NEMMCO is recognised as one of the world’s leading power system and electricity market operators, working at the leading edge of power system operations, electricity market operations, and the development and application of purpose-built information technology systems. Employees within NEMMCO are considered industry experts in electrical engineering, electricity market operations and information technology.

The NEMMCO Electrical Engineering Power Systems Graduate Development Program (GDP) is completed over 3 years and comprises 5 rotations through different Business Units within NEMMCO. Each rotation offers a different perspective of the National Electricity Market (NEM) and graduates have the opportunity to work with local and interstate teams and learn from a range of NEMMCO team members.

The Power Systems focussed GDP allows graduates to gain a broad operational knowledge of how the NEM operates, the NEM Rules and Regulations, the national electricity network itself, the planning and forecasting process within the NEM and the operational aspects required to maintain a reliable and secure national electricity network. An overview of each rotation is provided below.

**System Operations Planning and Performance (SOPP)**

A graduate will have the opportunity to learn about how NEMMCO monitors, reports on and forecasts electricity generation between a real time, present day environment and into the following 2 years. SOPP is responsible for reporting on unusual power system events, forecasting reserve electricity adequacy to ensure a reliable operating state over the forward 2 years and modelling real power system limitations.

**Power System Operations (PSO)**

A graduate will complete 2 Power Systems Operations rotations, PSO Online and PSO Offline. A graduate will gain a good working knowledge of the day to day operations of the national power system including: the dynamics of frequency and voltage control; the operation of a secure and reliable electricity network; the geography of the power system and the equipment associated with the system; and the underlying methodology of how the power system works. Graduates would also be exposed to the NEM Training Simulator and have the opportunity to work in a real time environment within the NEMMCO control room.

**Market Operations Performance (MOP)**

A graduate will learn about the investigation and reporting process around unusual wholesale market events and the development and maintenance of market analysis, monitoring and operational tools.

**Power System Planning and Development (PSPD)**

A graduate will learn about and undertake power system analysis relating to the connection of new equipment in the electricity network. They will also assist with data collection and analysis, run market simulations and prepare content for inclusion in the annual NEMMCO Statement of Opportunities. The work that the PSPD team do is primarily focussed on the opportunities that will exist in the market in 2 to 10 years time.