

Standard Generator Template Development

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- Background



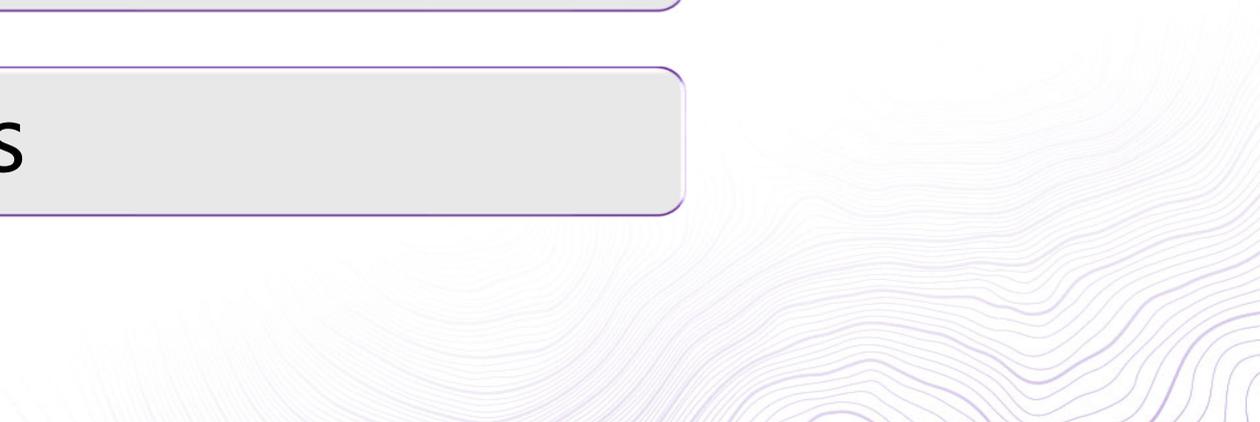
- Research



- Learnings



- Next Steps



Project Background



Increasing ICPs leading to more connections



High cost of overhead lines / express feeders



Alternatives often too expensive for limited value



Standardise generator template

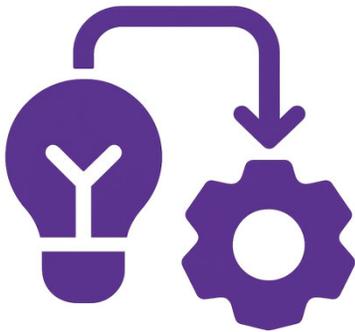
Expected Outcomes



Faster Design



Consistency



Quick Implementation



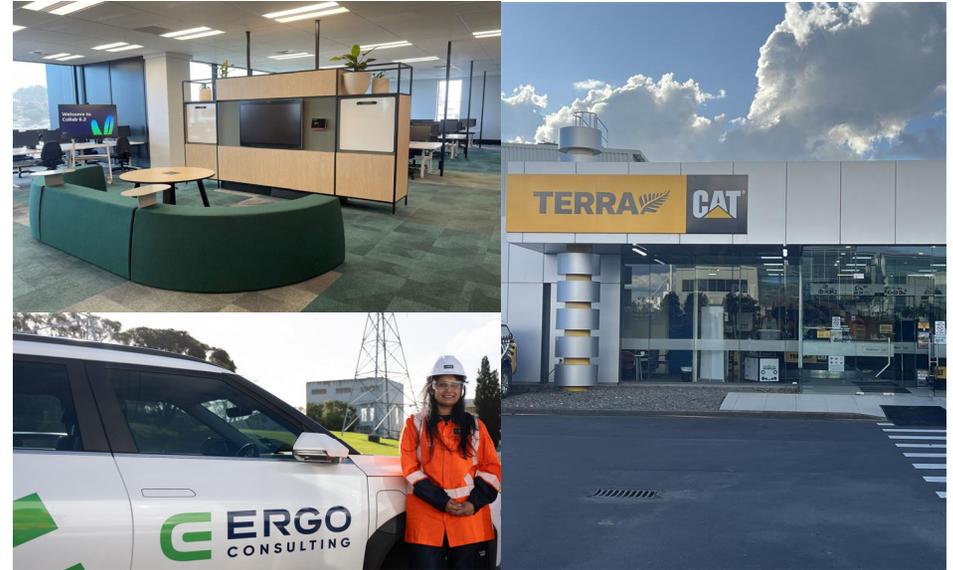
Lower cost

Stakeholders



Internal

- Protection
- Planning
- Design team
- Operations
- Feedback from lessons learnt



External

- Suppliers – TerraCAT
- Ergo
- Vector

Research Undertaken

- Gas vs Diesel trade-offs (efficiency, availability, transportability)
- Generator capacity ranges (250kVA–1MVA)
- Operational requirements (black start or peak lopping)



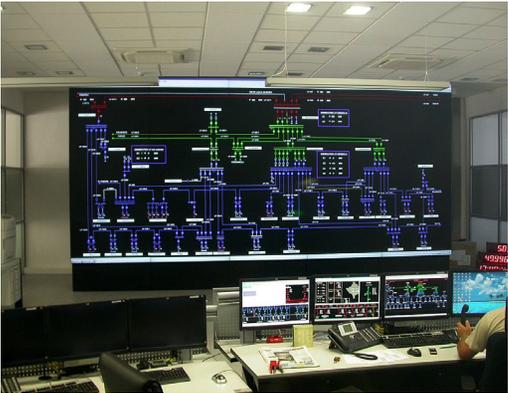
Key Learnings So Far



Diesel viability



Containerised generators

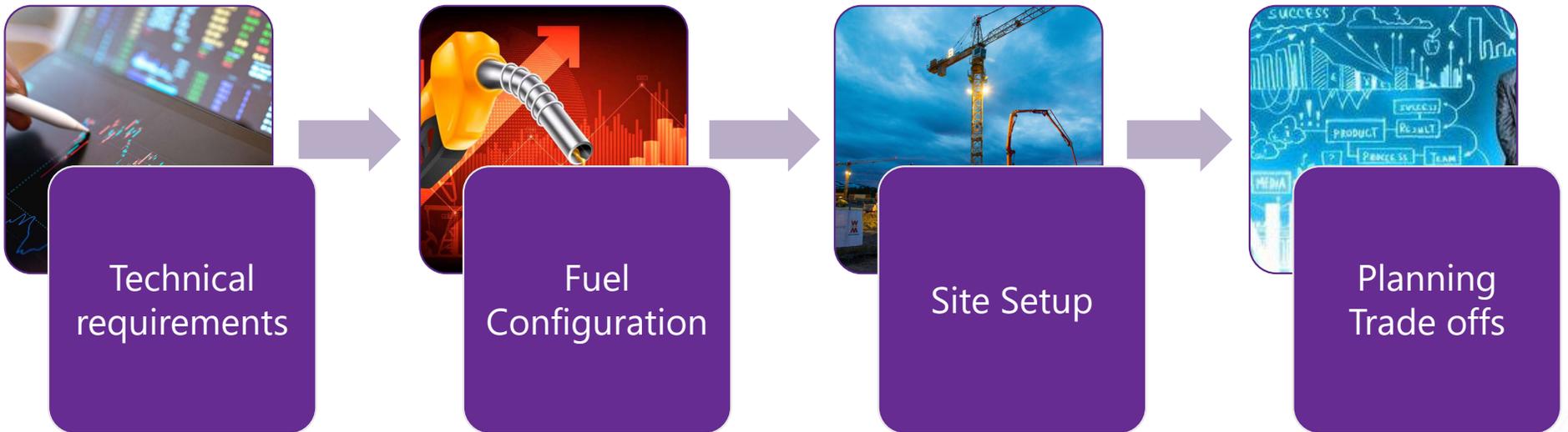


SCADA

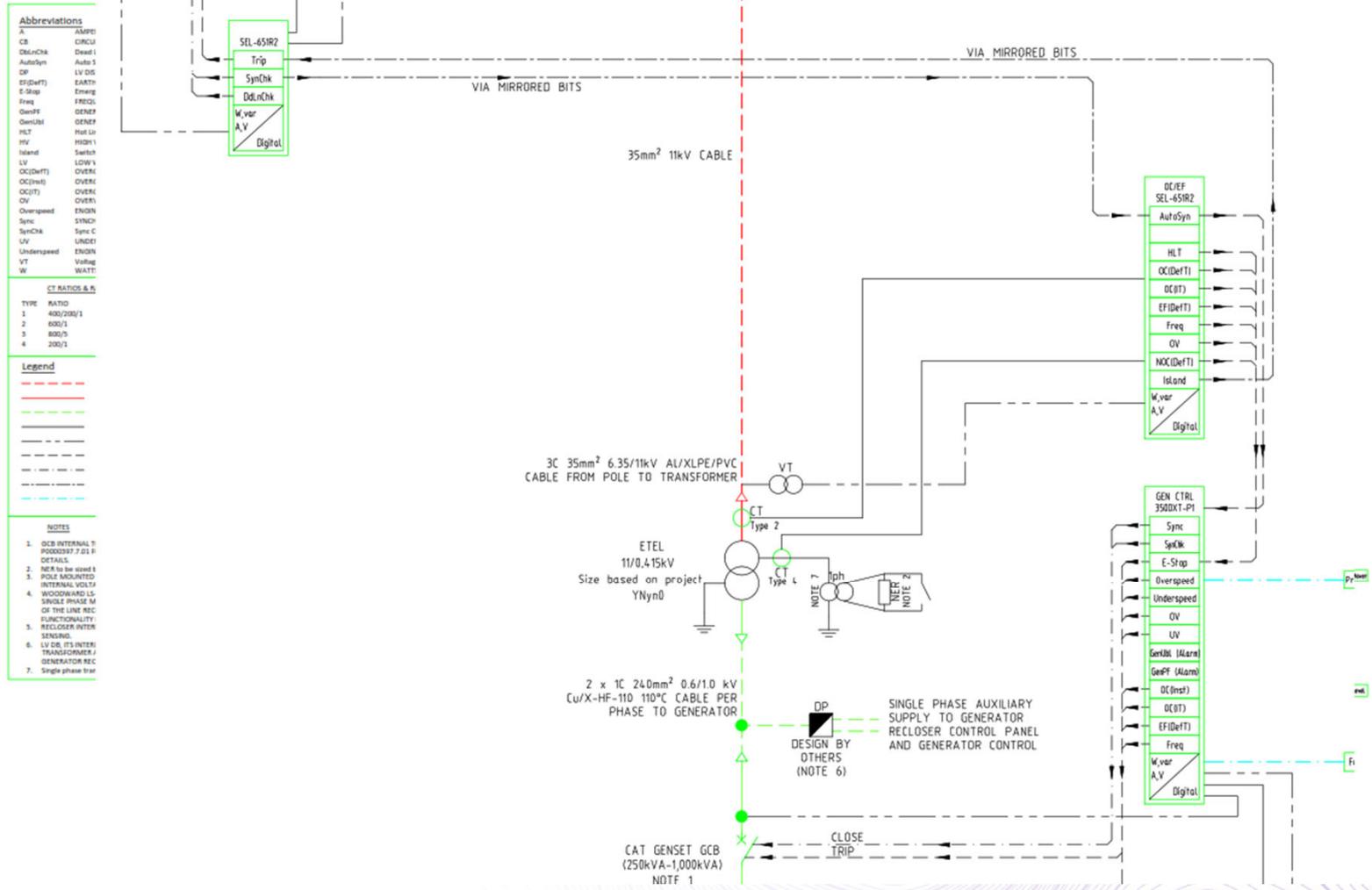


Earthing

Current Development Focus



Development Drawings



Next Steps

- Develop suite of standard drawings
- Site layout, earthing, control/protection
- Fuel system + container/skid arrangements
- Validate with stakeholders
- Finalise recommended option



What have I gotten out of this so far?

- Developing a template
- Technical knowledge
- Talk to various internal and external stakeholders
- Responsibility
- Iterative



