

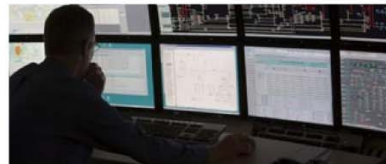
# Commissioning Generation: a System Operator Perspective Part C

System Operator Industry Workshops

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TRANSPower



SYSTEM OPERATOR

# Commissioning generation assets

- getting your generator installed does not mean project is complete
- getting generator commissioned and started-up successfully does
- generator projects typically engineering focused
- the engineering needs to meet the market

# Commissioning - **Asset**

## Planning

- generation owner initial approach (Account Manager)
- solution study reports (Grid Owner and System Operator)
- Planning ACS submitted (to System Operator)
- AOPO compliance issues
- initial commissioning discussions (System Operator + *Grid Owner if connection assets*)

# Commissioning - Asset



## Pre Asset Commissioning

- Project Overview
- Commissioning Plan
- Pre-commissioning ACS
- indications and measurements (SCADA)
- protection systems agreed (AO and GO)
- market interfaces*

# Commissioning - **Asset**



## Asset Commissioning

- asset tests
- co-ordination with other power system activities
- test results provided to SO
- SO comparison of test results and models
- dispensation assessment

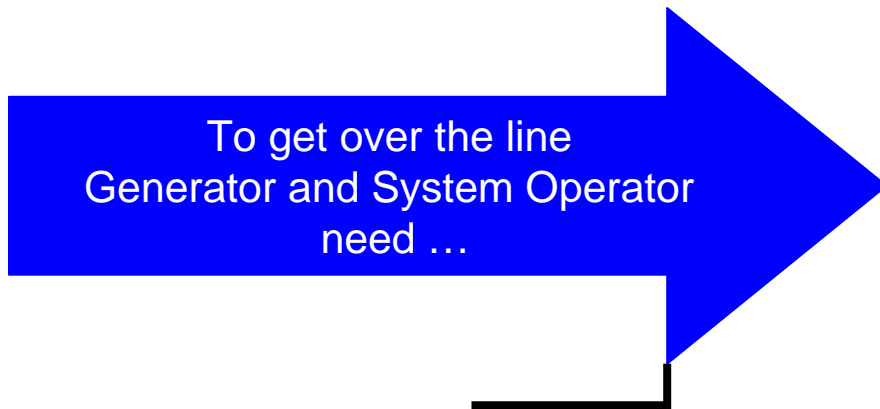
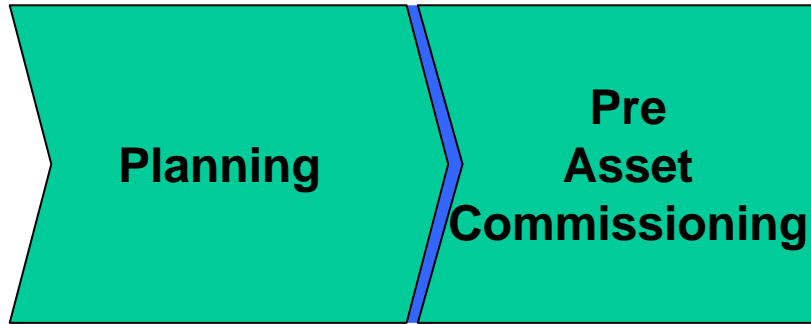
# Commissioning - Asset



**Post  
Asset  
Commissioning**

- post commissioning ACS
- update systems
  - SCADA/EMS
  - RMT model
- notice of final assessment

# Commissioning assets in the market



what information?  
when?  
why?

# Useful references

<http://www.transpower.co.nz/?id=4578>

[http://www.transpower.co.nz/?id=6012  
&currentsec=4#contentsection19647](http://www.transpower.co.nz/?id=6012&currentsec=4#contentsection19647)

