



Windfarm System Migration

"Simple can be harder than complex; you have to work hard to get your thinking clean to make it simple" - *Steve Jobs*

Industry
Energy

Sector
Wind

Segment
System Engineering



Project

- The client purchased a windfarm operating 43 turbines with a generation capacity of 131MW.
- All the existing control and monitoring systems needed to be transitioned to the new owner.
- It was critical during transition production was maintained.
- The client formed a project team to manage the commercial and technical transition.
- Cromarty were engaged as the specialist integrator to manage and implement the systems migration.

Solution

The project was highly complex, multiple stakeholder systems need to be transitioned while maintaining production and maintaining interaction with the Australian Energy Market Operator (AEMO). This involved a high level of technical competency. Main works included:

- Audit and document the existing network architecture.
- Restructure communication systems while maintaining visibility for new and existing stakeholders.
- Plan and conduct the migration.
- Develop and deploy energy trading dashboard.
- Develop and implement semi-dispatch mechanism with AEMO.
- Migrate O&M services to a new control room.
- Provide ongoing 24/7 technical support.
- Provide ongoing system maintenance and upgrades.



Outcome

From commencement to completion the custody transfer took approximately 9 months and was seamlessly delivered in line with the commercial transition of the asset without any loss of production. The system audit ensured that the communications systems were fully documented aiding ongoing support. The AEMO semi-dispatch was successfully developed and implemented and has not only greatly reduced non-conformances but now been deployed on other client assets as well as on over 30 other renewable assets.