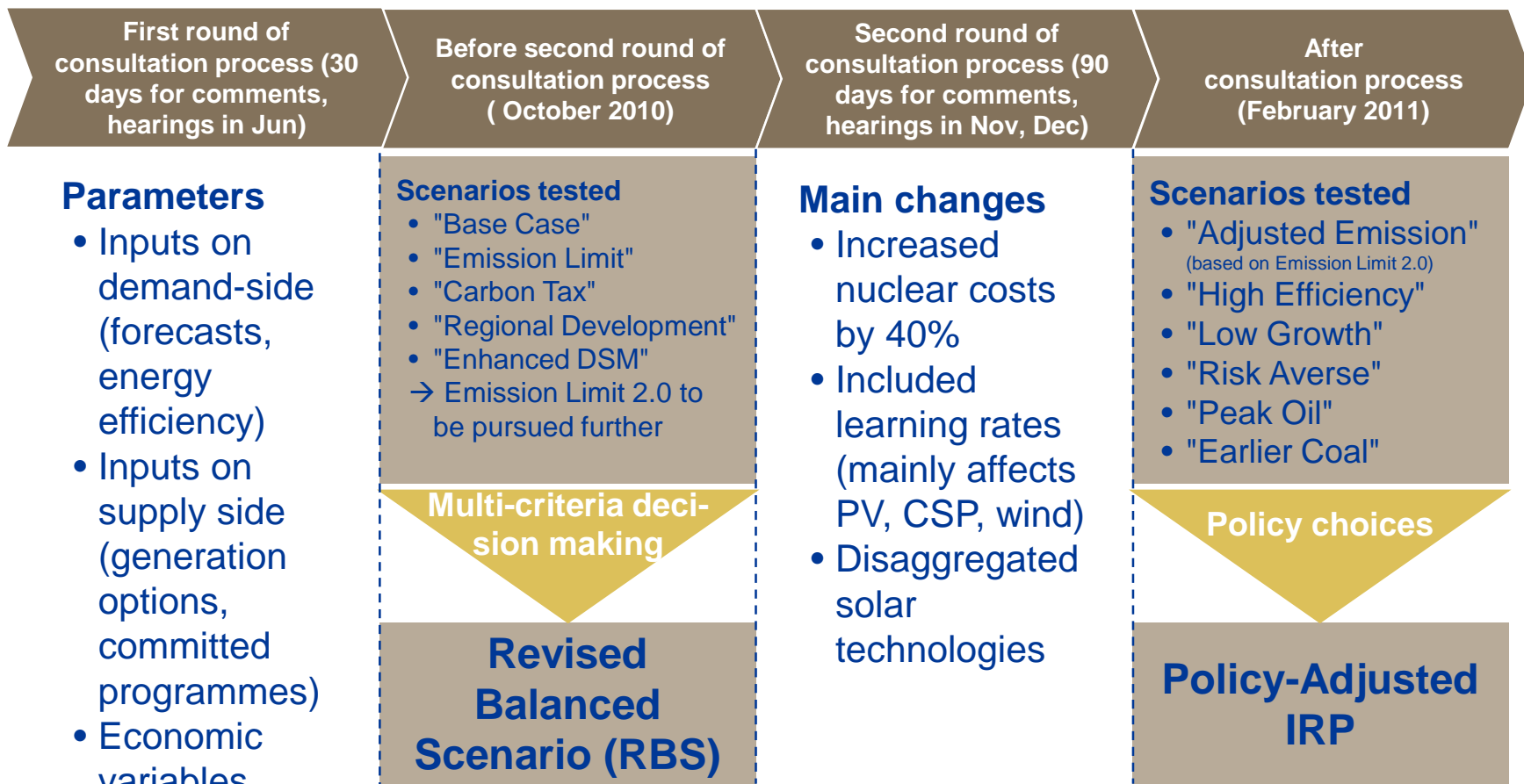


A decorative graphic on the left side of the slide, consisting of three overlapping circular frames. The top frame shows solar panels on a roof with industrial smokestacks in the background. The middle frame shows a large industrial facility with several tall, white cooling towers and a body of water in the foreground. The bottom frame shows a helicopter lifting a large electrical transformer onto a high-voltage power line tower.

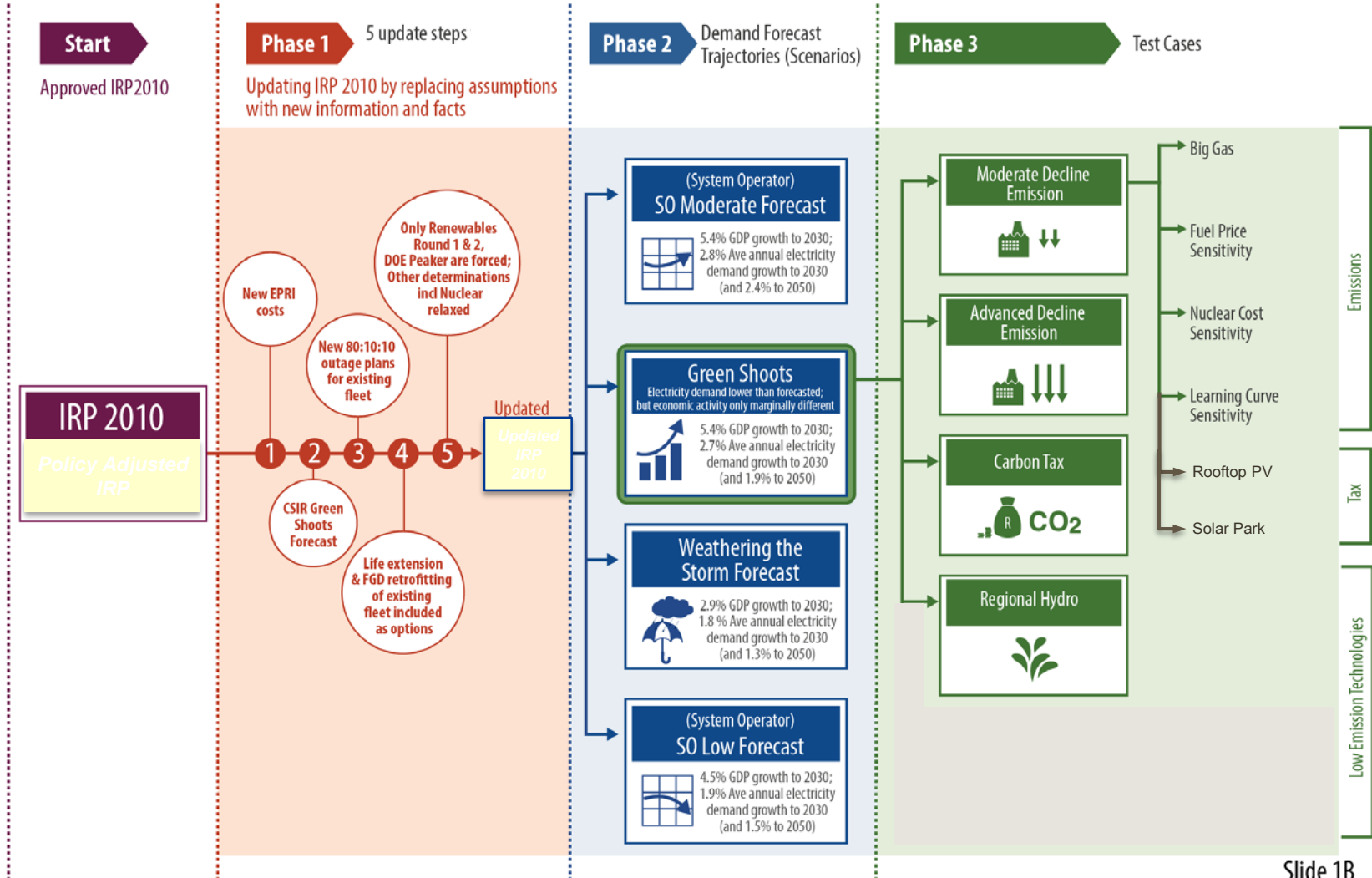
Integrated Resource Plan for Electricity

Energy Water Nexus Analysis workshop
29-30 April 2015

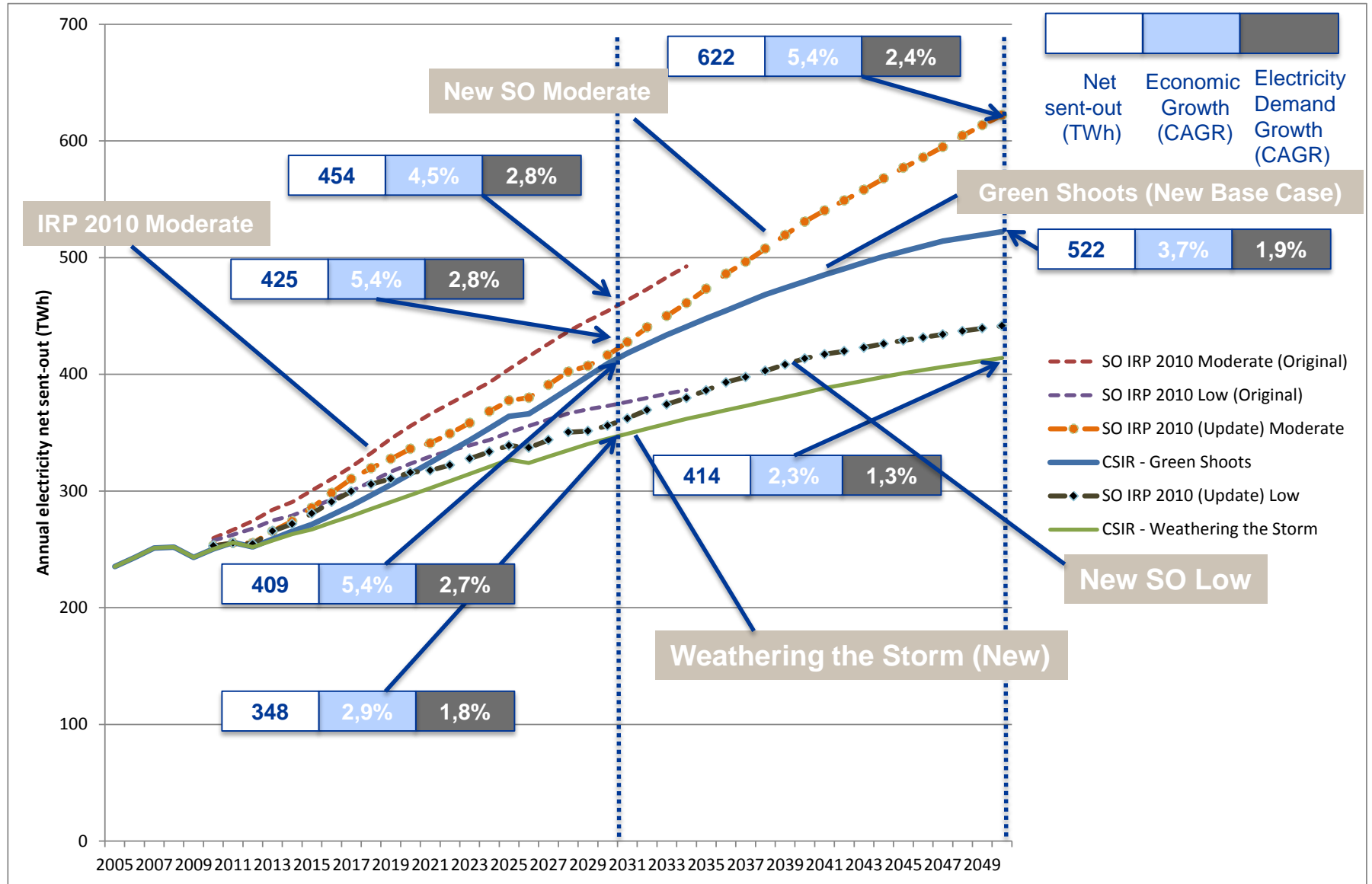


The Update process

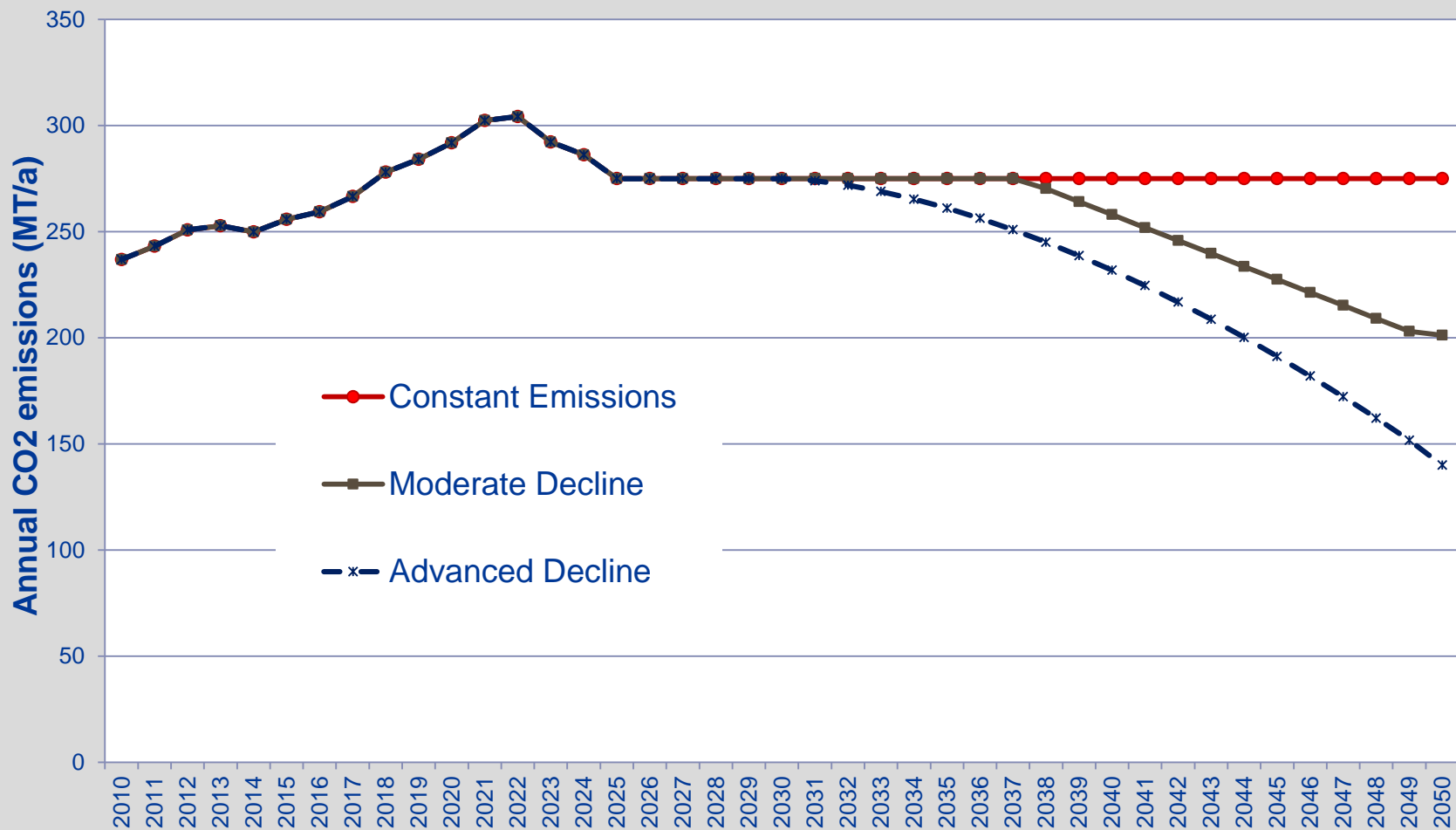
IRP 2010 - THREE PHASE UPDATE PROCESS



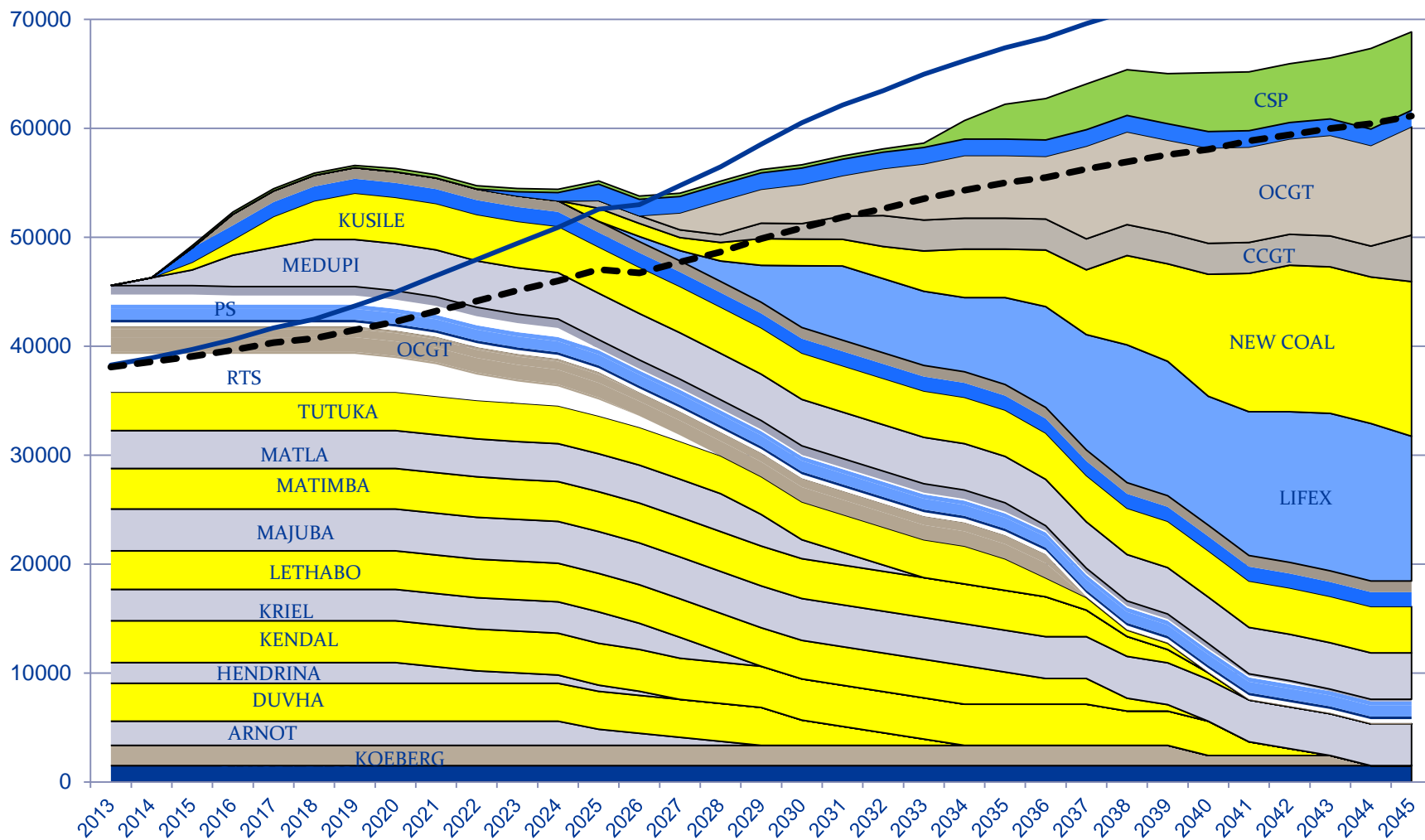
IRP Update Demand Projections



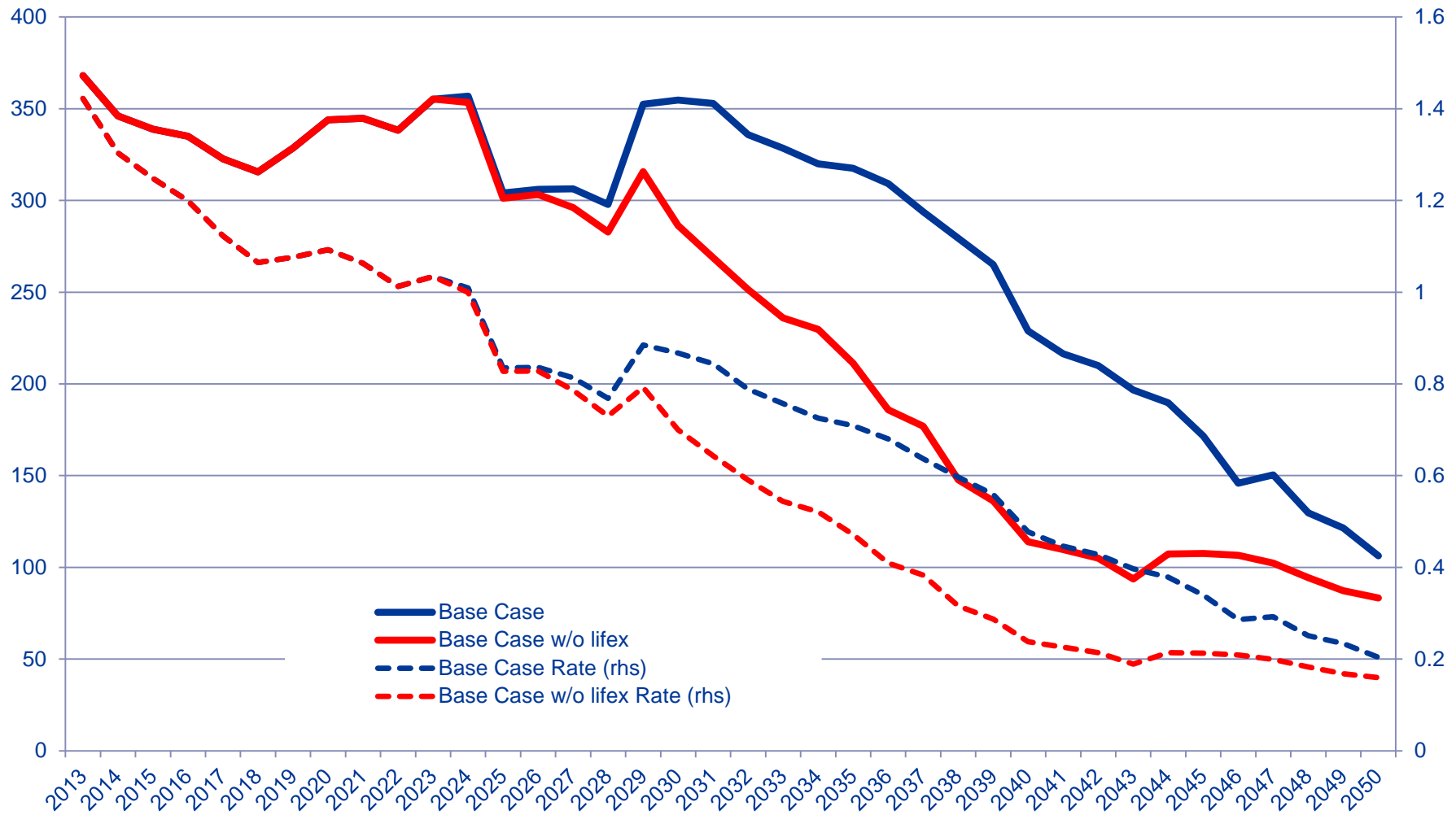
Constraints: Carbon mitigation



Capacity (Weathering the Storm)

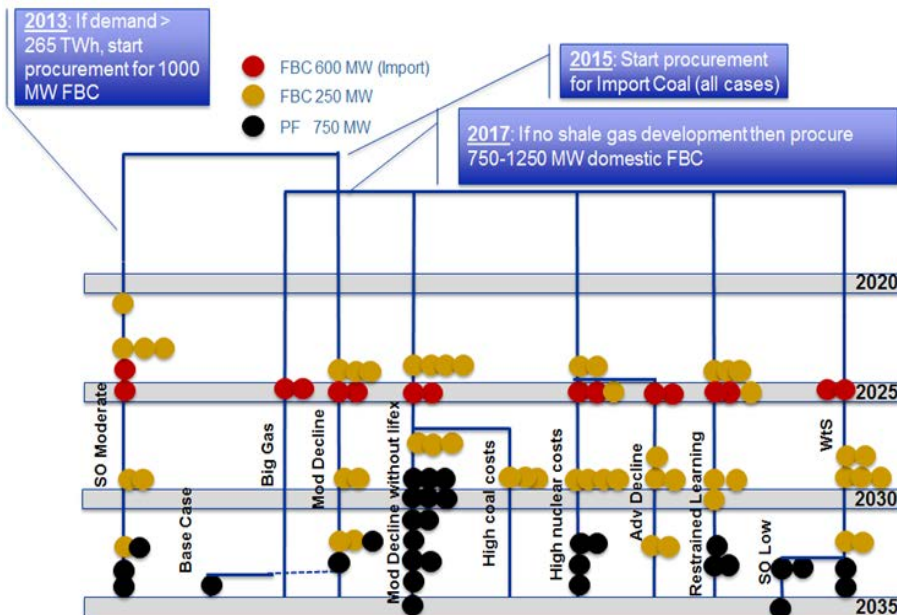
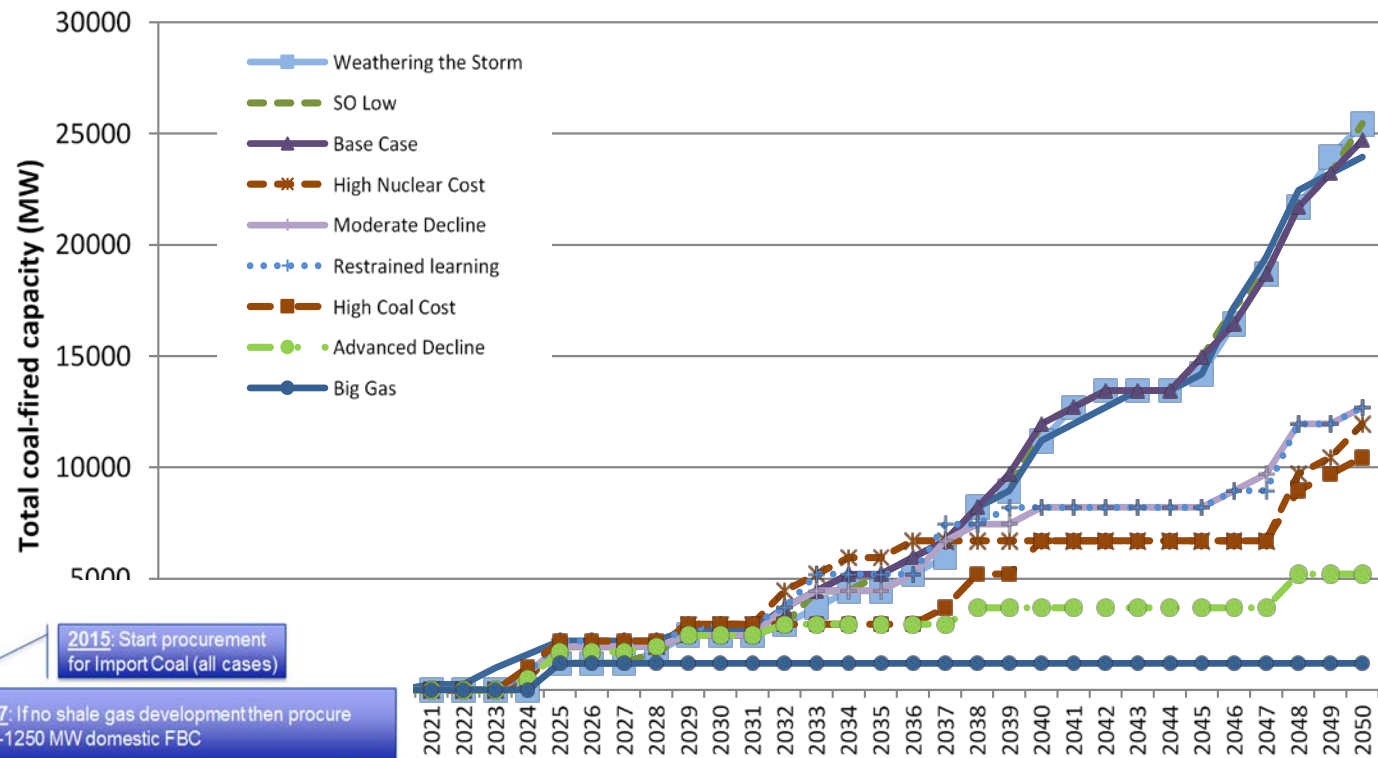


Water consumption and rates



Total new coal-fired generation under each scenario

- Procurement for fluidised bed combustion coal generators should be launched for a total of 1000-1500 MW capacity
- This is the preferable implementation of the “Coal 3” programme.



- Additionally regional coal options are attractive due to the emissions not accruing to South Africa
- Where this is priced competitive with South African options it should be preferred
- Additional analysis on extending the life of Eskom's existing fleet should be undertaken to firm up on costs involved and the environmental impacts