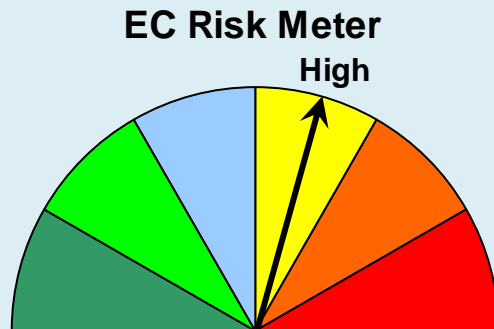




Low Hydro Lakes Planning Report

Week Ending 11 May 08 Update

Risk Meter



Source: Electricity Commission

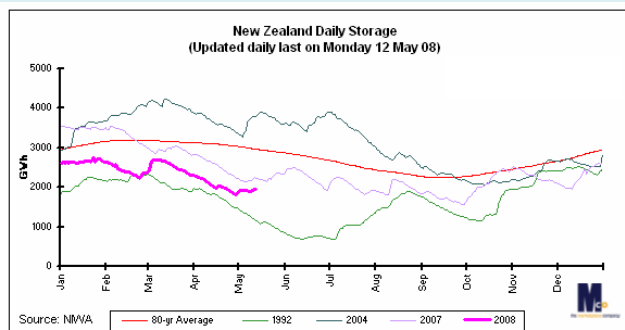
Hydrology

Storage

As at 11 May 2008

	Hydro Storage		Total Annual Generation 2007 (GWh)
	Actual (GWh)	% of Average	
New Zealand	1,841.9	64%	41,053
North Island	327.3	113%	23,969
South Island	1,514.6	59%	17,084

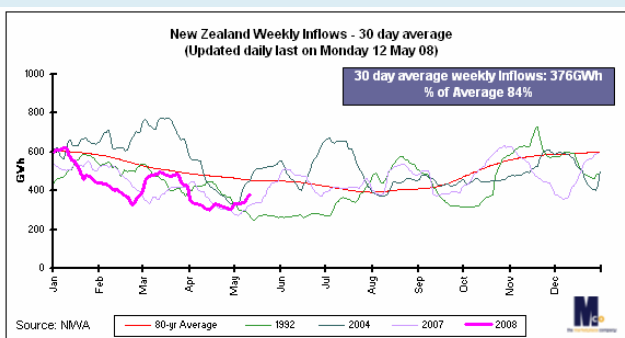
Source: Transpower/NIWA



Source: NIWA

Source: Mco/Niwa (<http://www.electricityinfo.co.nz/comitFta/ftaPage.hydrology>)

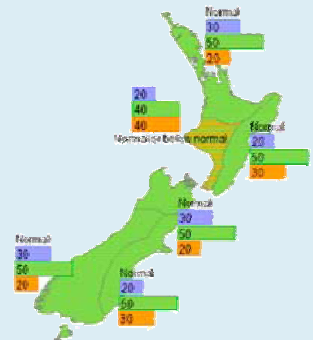
Inflows



Source: Mco/Niwa (<http://www.electricityinfo.co.nz/comitFta/ftaPage.hydrology>)

Rainfall Prediction April-June

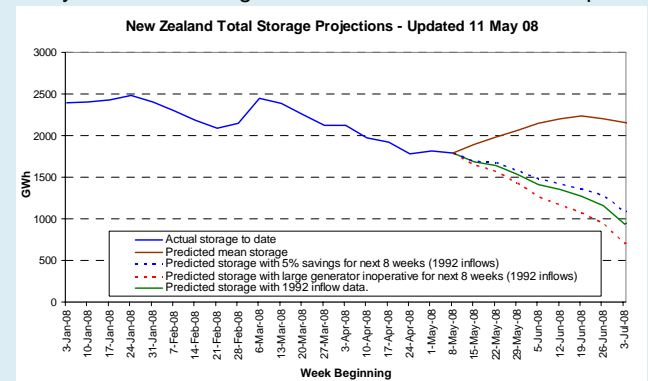
Air temperatures are very likely to be above average in many regions. Rainfall is expected to be near normal in most places, but normal or below in the west of the North Island.



Source: NIWA "The Climate Update No 106 April 08"

Hydro Storage Scenario

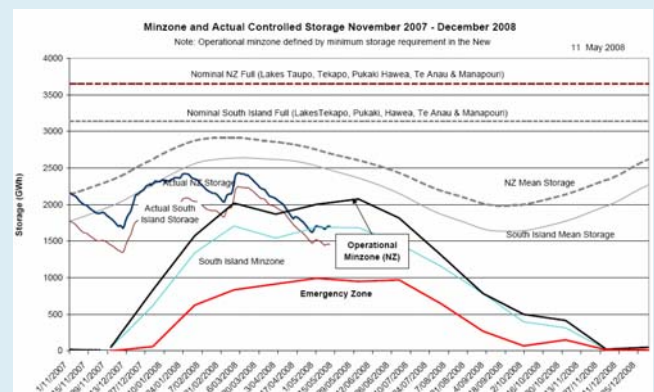
The following graph shows a projected storage scenario for the next 8 weeks. The projection assumes all available thermal plant is operating as baseload, such that it runs before all hydro, then the dispatch run-of-river hydro, and finally the use storage to meet demand where required.



Source: Transpower

Minzone Data

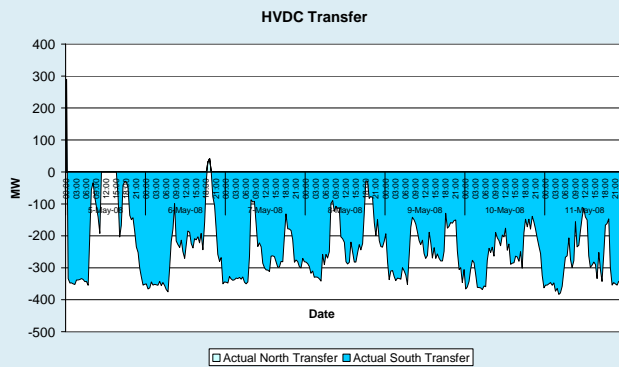
The Minzone analysis is calculated by the Electricity Commission, the basic assumption is to set all thermal plant as baseload, such that it runs before all hydro, then dispatch run-of-river hydro, and then use storage to meet demand where required.



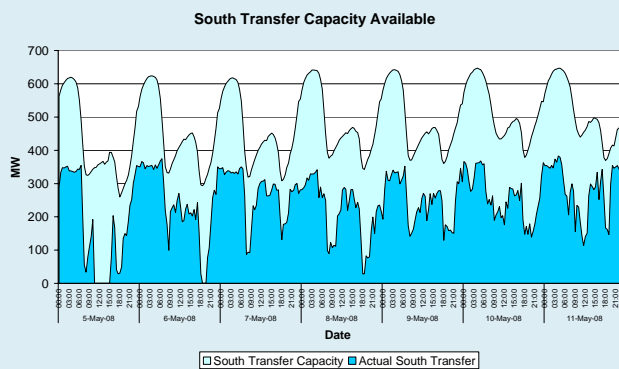
Source: Electricity Commission

Inter Island HVDC Energy Transfer

HVDC Transfer



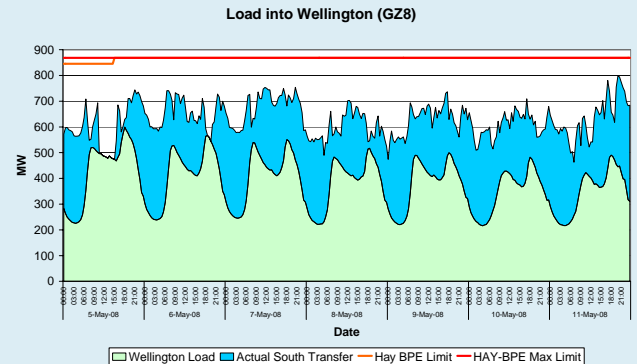
Source: Transpower



Source: Transpower

HVDC Possible Constraints

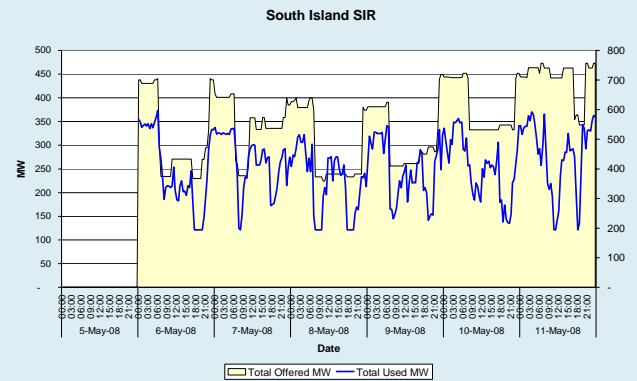
Transfer over the BPE-HAY Line



Source: Transpower

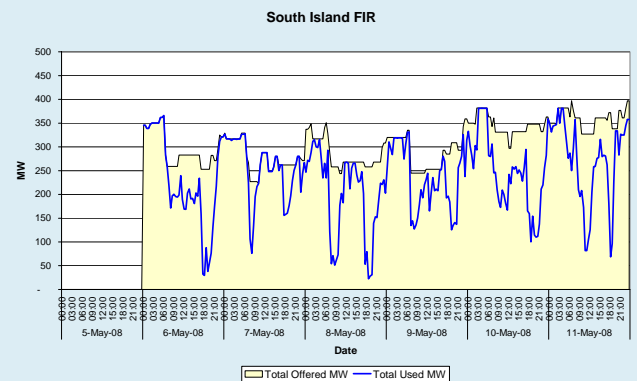
South Island Reserves

Sustained Instantaneous Reserves (SIR)



Source: Transpower

Fast Instantaneous Reserves (FIR)



Source: Transpower