

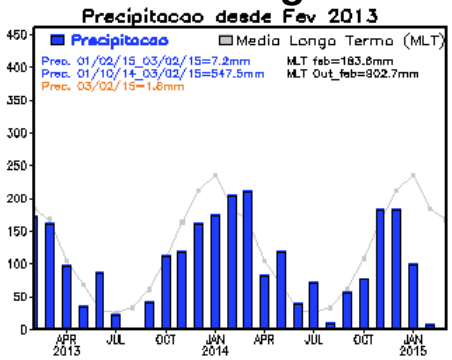
Condições Operativas do SIN

João José Cascaes Dias

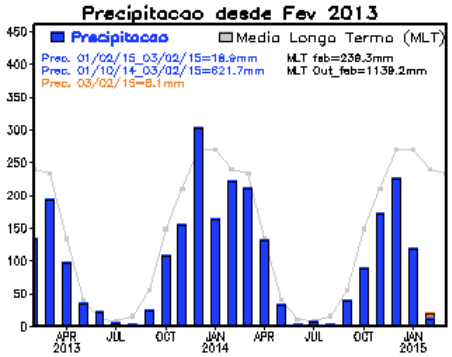
Rio de Janeiro, 6 de fevereiro de 2015

Anomalia Precipitação Média nas Bacias Hidrográficas do SIN

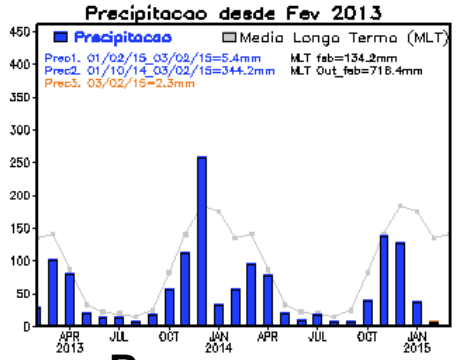
Alto Paraguai



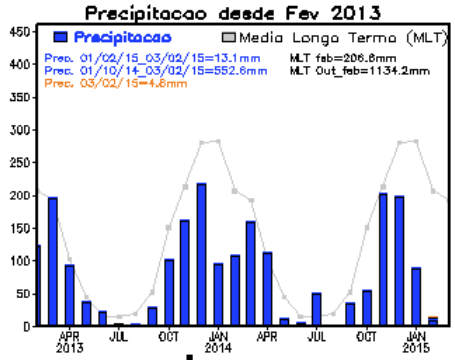
Tocantins



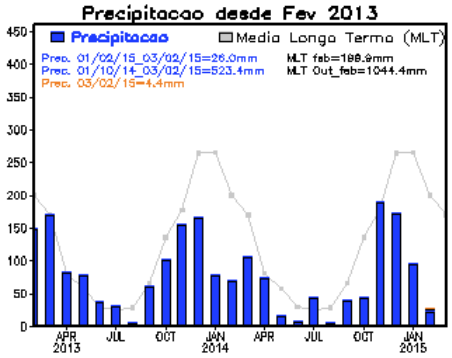
São Francisco



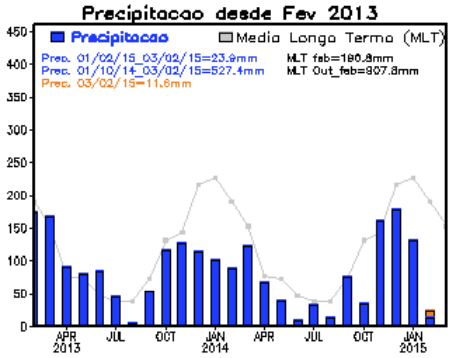
Paranaíba



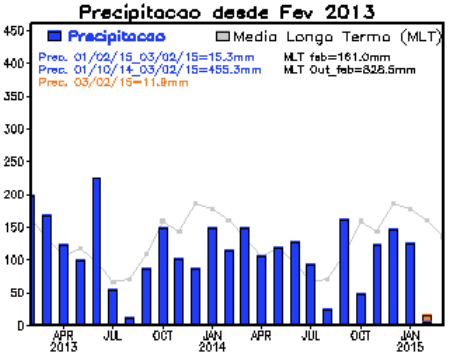
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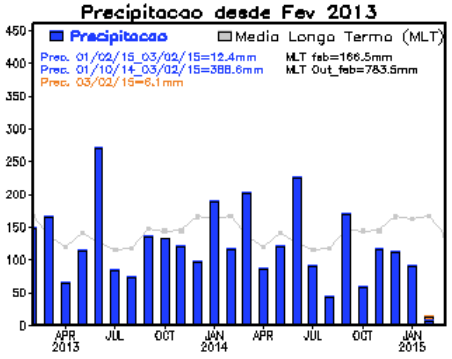
Tietê



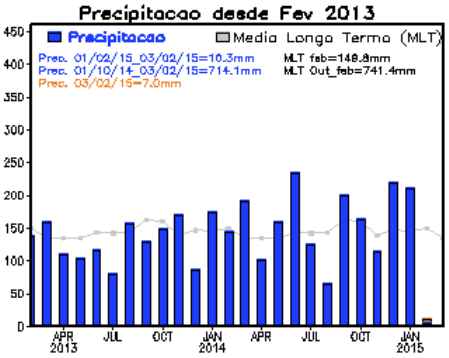
Paranapanema



Iguaçu

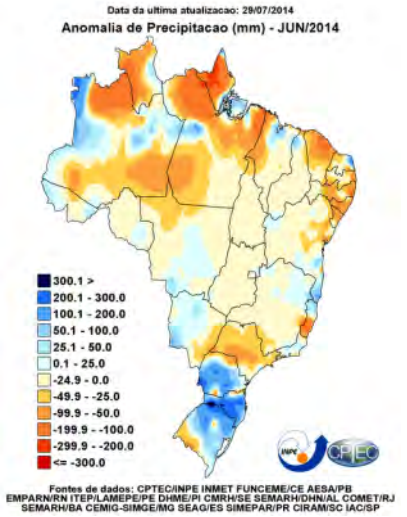


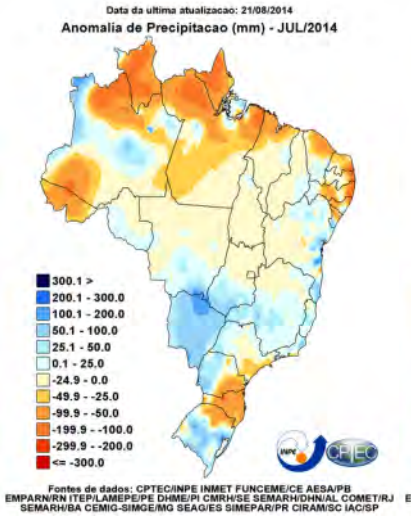
Uruguai

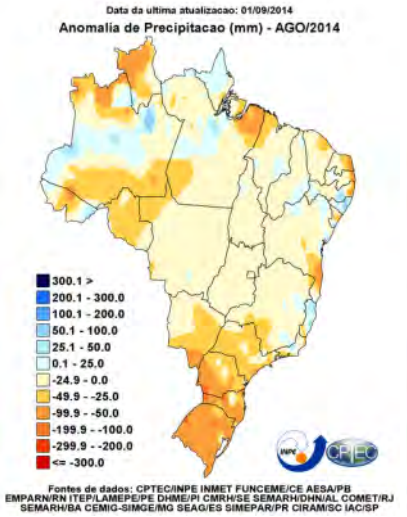


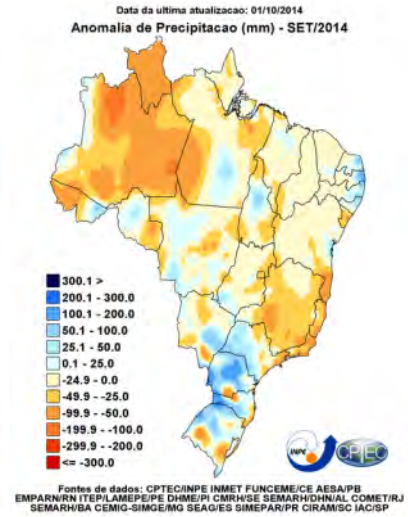
FONTE: CPTEC/INPE

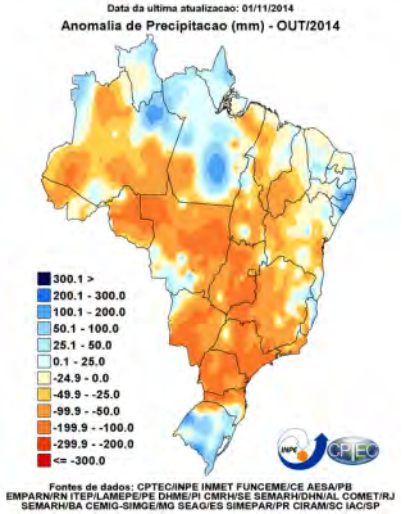
Anomalias de Precipitação Mensal

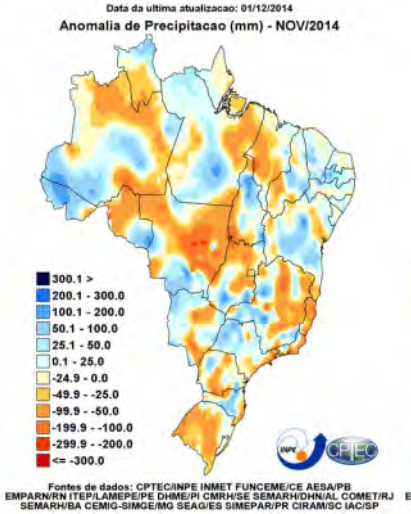


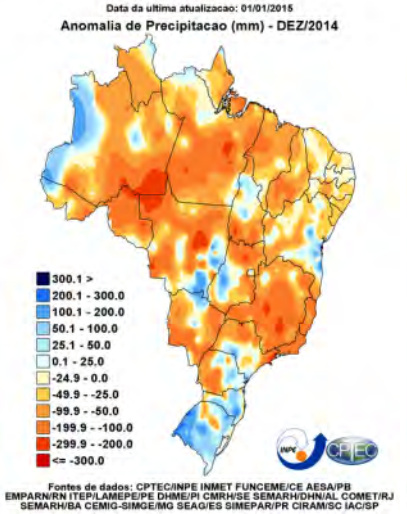


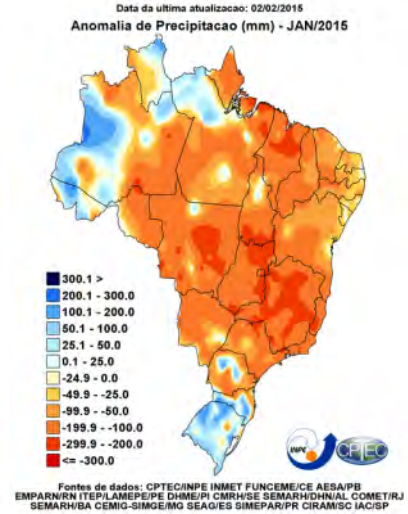






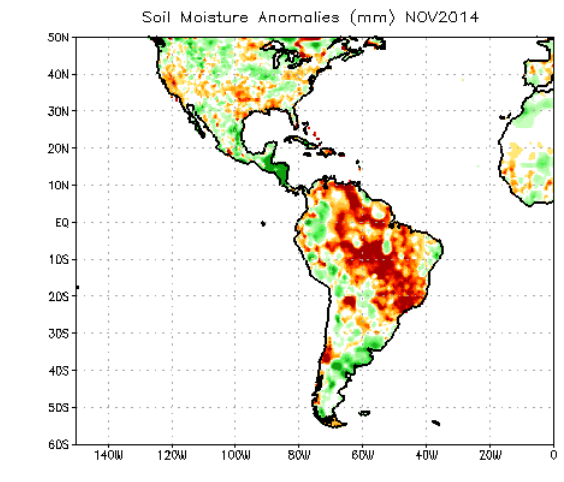


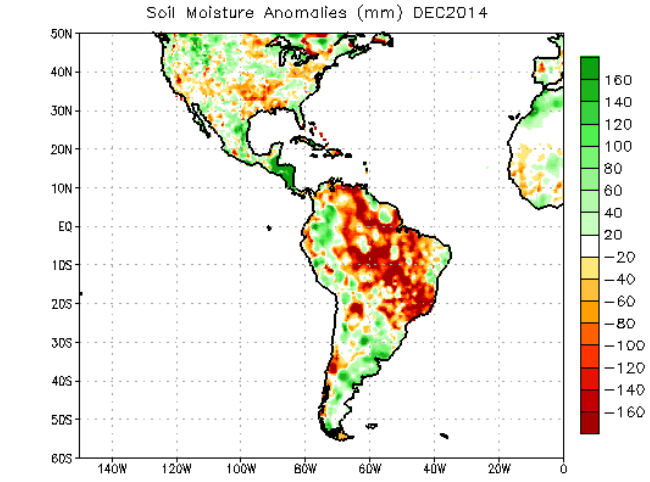




Tractebel Energia
GDF SUEZ

Anomalia na Umidade do Solo - Mensal



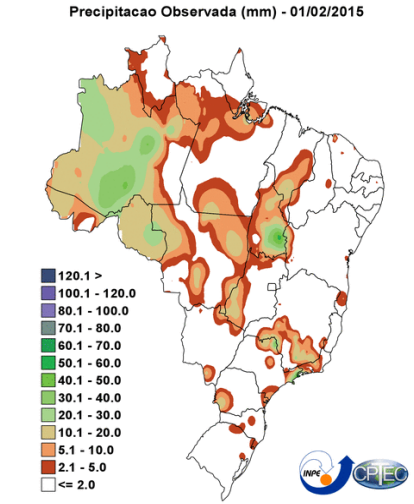


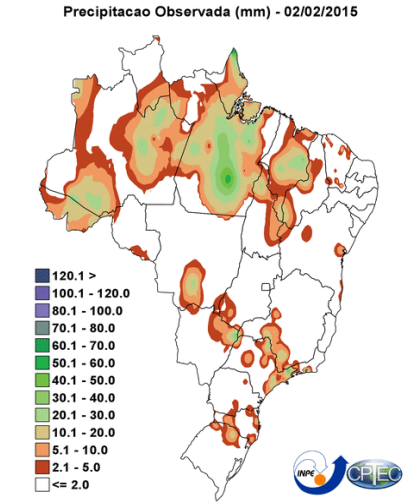
Anomalia de Umidade no solo, dez/14 com déficit em relação a média de cerca de 140 mm nas principais bacias do SE/CO/NE. Isso significa que, em tese, para se recuperar a condição de vazão média das bacias teríamos que ter no mínimo 140mm de chuva acima da média nas bacias.

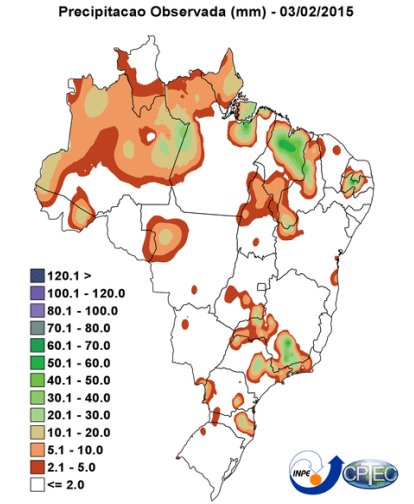
Observação: A Evapotranspiração em condições mais secas tende a ser maior que a média.

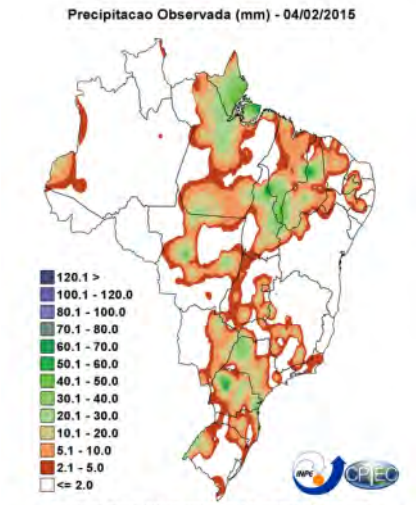
FONTE: CPC/NOA

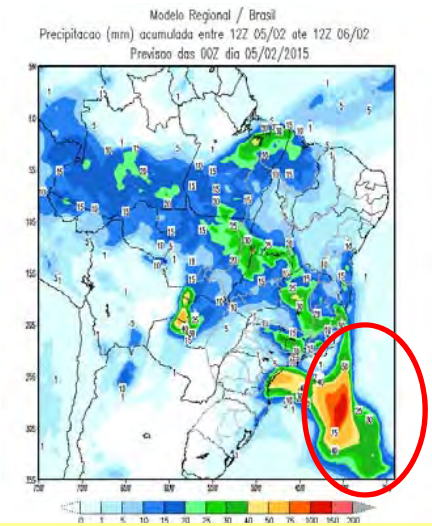
Previsão Diária - 04/fev/15

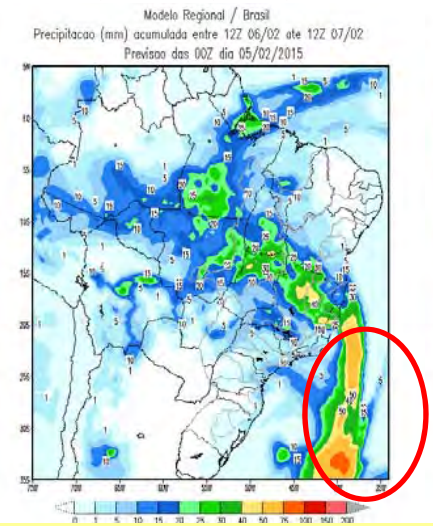


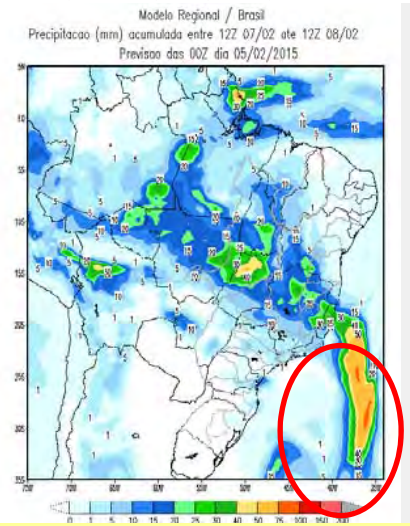


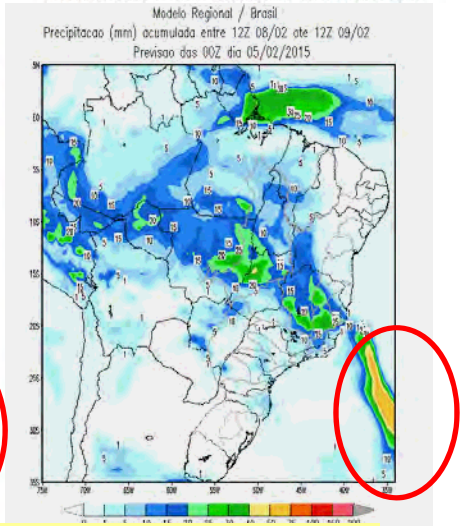






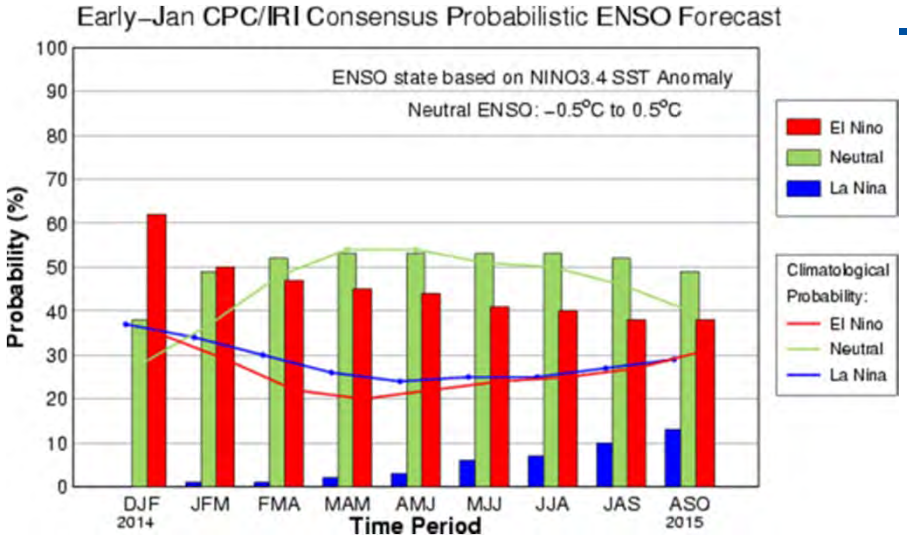


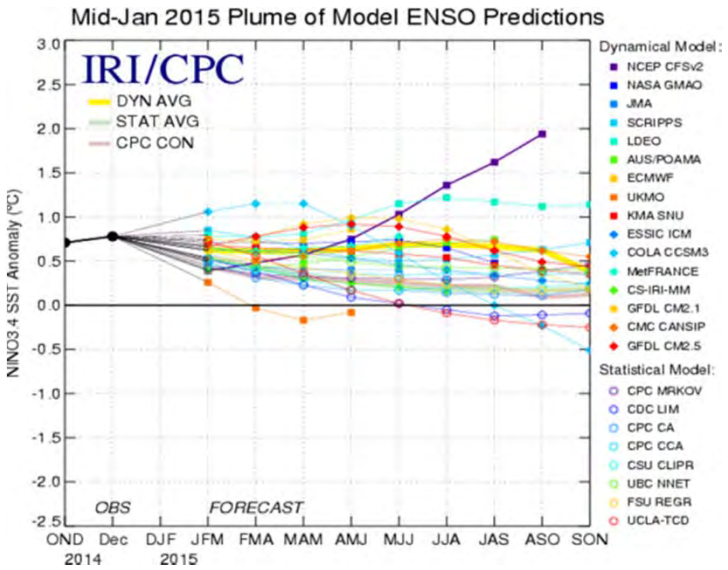


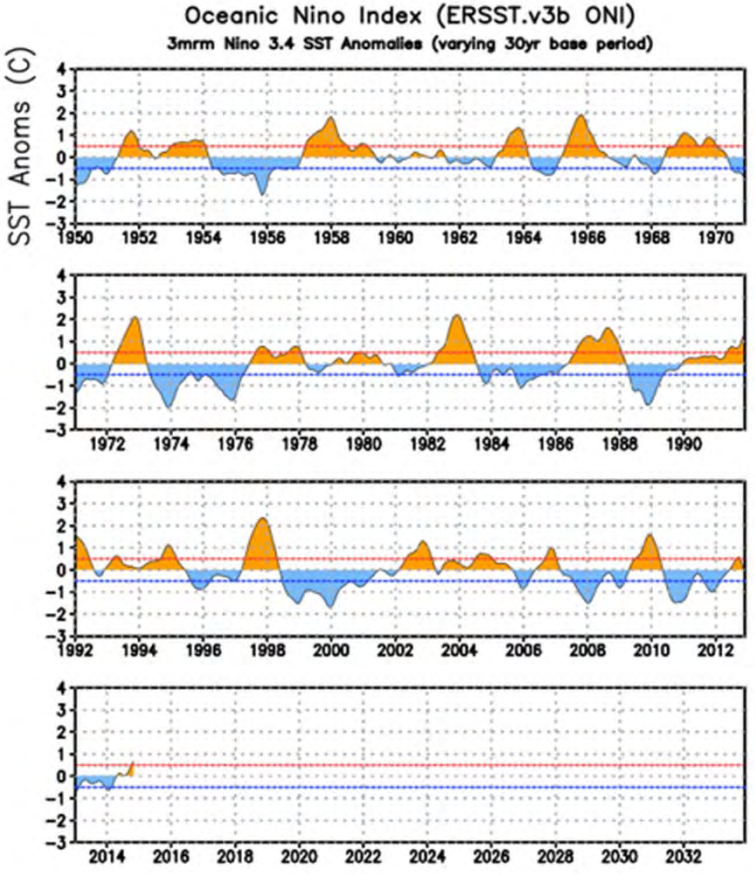


Existe a conversão da umidade atmosférica em chuva, porém fora da superfície terrestre, a precipitação está sendo deslocada para o oceano.

Condições do Pacífico



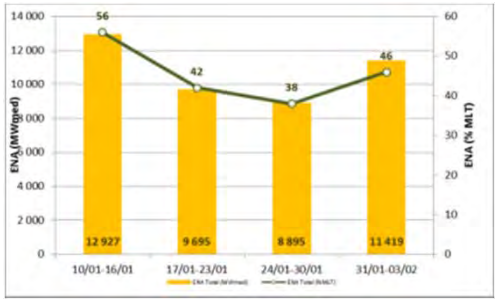




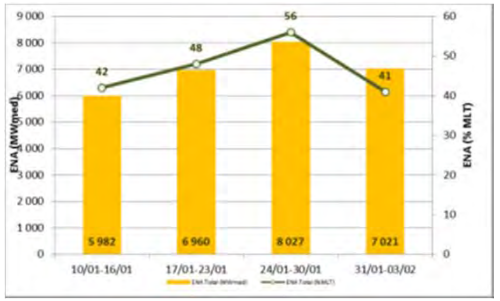
FONTE: CPC/NOA

Condições Hidroenergéticas das Bacias

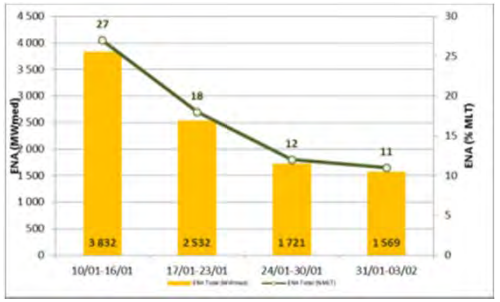
Baixo Paraná



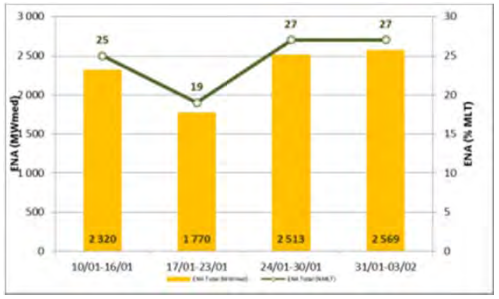
Tocantins



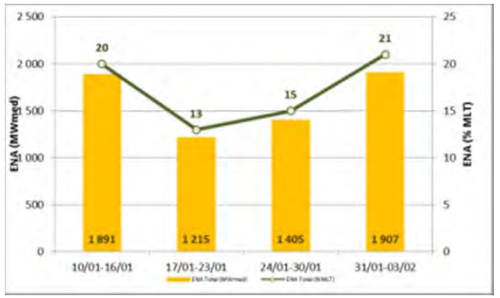
São Francisco



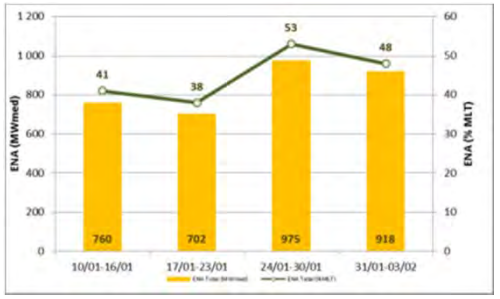
Paranaíba



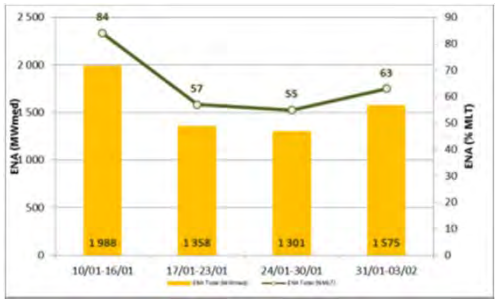
Grande



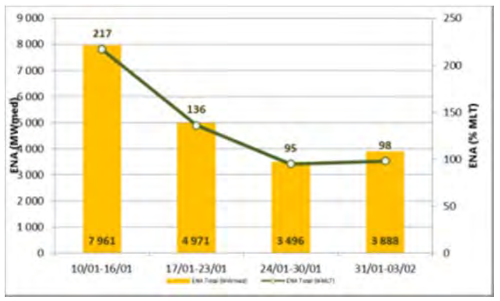
Tietê



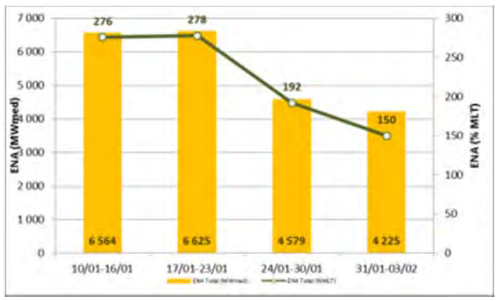
Paranapanema



Iguaçu



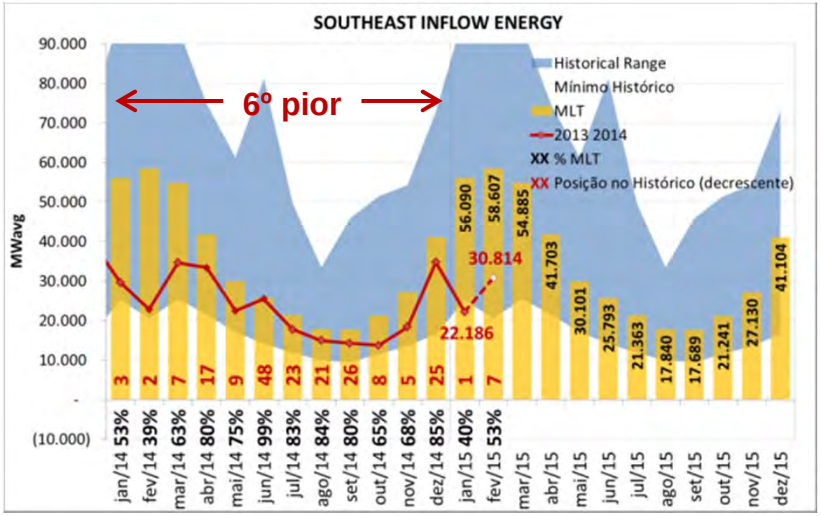
Uruguai

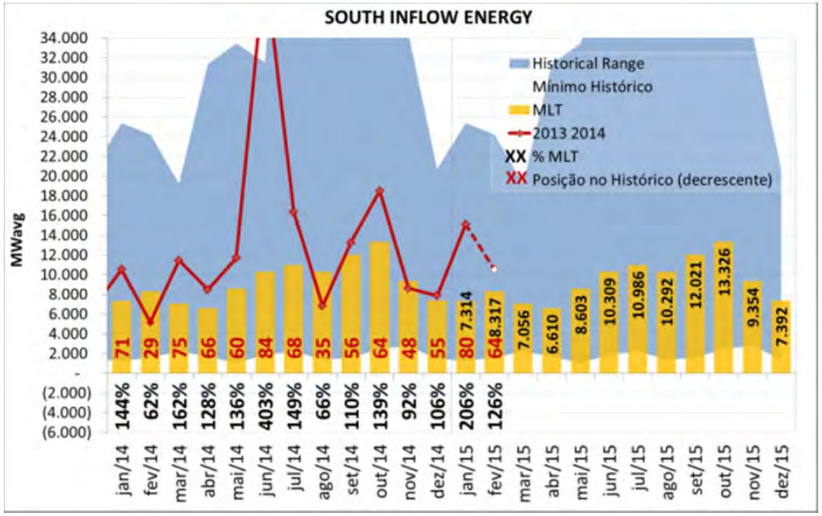


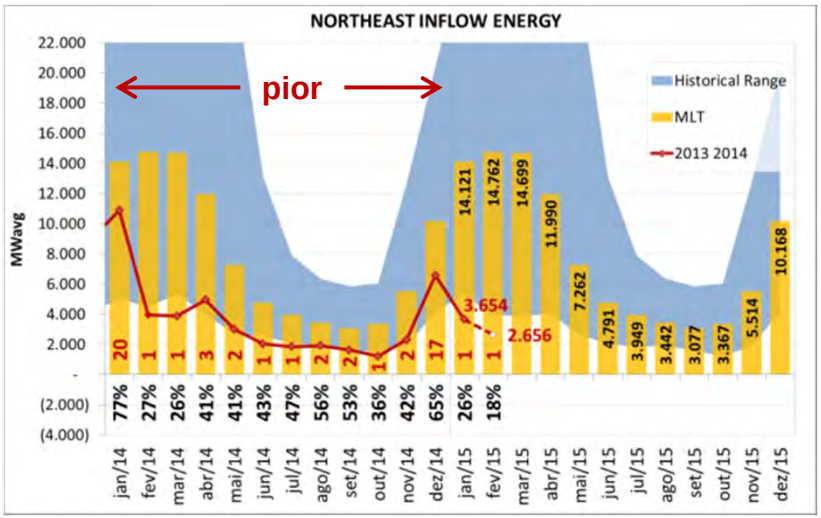
FONTE: ONS

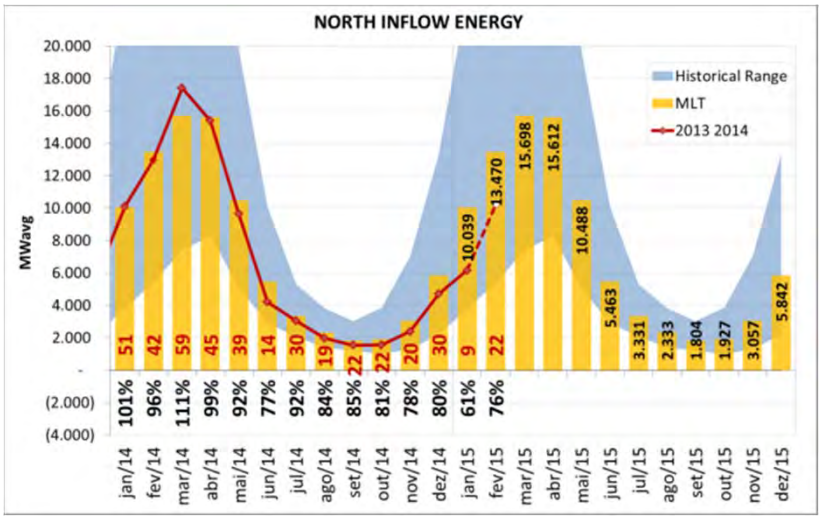
Tractebel Energia
GDF SUEZ

Energia Natural Afluente





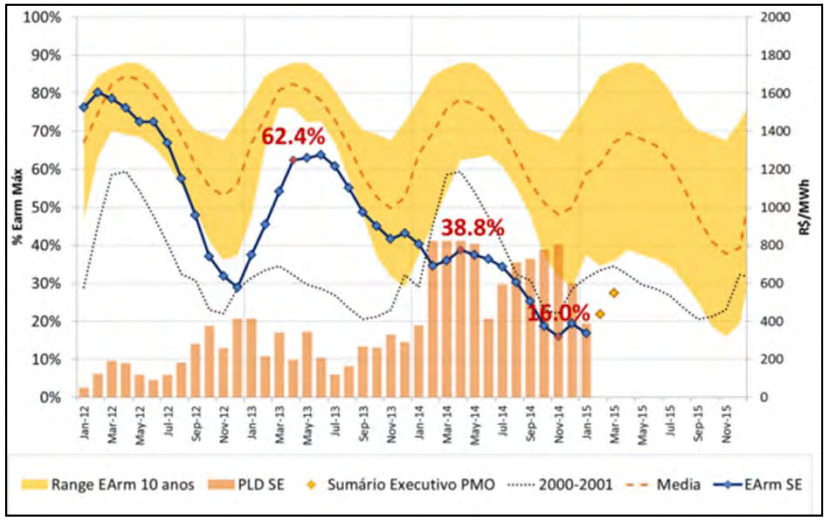




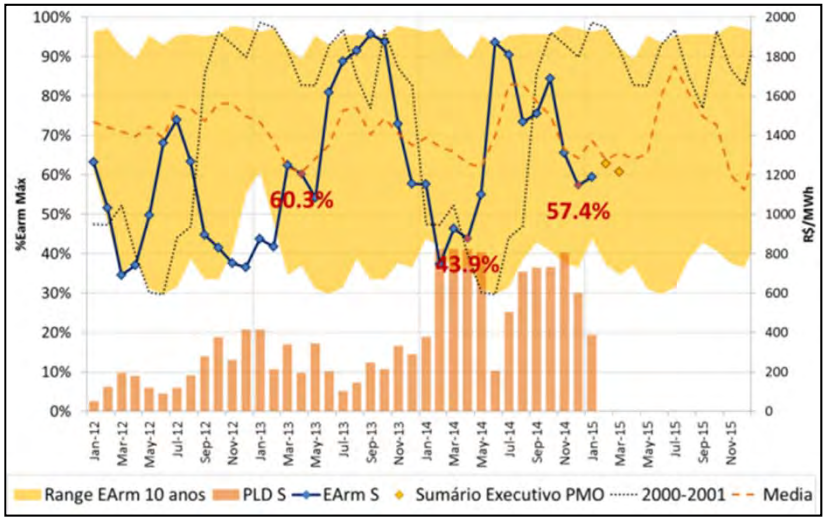
Tractebel Energia
GDF SUEZ

Armazenamento e PLD

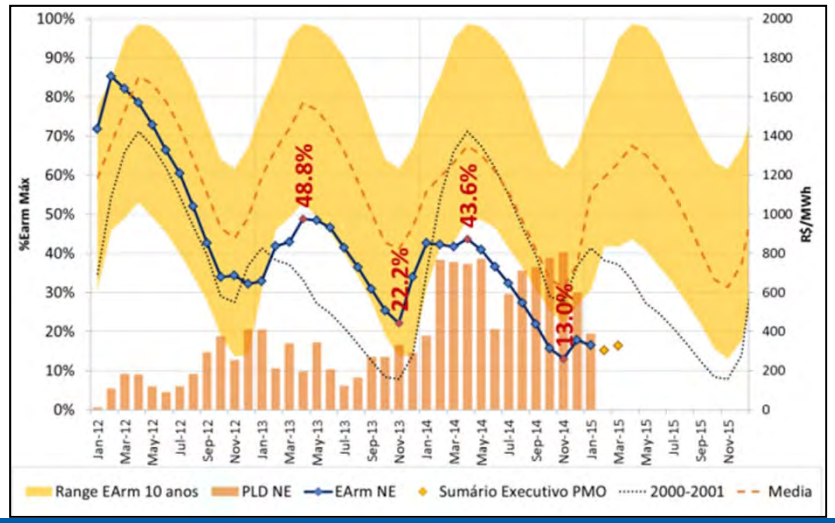
Sudeste



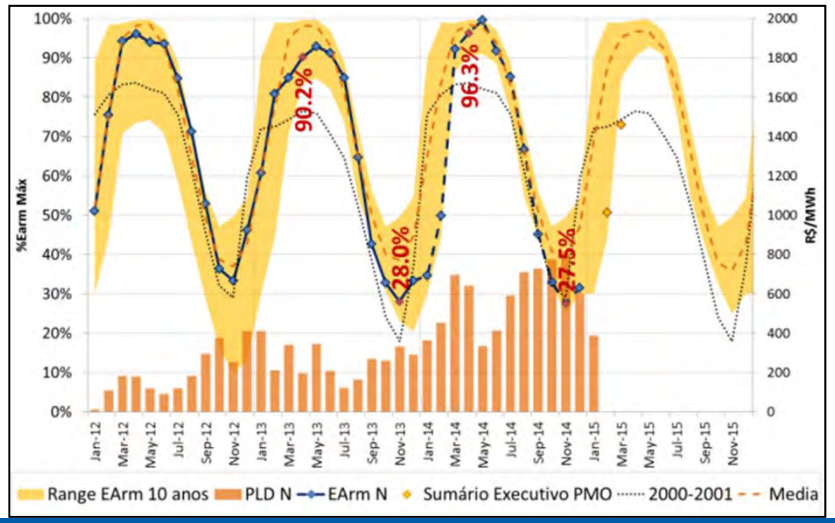
Sul



Nordeste

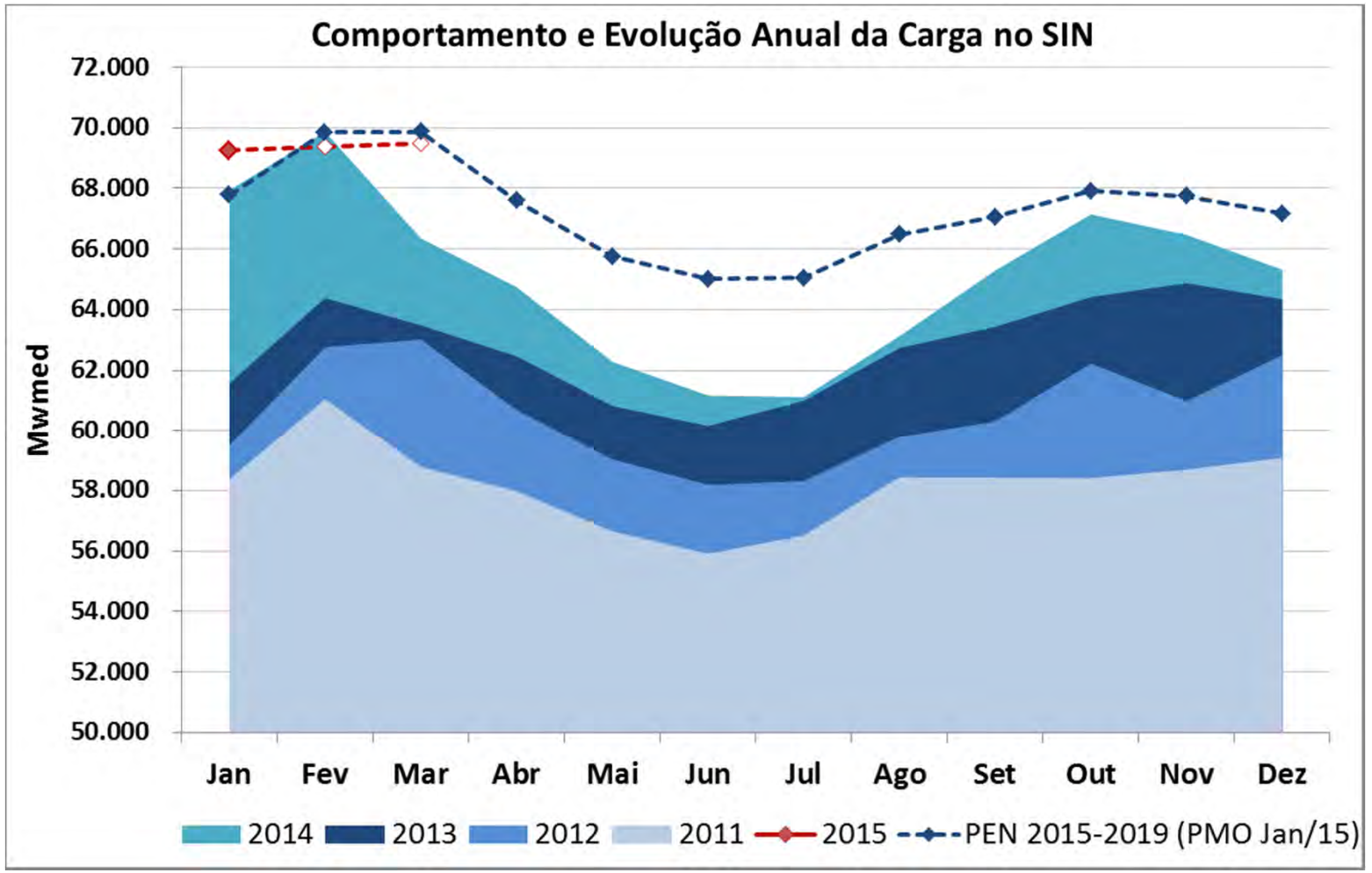


Norte



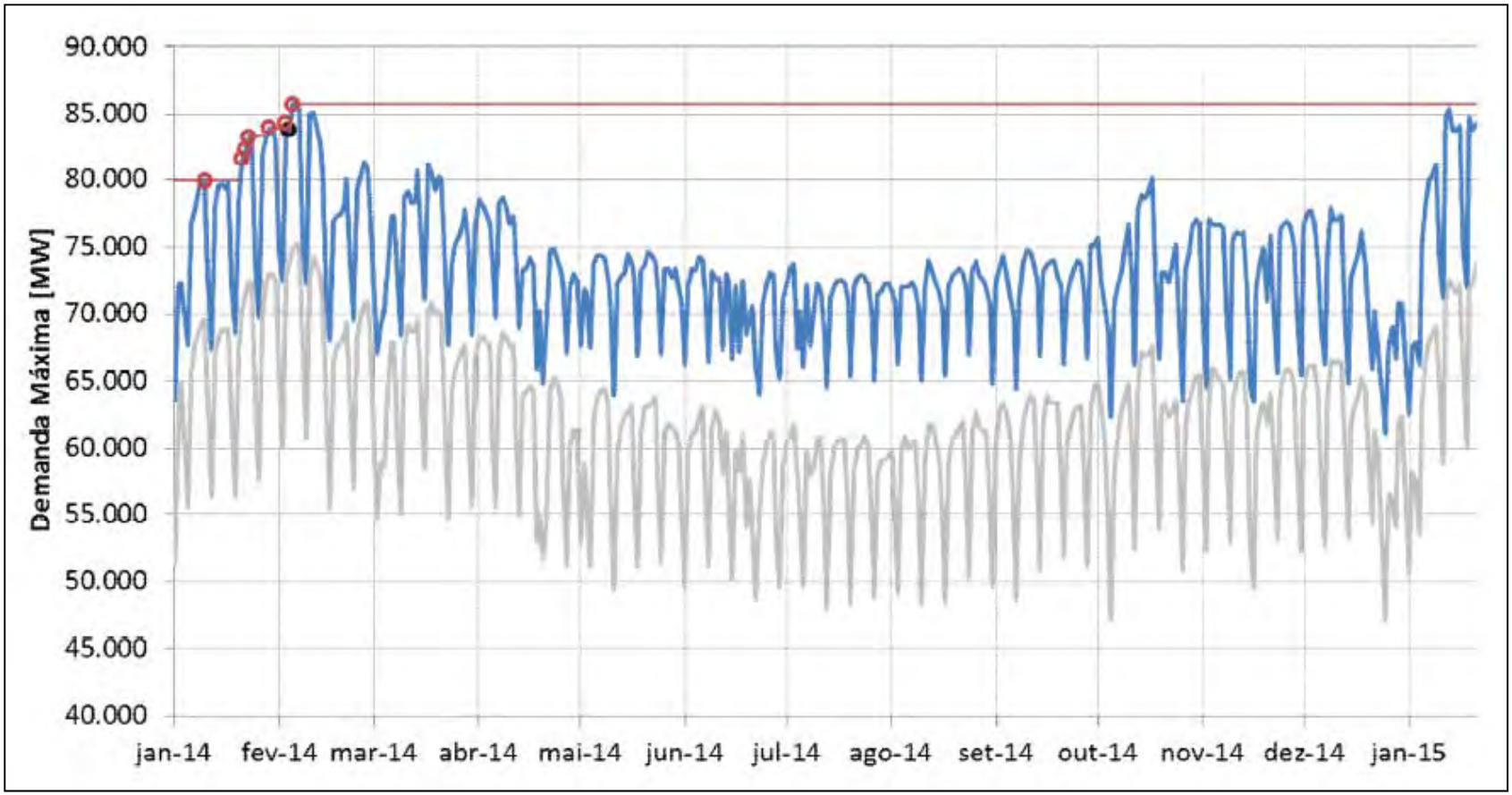
Tractebel Energia
GDF SUEZ

Evolução da Carga



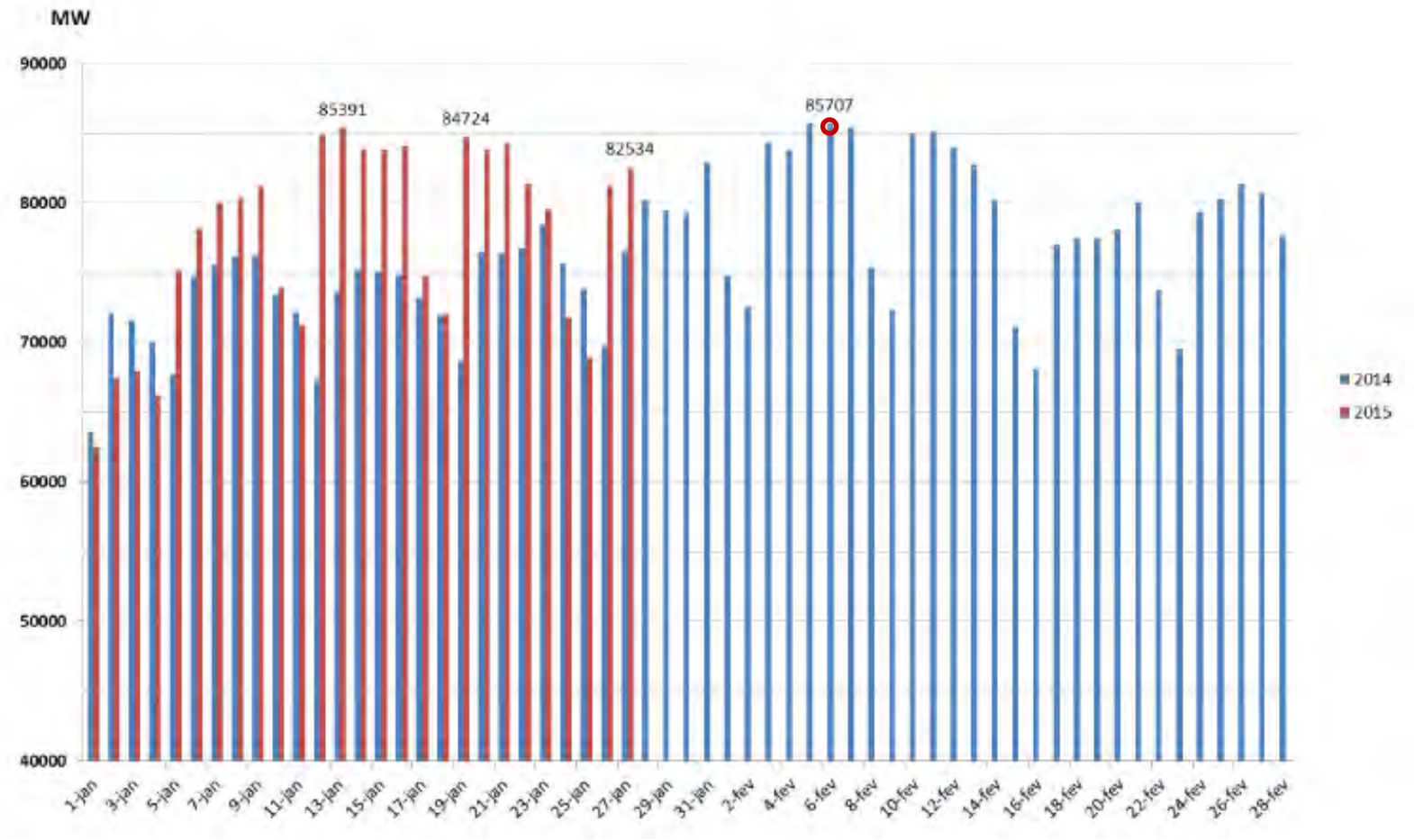
Tractebel Energia
GDF SUEZ

Evolução da Demanda (2014-2015)



FONTES: ONS/ABRAGE

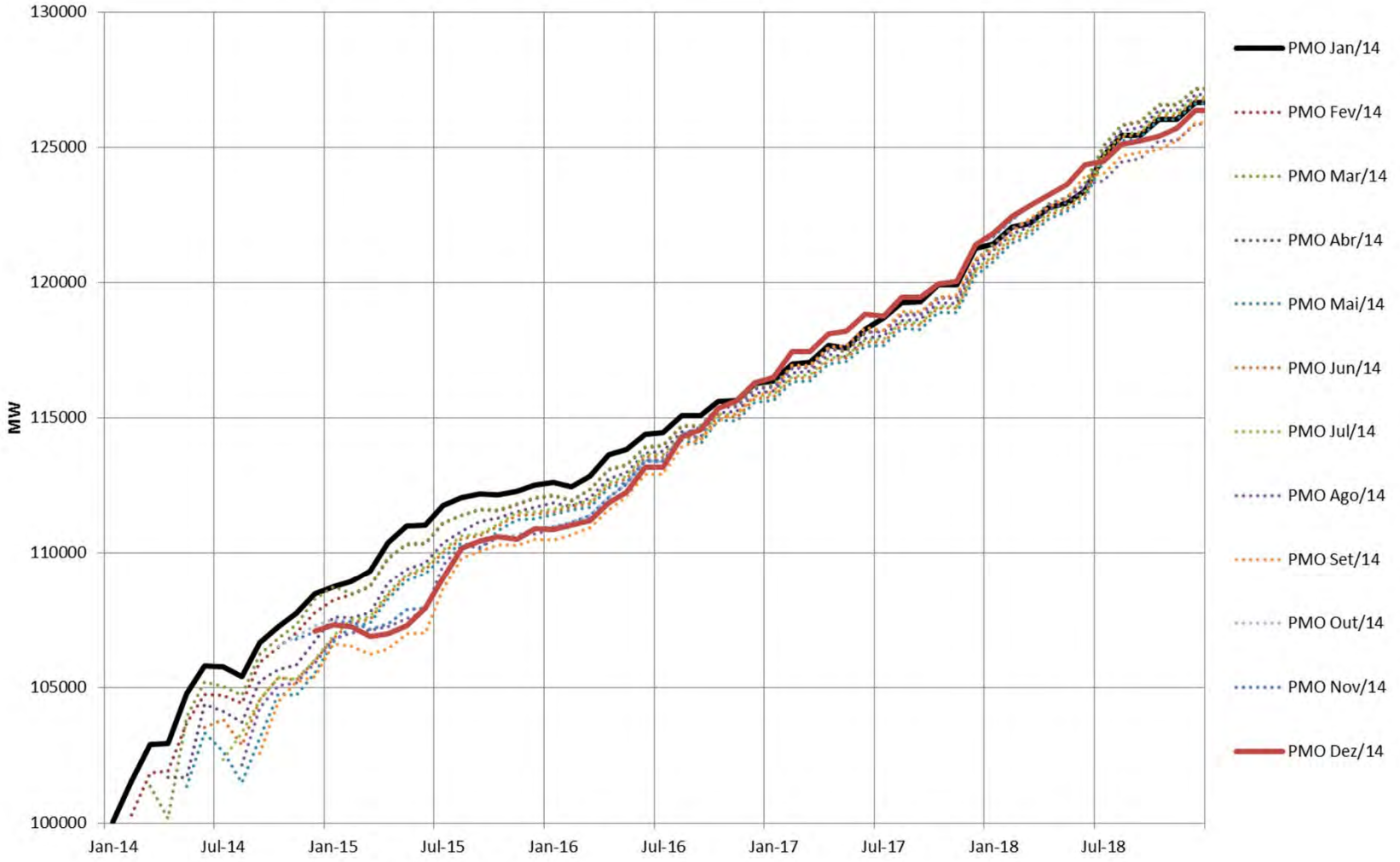
Evolução da Demanda (Janeiro 2014-2015)



FONTES: ONS/ABRAGE

Tractebel Energia
GDF SUEZ

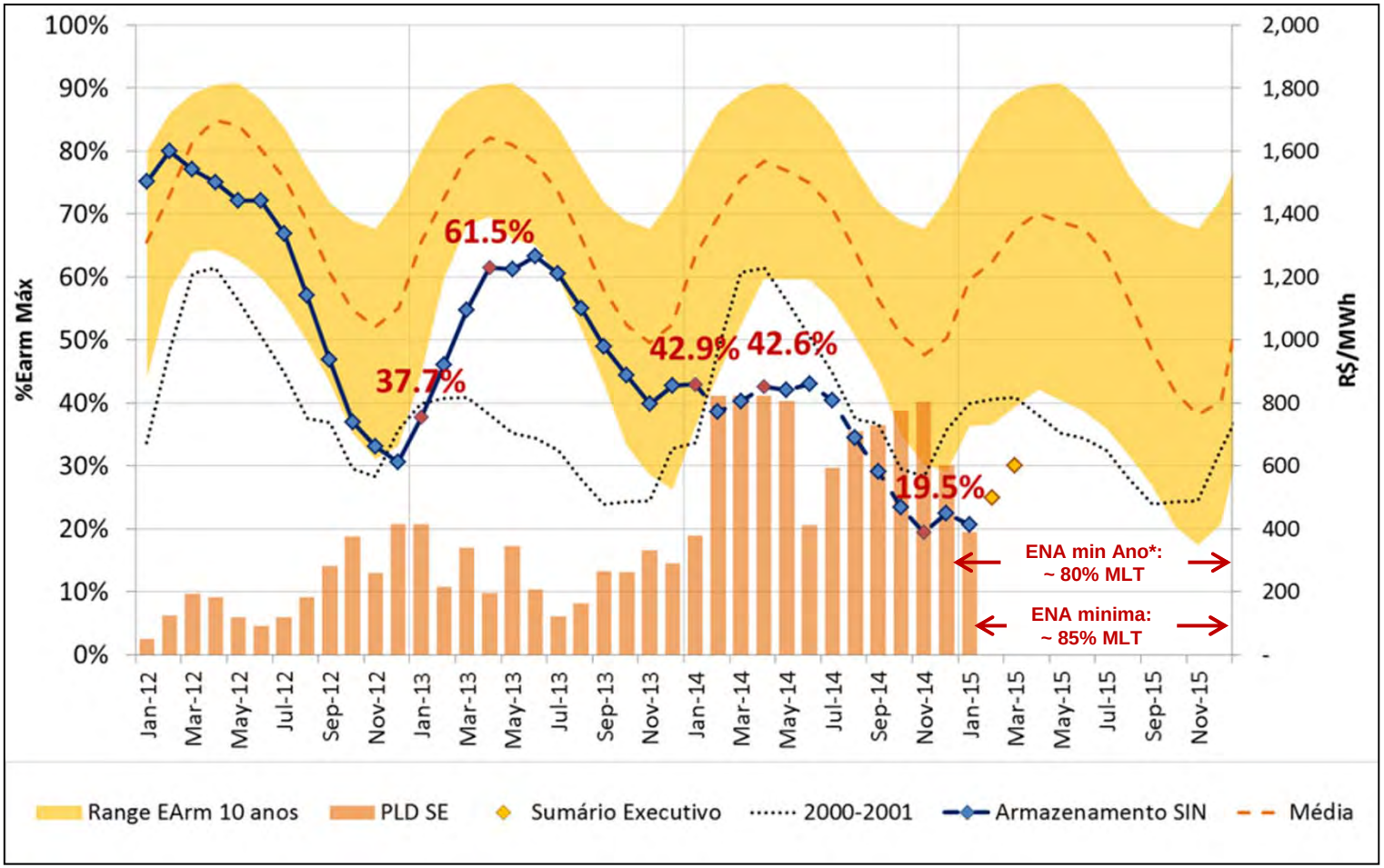
Evolução Hidrotérmica* – ONS/PMO (2014)



* UHE (Potencia) + UTE (Disponibilidade - descontando Manutenções e TEIF)

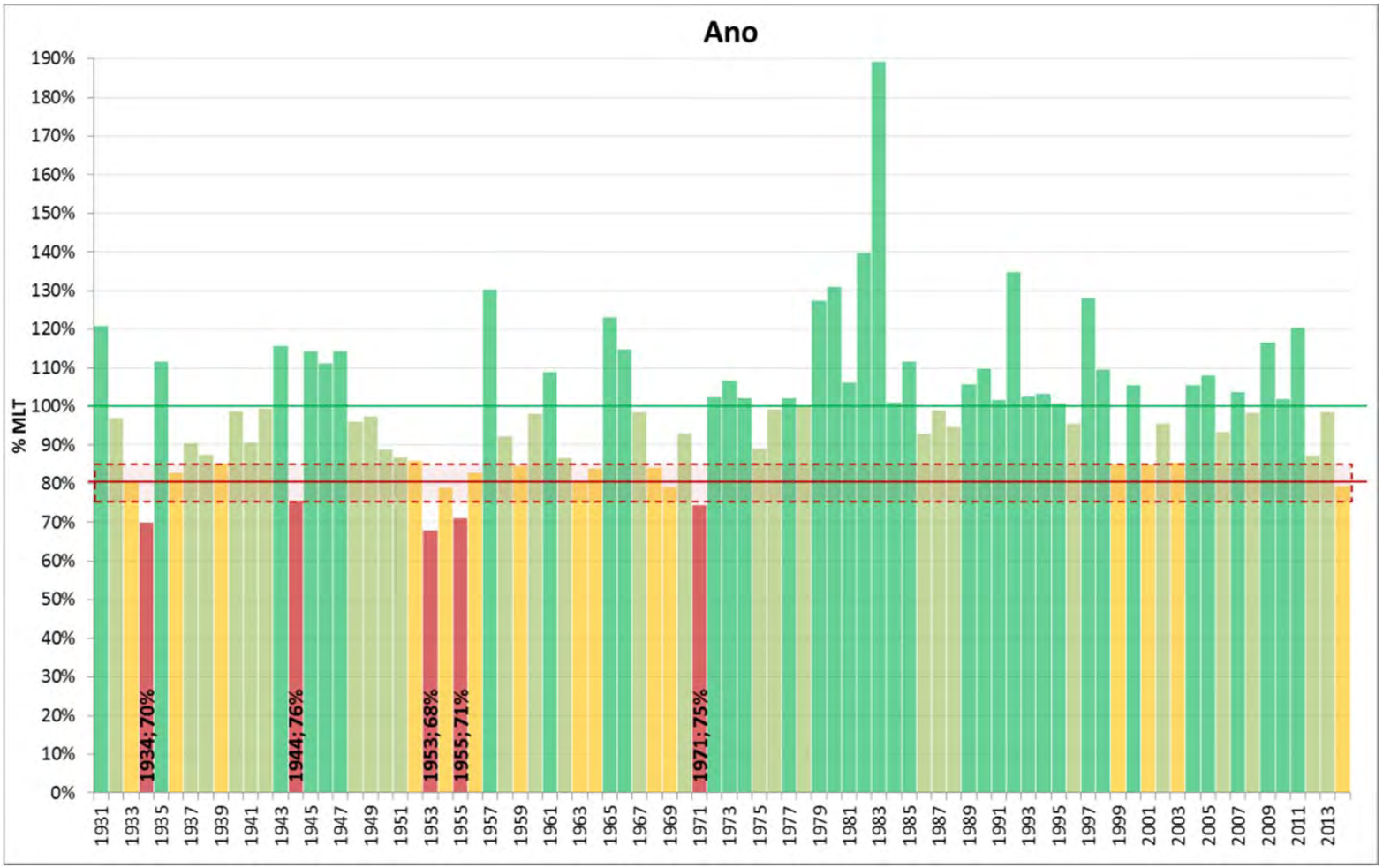
Tractebel Energia
GDF SUEZ

Armazenamento (SIN)



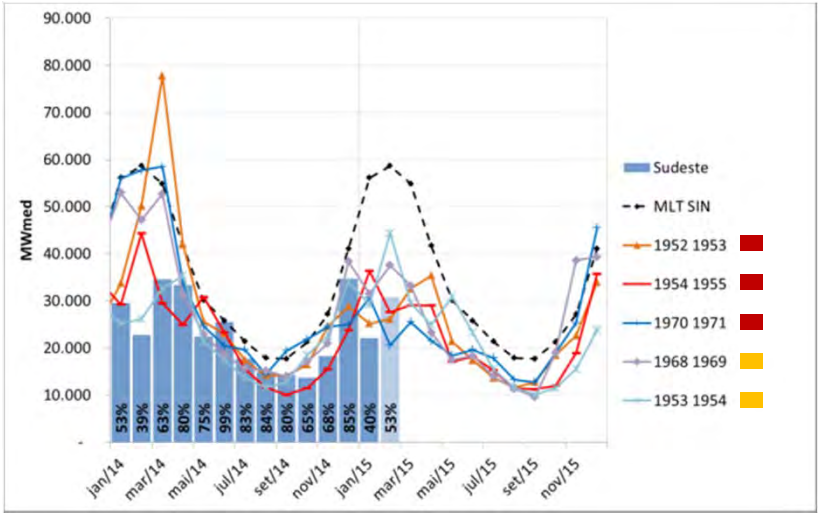
* ENA mínima em 2015 para se atingir 10% do armazenamento em Nov/15. Variações na distribuição temporal e espacial das vazões que compõem a ENA média do SIN podem alterar os valores estimados para evolução dos armazenamentos em função de limitações de transmissão, perda de produtibilidade e possíveis vertimentos, em especial nos submercados Sul e Norte. A mesma ressalva vale para a Carga e Disponibilidade das usinas do SIN (base PMO Fev/15).

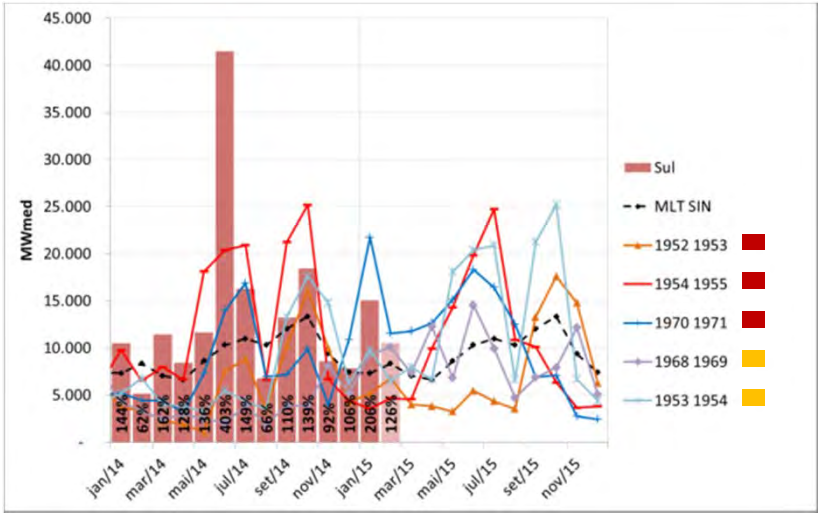
ENA mínima* (SIN)

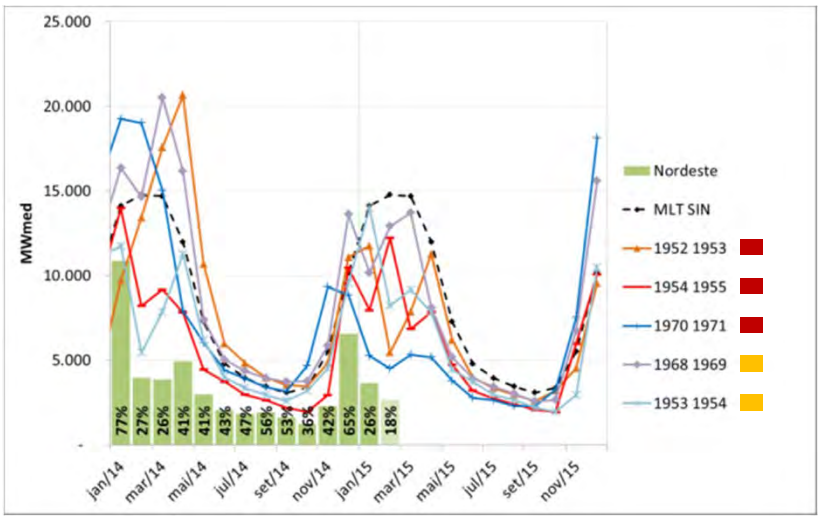


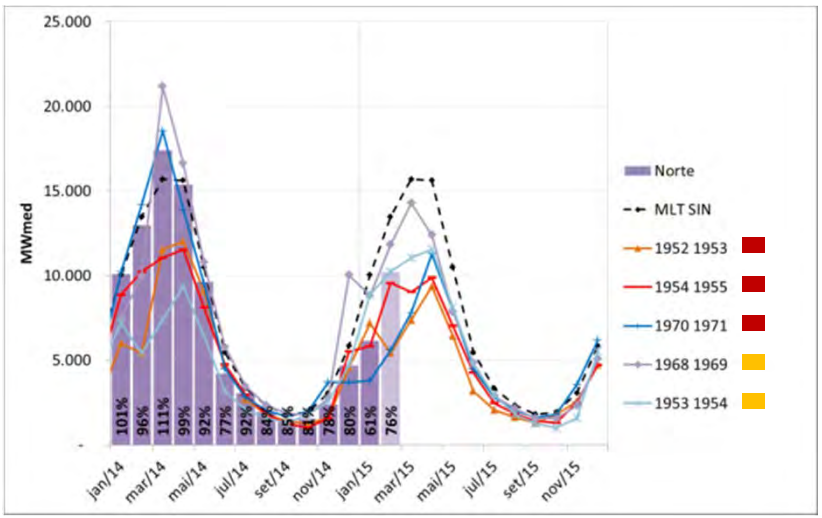
* ENA mínima para se atingir 10% do armazenamento em Nov/15. Variações na distribuição temporal e espacial das vazões que compõem a ENA média do SIN podem alterar os valores estimados para evolução dos armazenamentos em função de limitações de transmissão, perda de produtibilidade e possíveis vertimentos, em especial nos submercados Sul e Norte. A mesma ressalva vale para a Carga e Disponibilidade das usinas do SIN.

ENAs críticas com Similaridade no Histórico



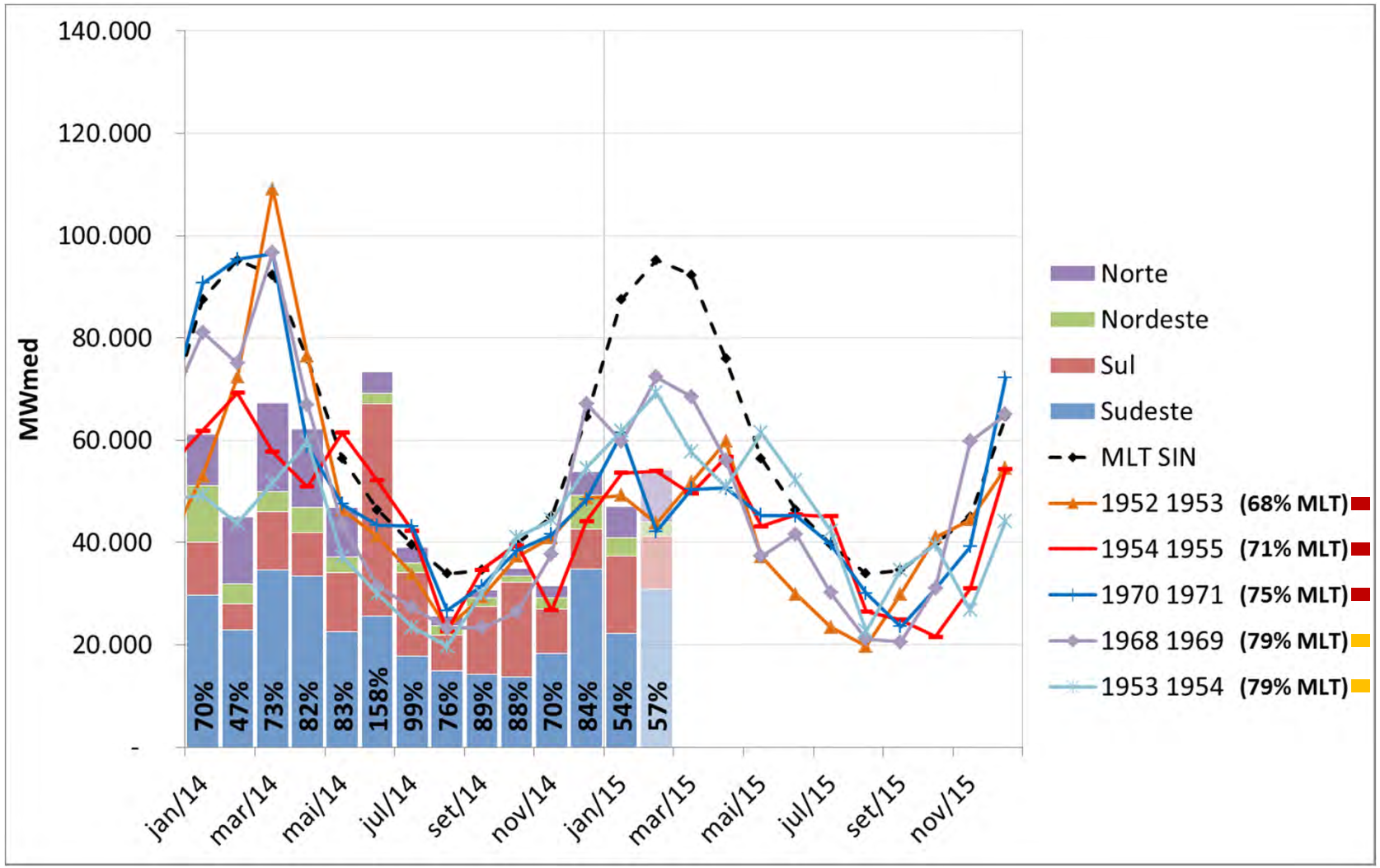






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