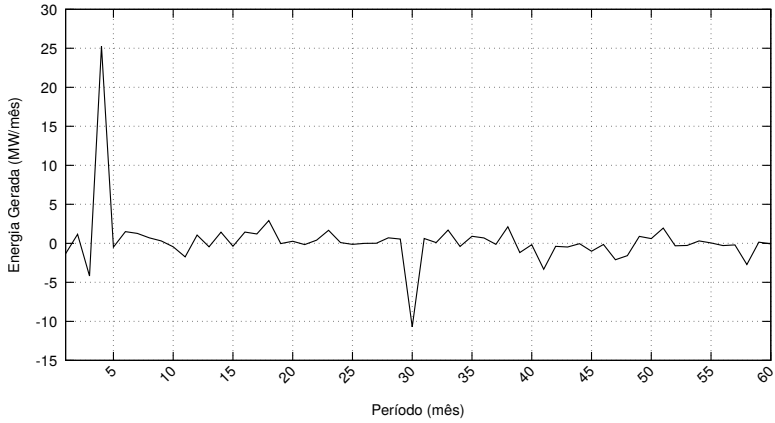
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

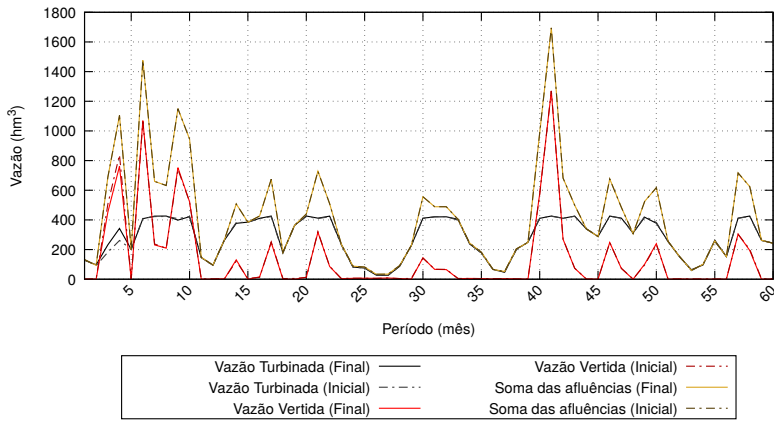
SpPd - Energia Gerada - Diferença



(b) SpPd

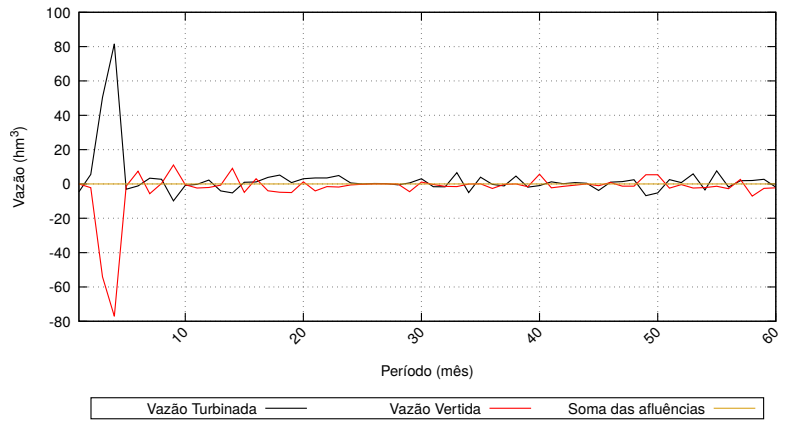
28.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



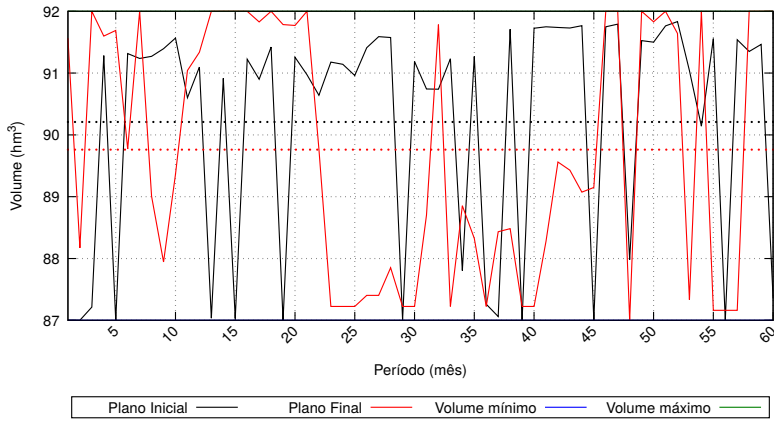
(a) SpPi

SpPi - Vazão - Diferença



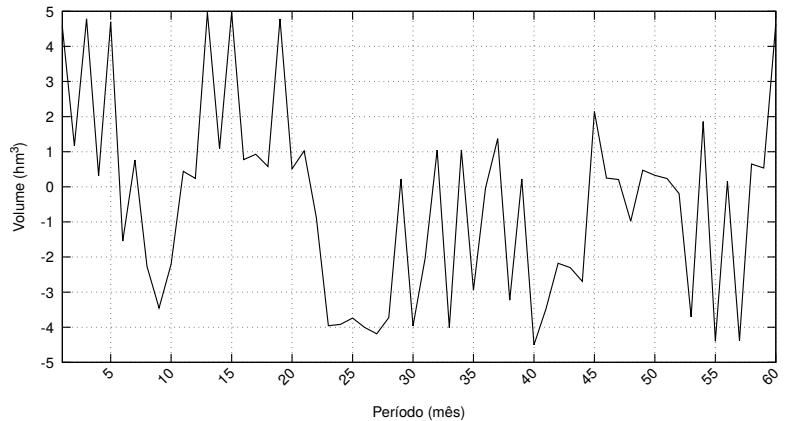
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



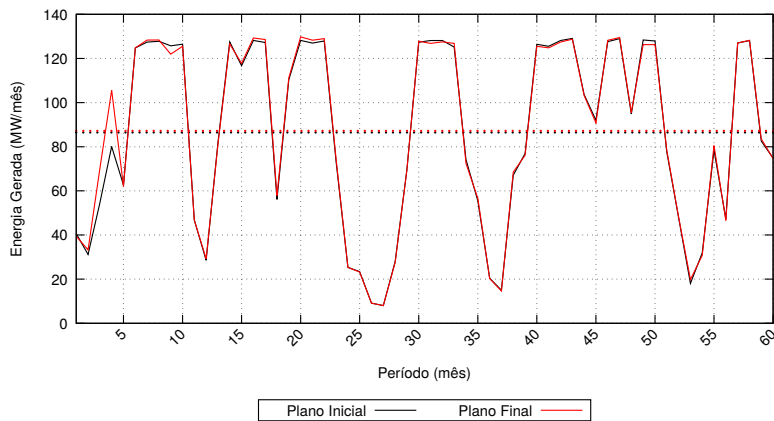
(a) SpPi

SpPi - Volume - Diferença



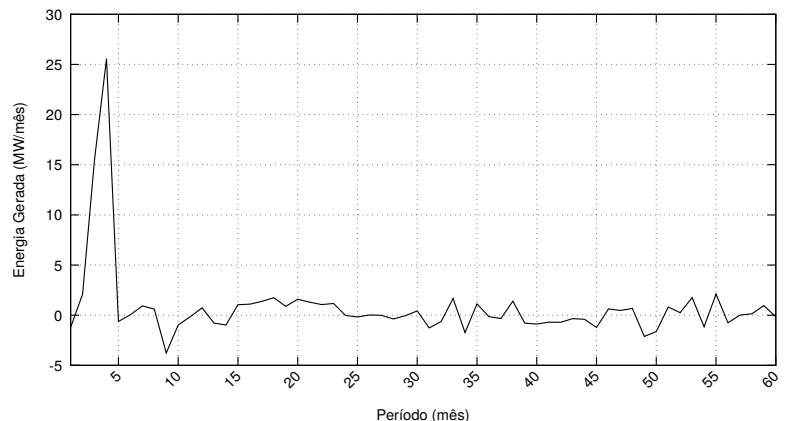
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

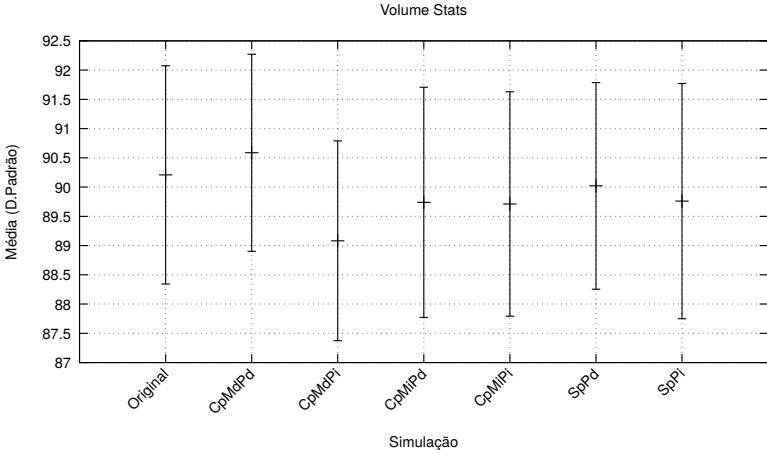
SpPi - Energia Gerada - Diferença



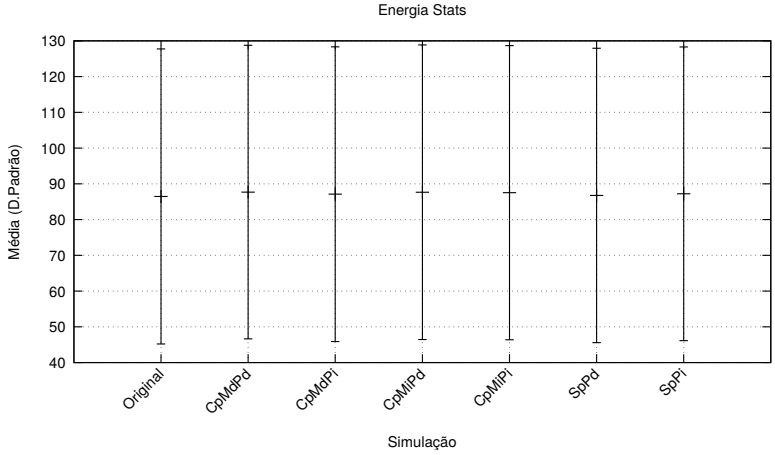
(b) SpPi

Tabela 33: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	90.20948	1.86566	86.47173	41.25588
CpMdPd	90.58643	1.68415	87.68383	41.06698
CpMdPi	89.08169	1.70757	87.10705	41.23527
CpMiPd	89.73910	1.96752	87.64472	41.21374
CpMiPi	89.71199	1.91836	87.52397	41.14643
SpPd	90.02062	1.76556	86.75798	41.17125
SpPi	89.76108	2.01133	87.22201	41.08171

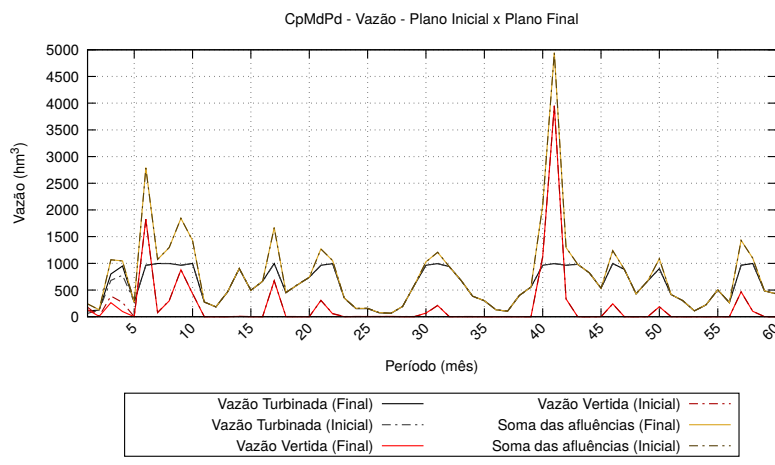


(a) Volume

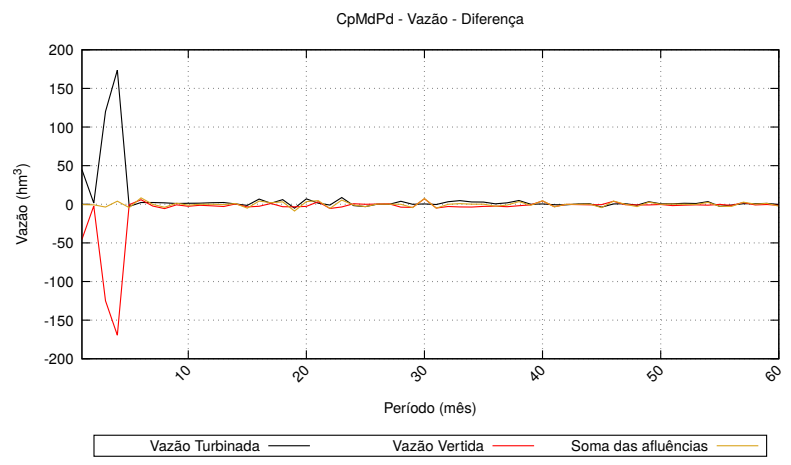


(b) Energia

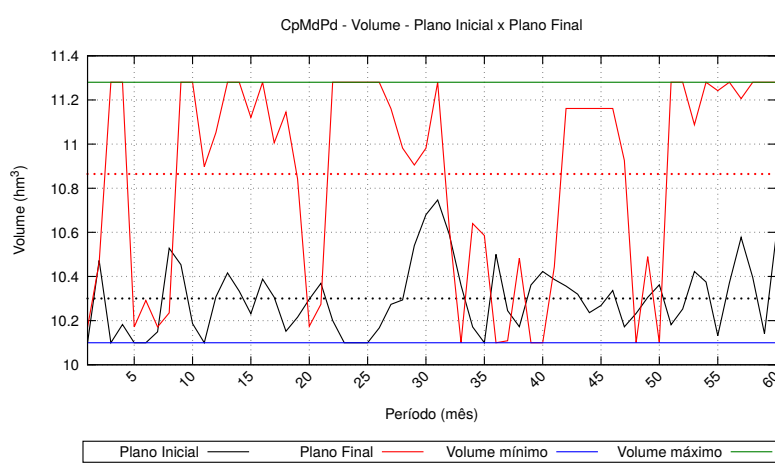
29.1 Resultados - CpMdPd



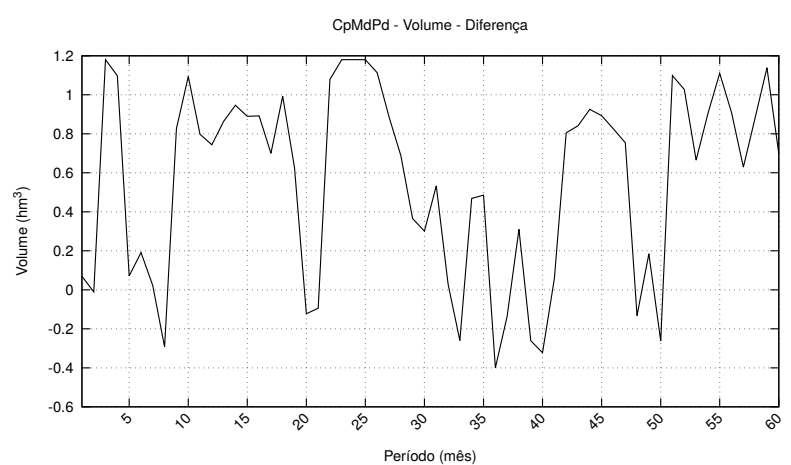
(a) CpMdPd



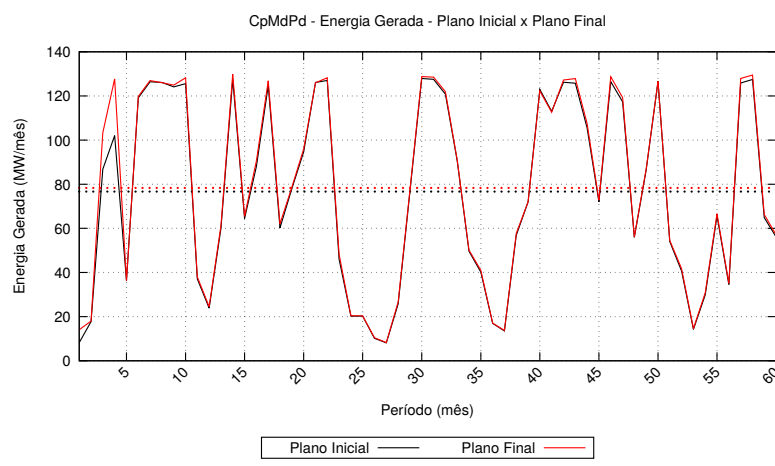
(b) CpMdPd



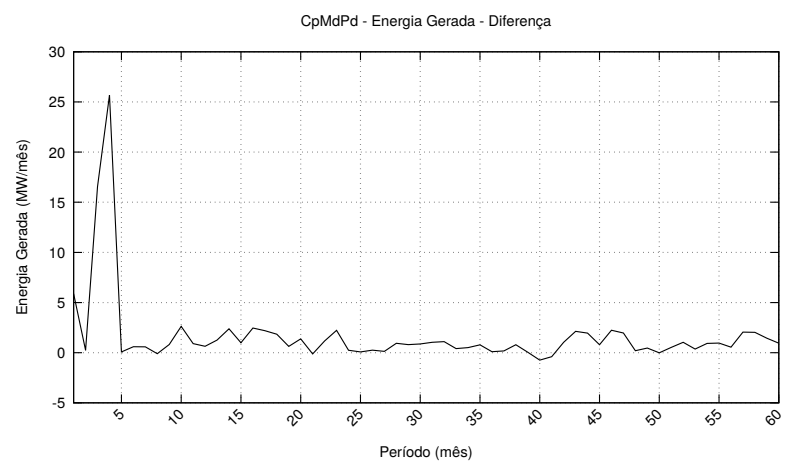
(a) CpMdPd



(b) CpMdPd



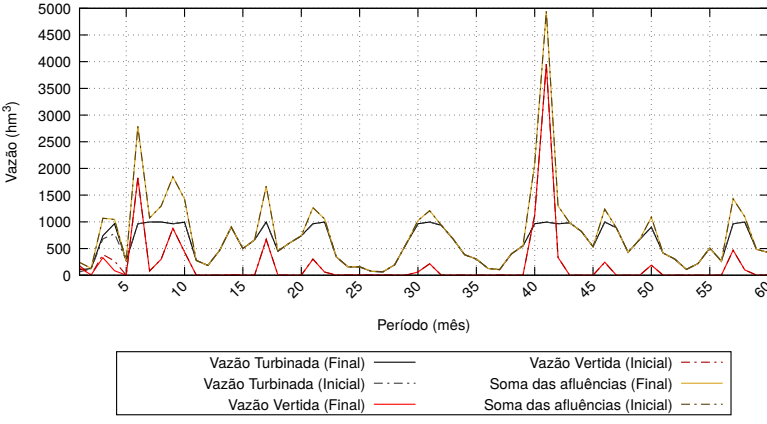
(a) CpMdPd



(b) CpMdPd

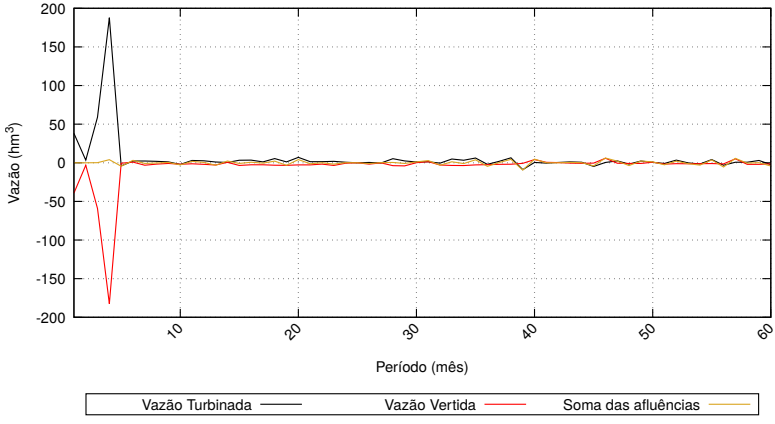
29.2 Resultados - CpMdPi

CpMdPi - Vazão - Plano Inicial x Plano Final



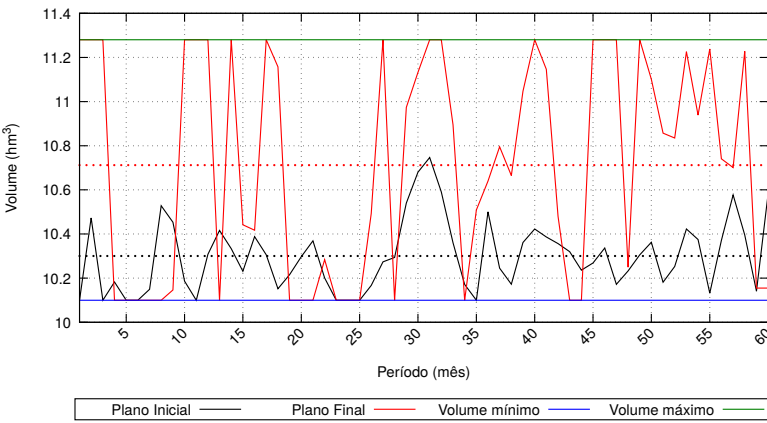
(a) CpMdPi

CpMdPi - Vazão - Diferença



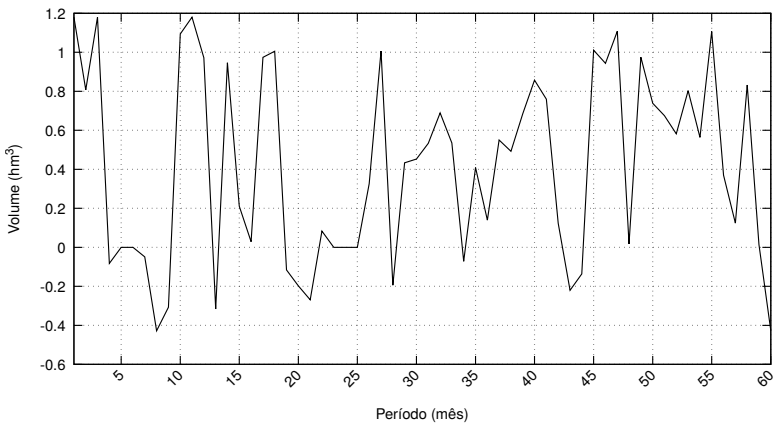
(b) CpMdPi

CpMdPi - Volume - Plano Inicial x Plano Final



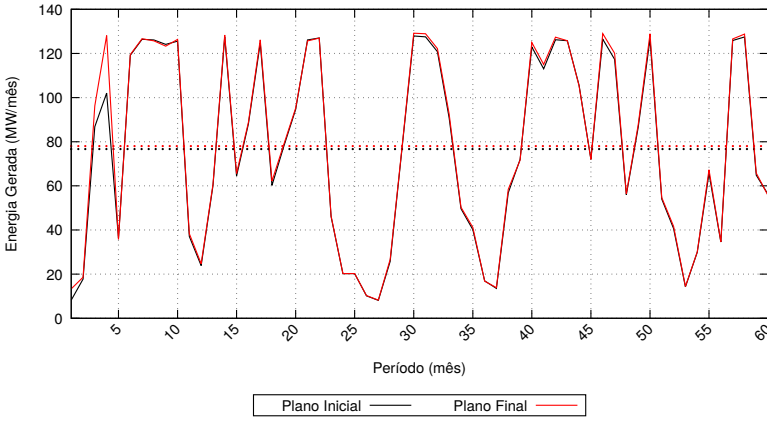
(a) CpMdPi

CpMdPi - Volume - Diferença



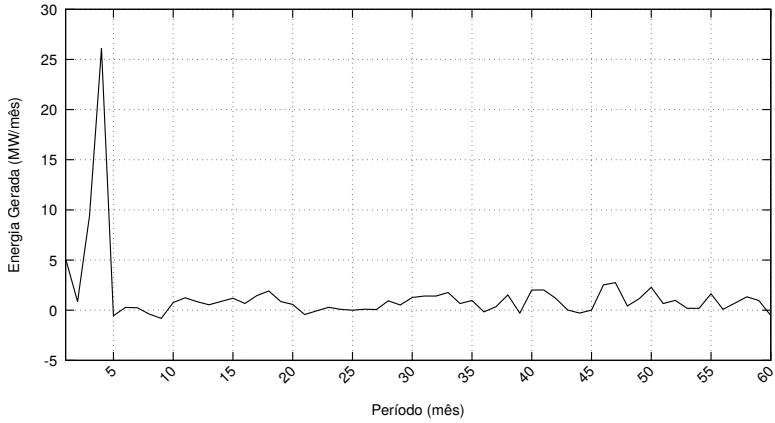
(b) CpMdPi

CpMdPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMdPi

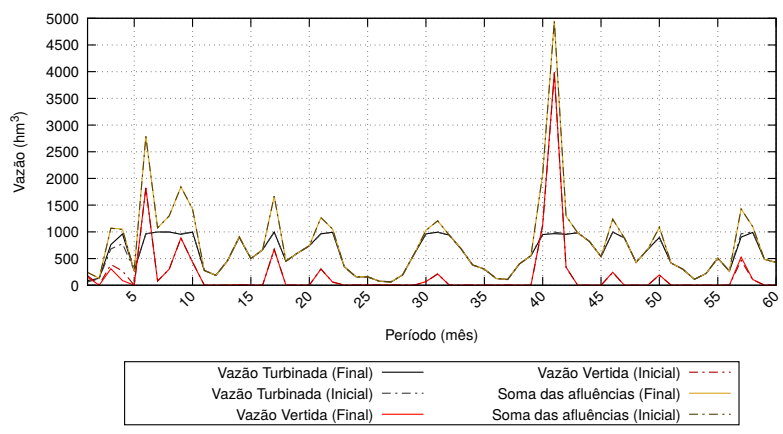
CpMdPi - Energia Gerada - Diferença



(b) CpMdPi

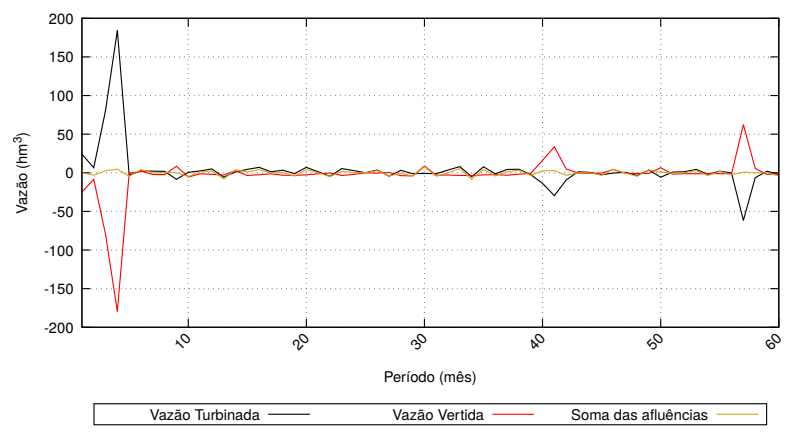
29.3 Resultados - CpMiPd

CpMiPd - Vazão - Plano Inicial x Plano Final



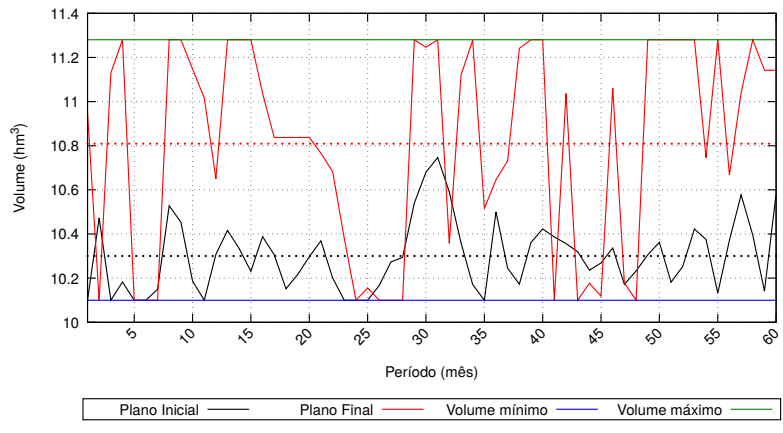
(a) CpMiPd

CpMiPd - Vazão - Diferença



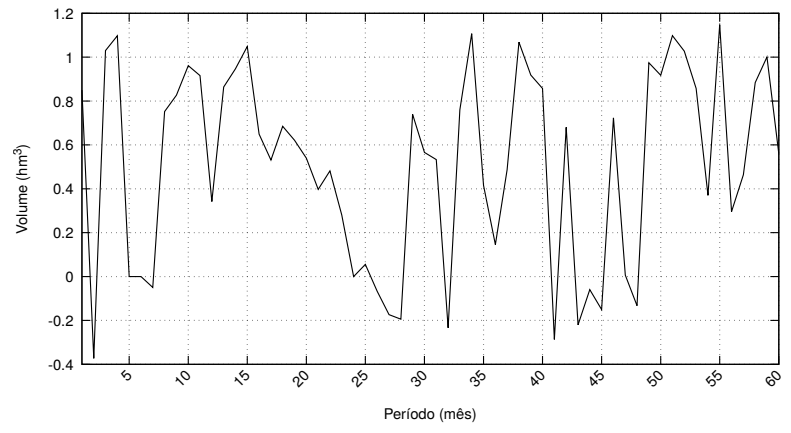
(b) CpMiPd

CpMiPd - Volume - Plano Inicial x Plano Final



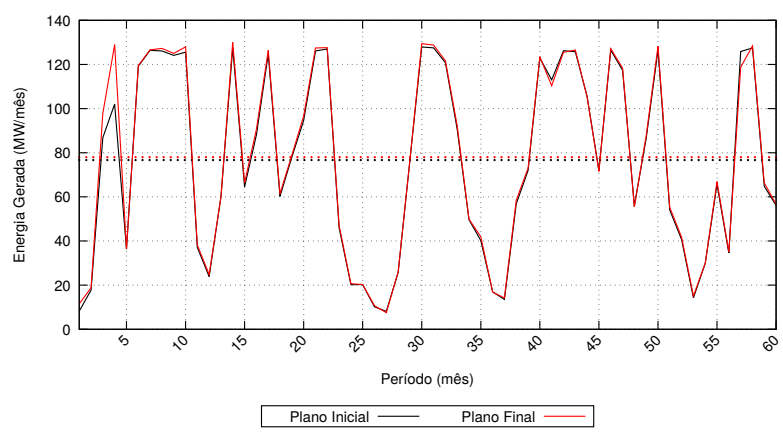
(a) CpMiPd

CpMiPd - Volume - Diferença



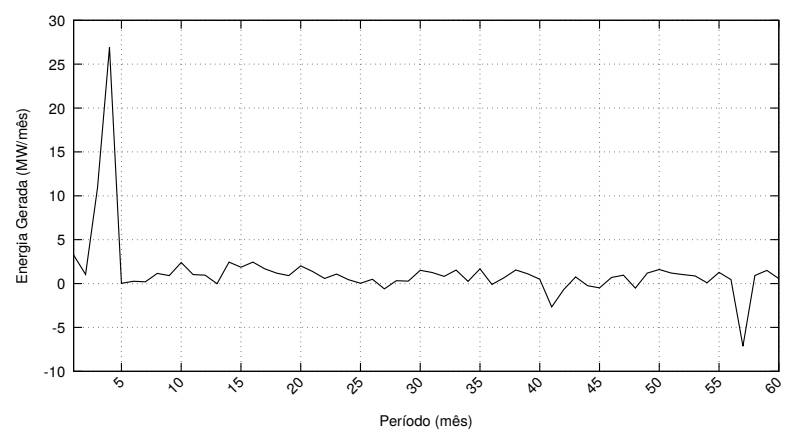
(b) CpMiPd

CpMiPd - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPd

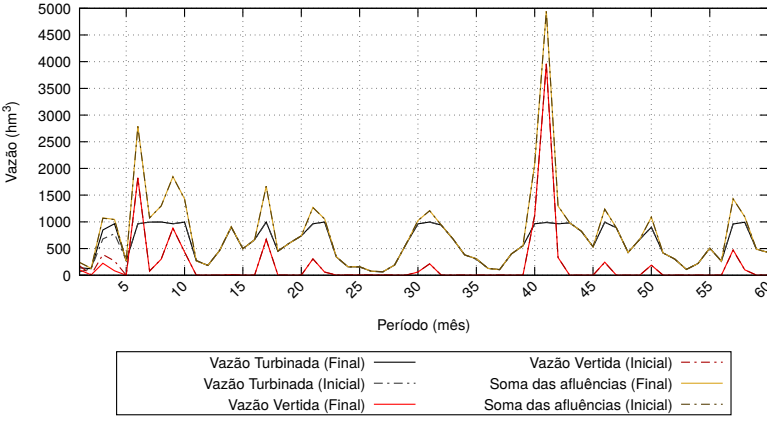
CpMiPd - Energia Gerada - Diferença



(b) CpMiPd

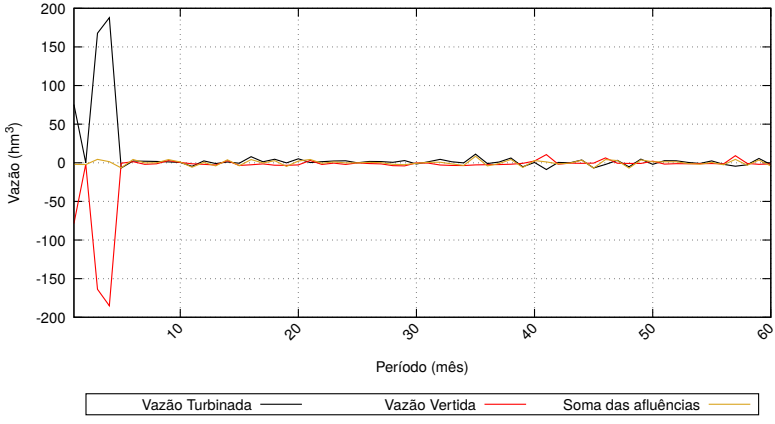
29.4 Resultados - CpMiPi

CpMiPi - Vazão - Plano Inicial x Plano Final



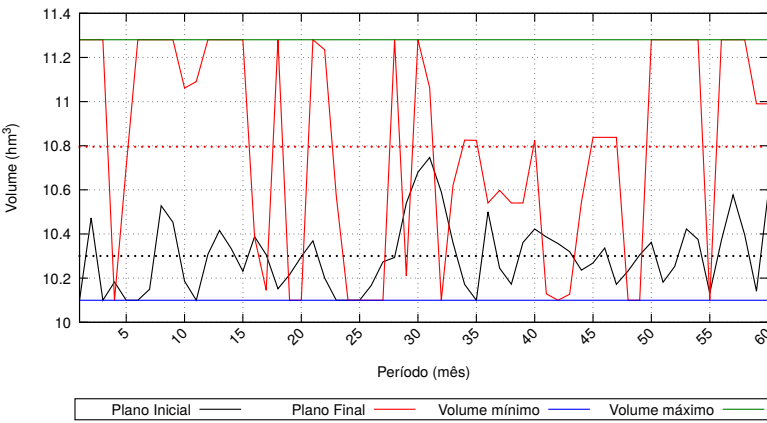
(a) CpMiPi

CpMiPi - Vazão - Diferença



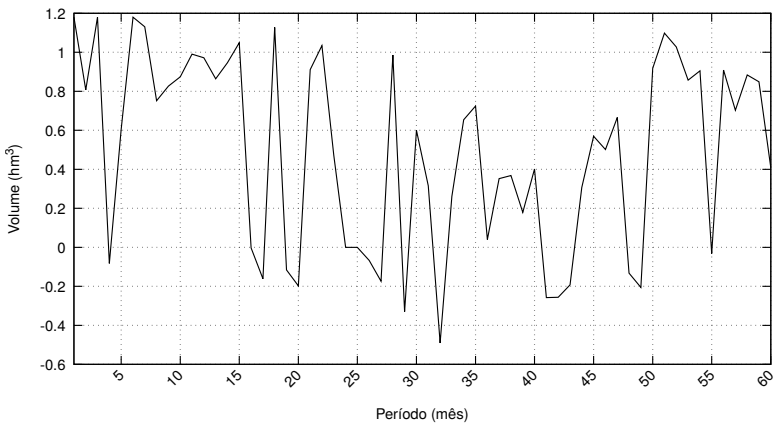
(b) CpMiPi

CpMiPi - Volume - Plano Inicial x Plano Final



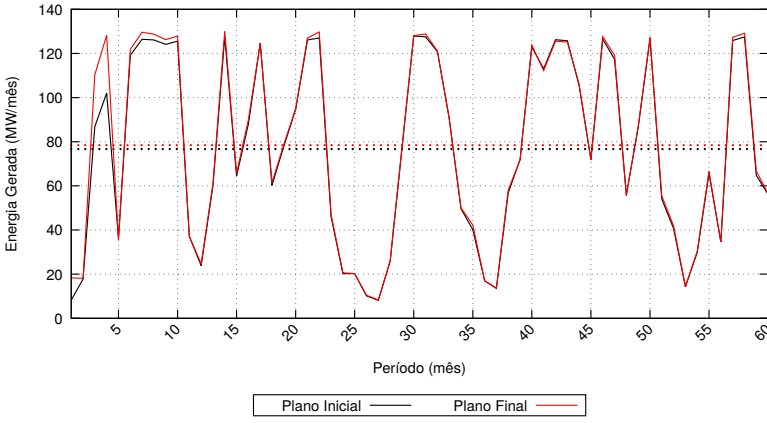
(a) CpMiPi

CpMiPi - Volume - Diferença



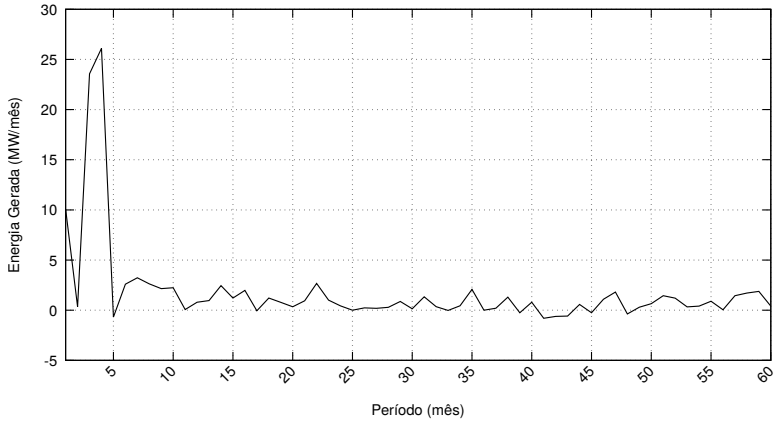
(b) CpMiPi

CpMiPi - Energia Gerada - Plano Inicial x Plano Final



(a) CpMiPi

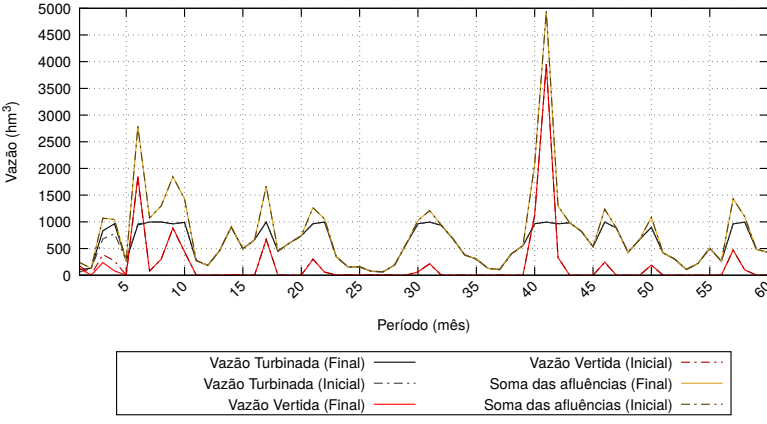
CpMiPi - Energia Gerada - Diferença



(b) CpMiPi

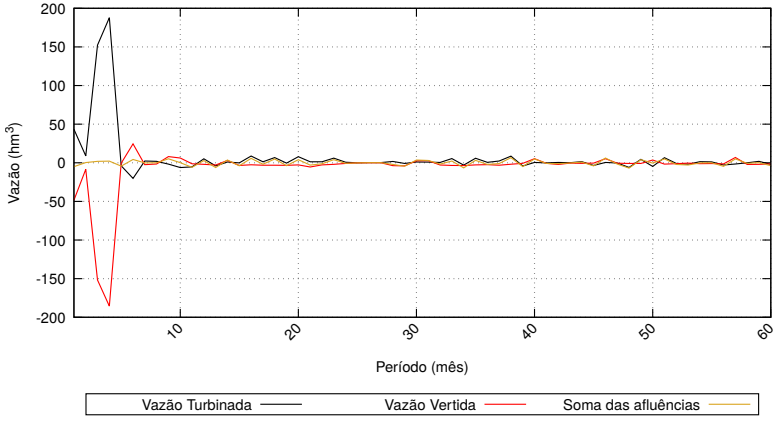
29.5 Resultados - SpPd

SpPd - Vazão - Plano Inicial x Plano Final



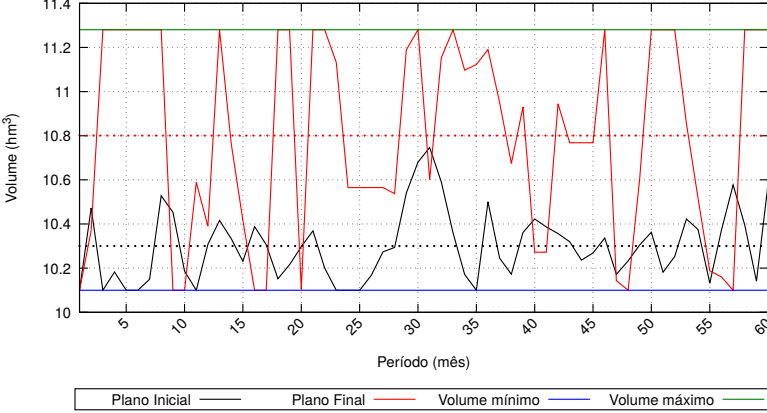
(a) SpPd

SpPd - Vazão - Diferença



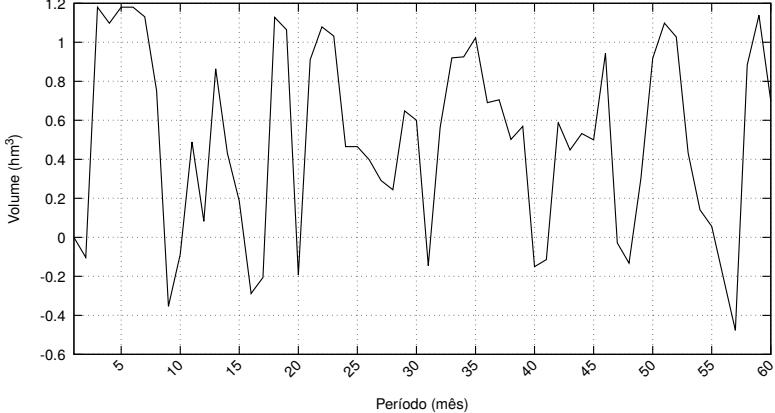
(b) SpPd

SpPd - Volume - Plano Inicial x Plano Final



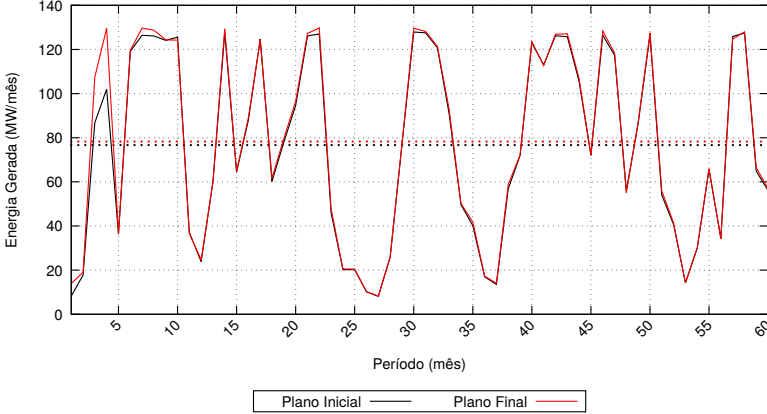
(a) SpPd

SpPd - Volume - Diferença



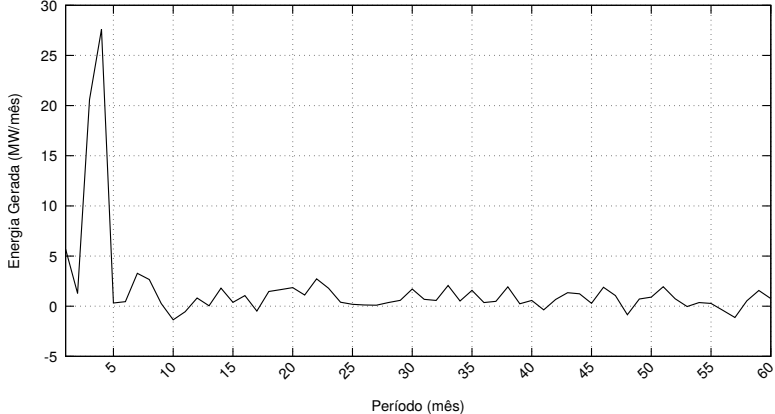
(b) SpPd

SpPd - Energia Gerada - Plano Inicial x Plano Final



(a) SpPd

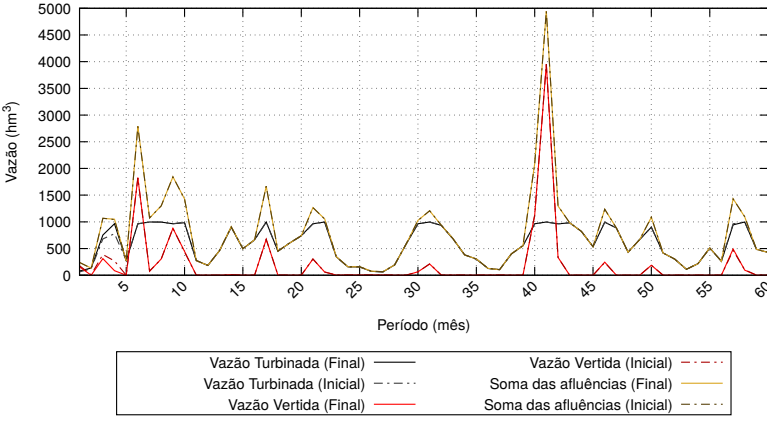
SpPd - Energia Gerada - Diferença



(b) SpPd

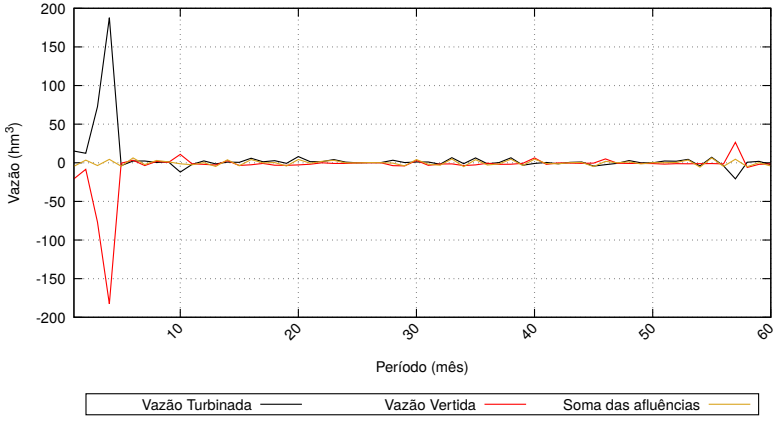
29.6 Resultados - SpPi

SpPi - Vazão - Plano Inicial x Plano Final



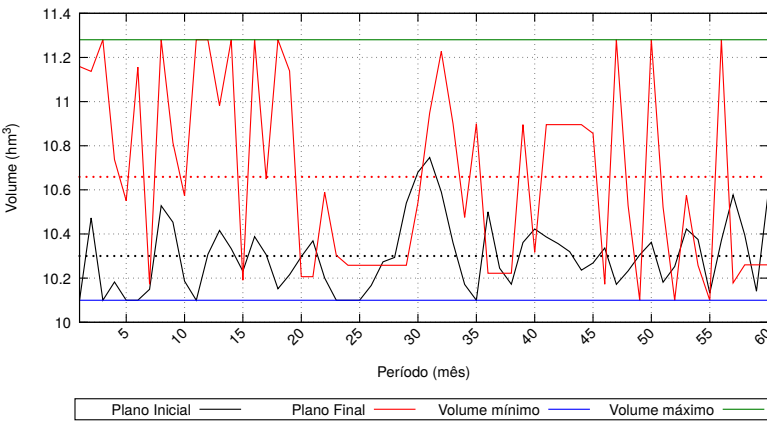
(a) SpPi

SpPi - Vazão - Diferença



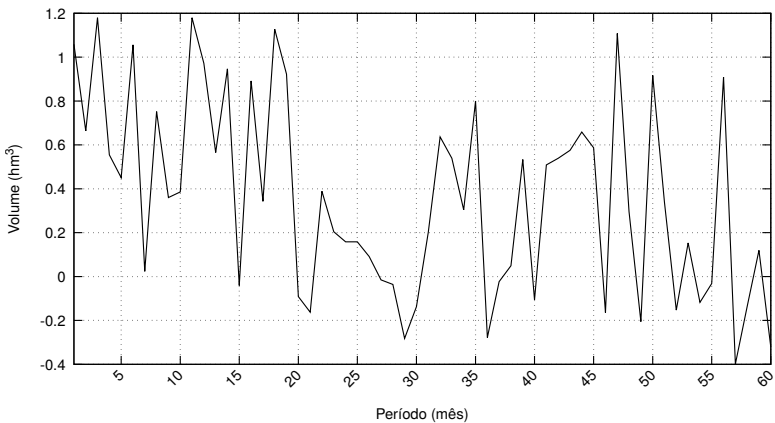
(b) SpPi

SpPi - Volume - Plano Inicial x Plano Final



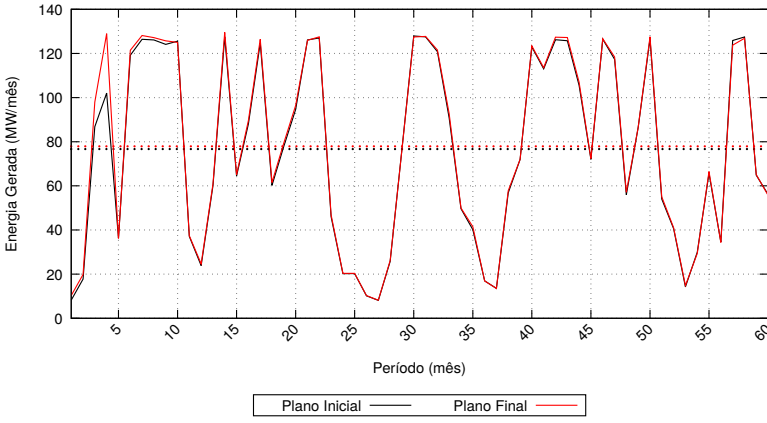
(a) SpPi

SpPi - Volume - Diferença



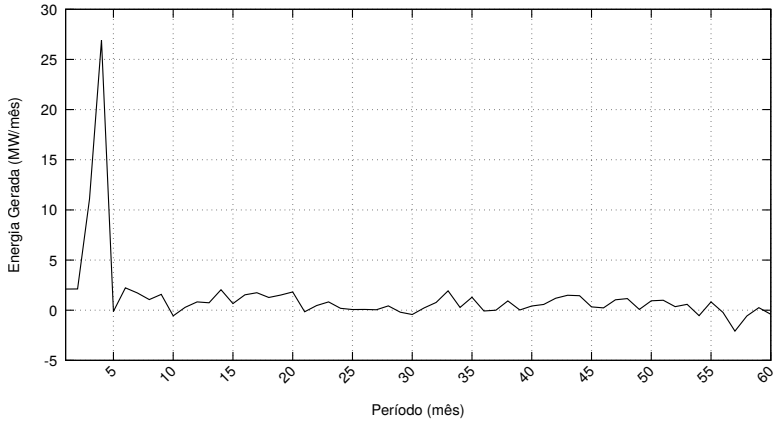
(b) SpPi

SpPi - Energia Gerada - Plano Inicial x Plano Final



(a) SpPi

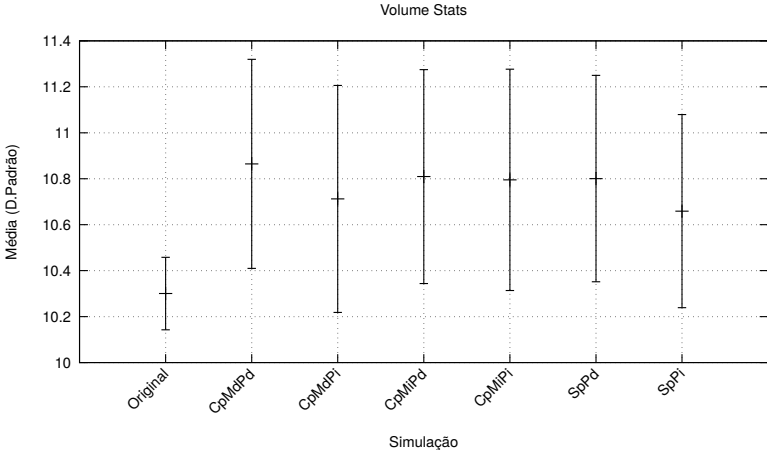
SpPi - Energia Gerada - Diferença



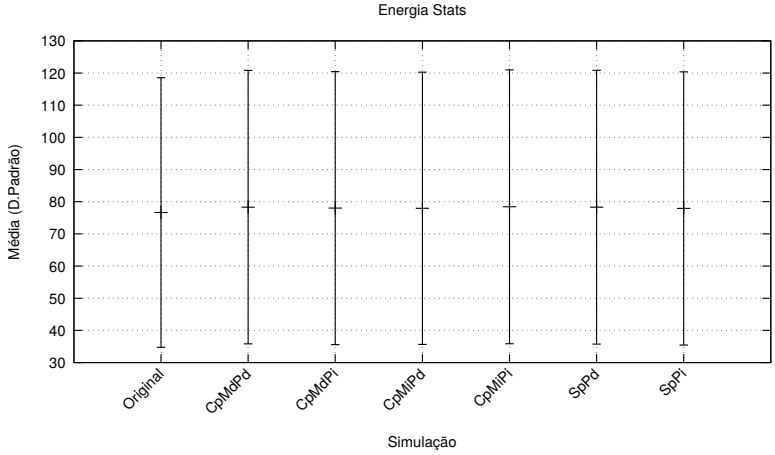
(b) SpPi

Tabela 34: GPlan Table

	volume		energy	
	Avg	SDev	Avg	SDev
Original	10.30039	0.15769	76.65360	41.89884
CpMdPd	10.86466	0.45476	78.31394	42.50975
CpMdPi	10.71213	0.49388	78.01749	42.43511
CpMiPd	10.80948	0.46541	77.94944	42.30543
CpMiPi	10.79525	0.48168	78.42719	42.56766
SpPd	10.80061	0.44908	78.29291	42.54372
SpPi	10.65897	0.42009	77.90797	42.45673



(a) Volume



(b) Energia