



### Daly River High Penetration Power System

#### Agenda

- Project Background
- Operational Context
- Design overview
  - Modelling
  - Energy Storage System
  - PV array
  - Control System
- Protection
- Other Challenges
- Results
- Future Outlook





# **Project Background**

#### Facilitators

- Diesel OPEX
- Previous Renewables Experience
- ARENA / NTG Funding





# **Operational Context**

#### Environment

- Climate
- Remoteness
- Skills
- Project site selection





### **Design Overview**

Design choices

- System Performance Modelling (Operational Intent)
- Energy Storage System
- PV array
- Control System





## **Protection Design and Testing**

Implementation

- Overview
- Design
- Testing





# **Other Challenges**

New Challenges and Resolution

- Ferroresonance
- Harmonics





### **Performance Results**

Operational Experience

TBA





### **Future Outlook**

Remote Operations Energy Strategy

- Additional systems
- Cost trends





# Thankyou

- Questions
- Contacts