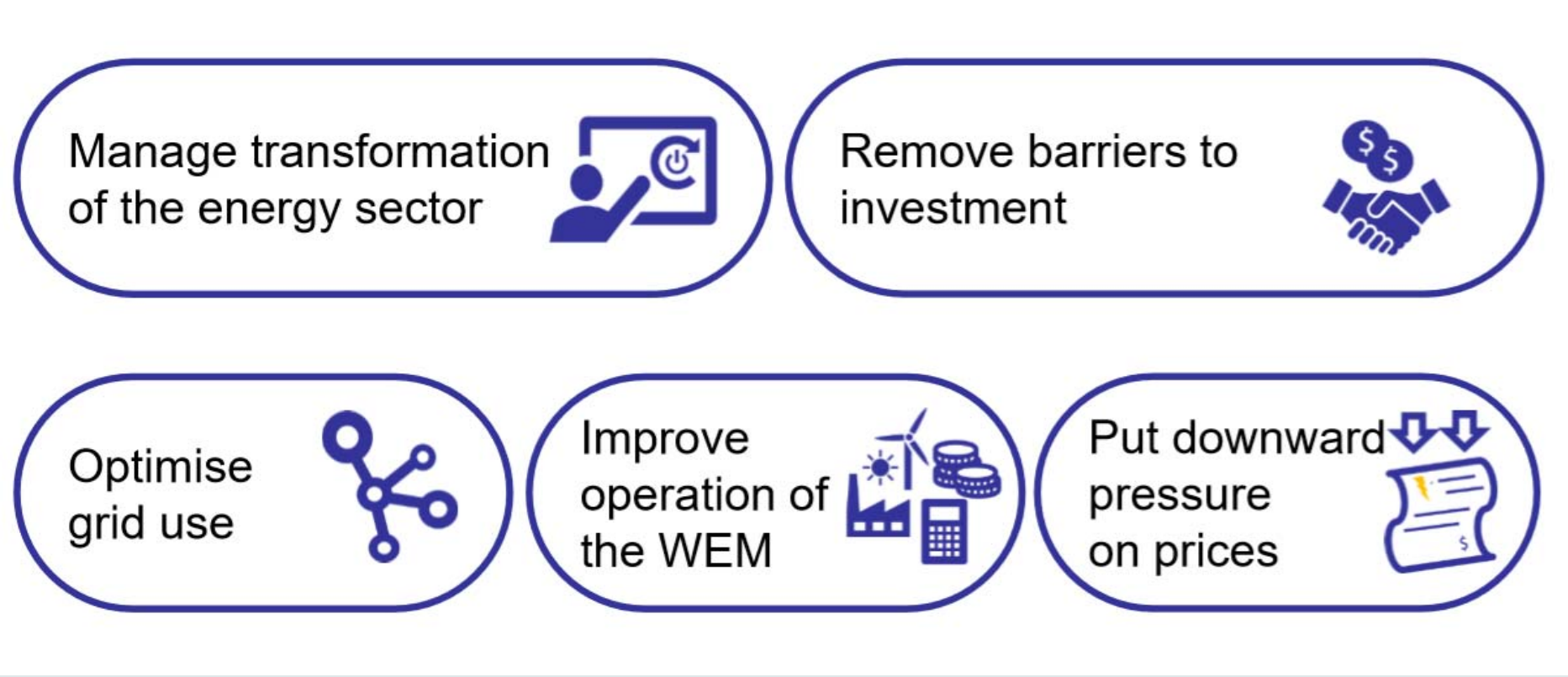
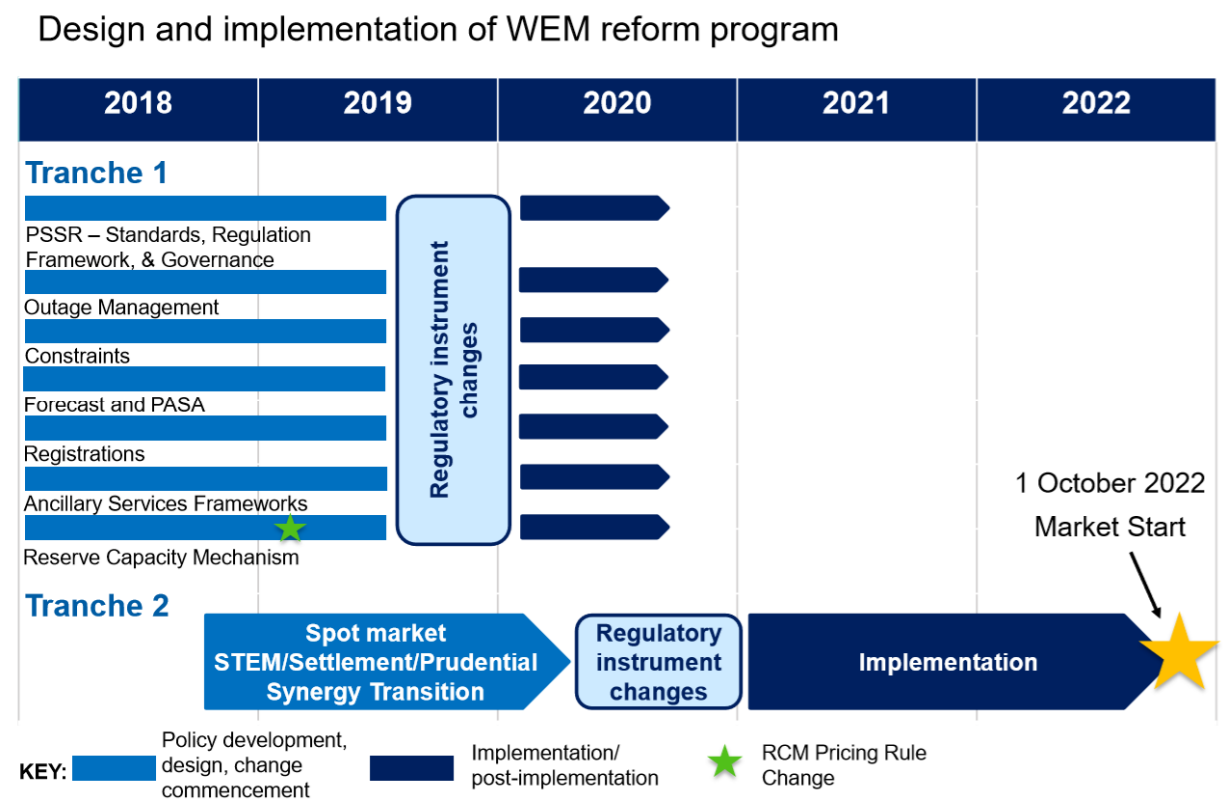
WEM Reform: Constraint Implementation Update

PSO-WG Meeting 3
November 2018

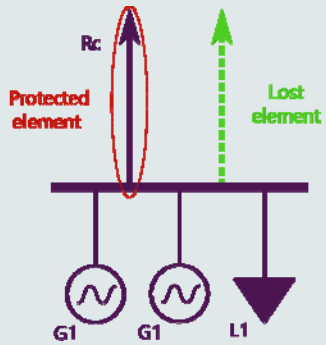
Aims of the Electricity Sector Reforms



Delivery Approach



Constraint technical framework



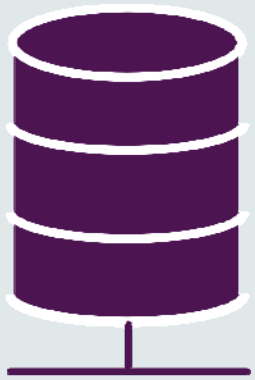
1. Power system model

Limit advice

f:(limit) y_1 y_2 ⋮ y_n

2. Constraint formulation

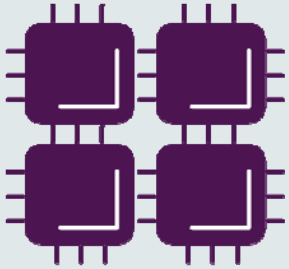
Constraint equations



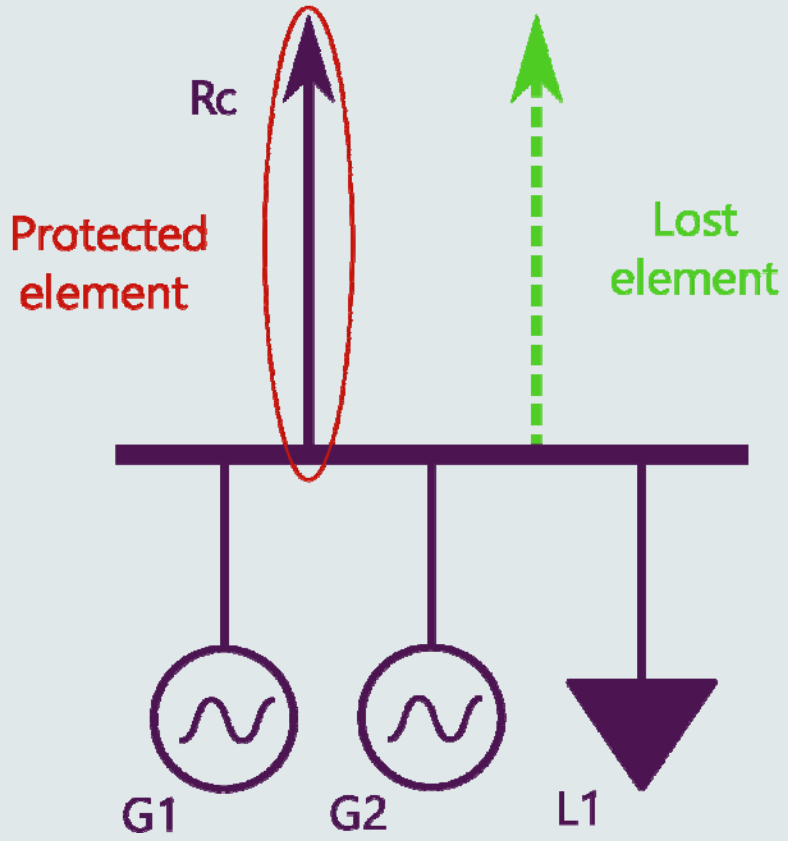
3. Constraint library

Constraint sets

4. Dispatch Engine

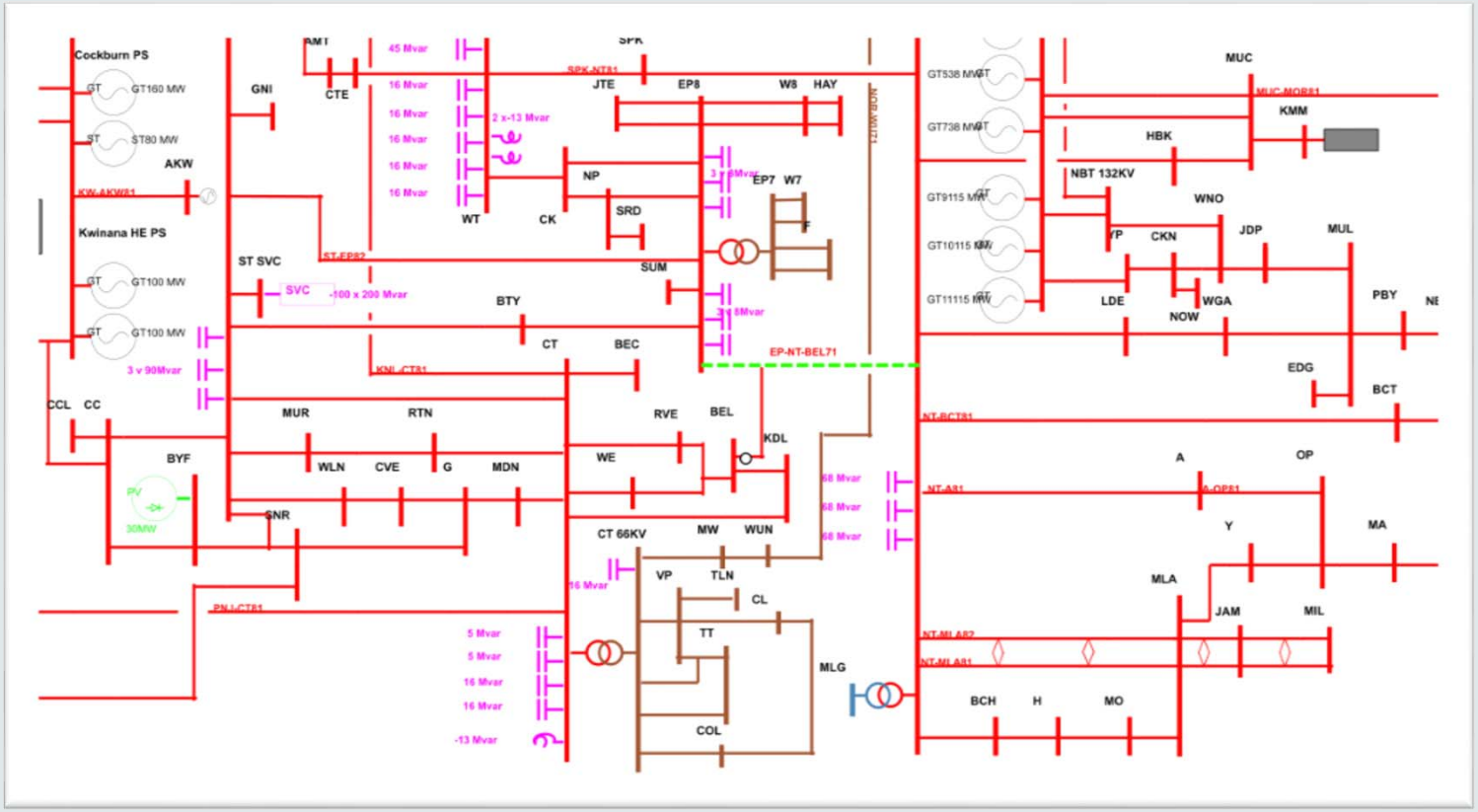


Constraint Concept



$$G1 + G2 \leq Rc + L1$$

Constraint Concept



The NEMDE Solution

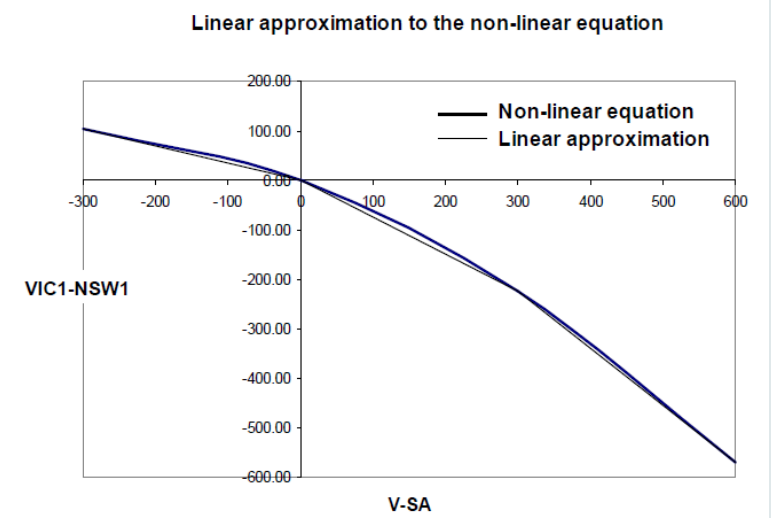
System scenarios ⊗ Network Limits

↓

Limit Advice

↓

Many dispatch constraint equations



Key Questions

1) How can we be sure that all appropriate scenarios and network limits have been considered?

   - "Sole discretion" of the Network Operator?

2) How should (and how much of) this information be communicated to:
   a) AEMO, for implementation in the dispatch process
   b) the market (or the public), for connection feasibility analysis and negotiation of network access