

Robertstown / Elektranet

Synchronous Condenser

Project Description

- Synchronous condenser application
- Grid stabilisation



The synchronous condensers are a vital part to stabilise and strengthen the grid of South Australia

Role & Scope

Thanks to the broad competences of INP, the customer benefited not only from sound commissioning know-how but also from a wide knowledge of various technical systems. By assigning an INP expert with longstanding and comprehensive experience, the overall commissioning could be managed by a single specialist, leading to a reduction in manpower and commissioning costs. The flexibility of the INP commissioning team allowed to quickly adapt to challenges and take over additional tasks.

- Commissioning of electrical protection systems (Siprotec-5)
- Commissioning of excitation system (RG3-S)
- Commissioning of step-up transformer
- Commissioning of electrical auxiliary system
- Support of Siemens VFD S120 commissioning
- Site Management

Technical Component Details

- 130 MVA synchronous machine
- Brushless exciter, Siemens RG3-S excitation system
- Siemens Siprotec-5 protection system
- Pony motor for start-up, Siemens VFD SINAMICS S120
- Flywheel with vacuum system
- Generator circuit breaker
- Step-up transformer
- Auxiliary transformer
- AC/DC distribution system



Customer: **Siemens**



Location: **Robertstown, Australia**



Project Duration: **4 months**



Services: **Commissioning & Site Management**

“During the commissioning we were very grateful to have an INP expert in our team. The INP expert we engaged was primarily there to commission the AVR but thanks to his broad range of competencies, we could trust him to manage a bigger scope of the commissioning work and even supervise offline and online test of our machine.”

SYLVAIN, PROJECT MANAGER
SIEMENS ENERGY