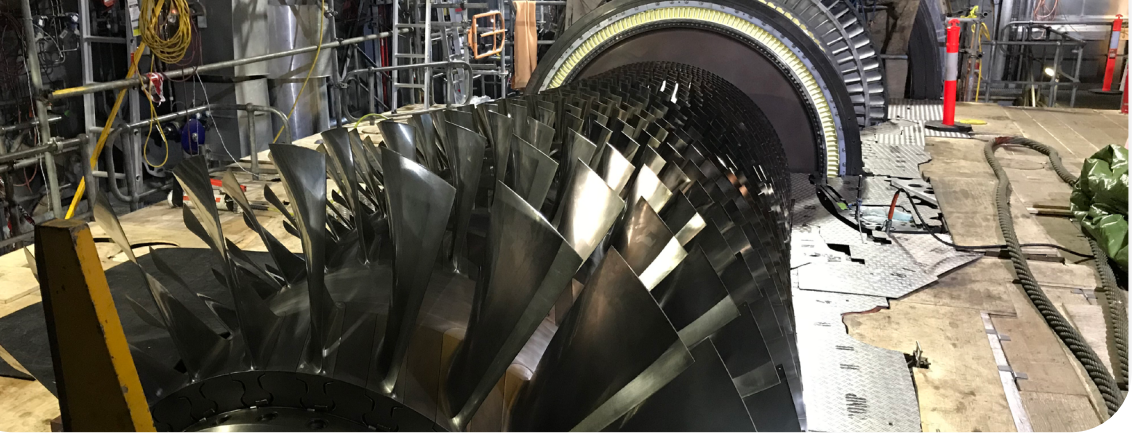

EnergyAustralia

FACTSHEET | Tallawarra A

Tallawarra A High Efficiency Upgrade

EnergyAustralia acknowledges that the Tallawarra A Power Station operates on the traditional lands of the Dharawal Peoples. We recognise their continued connection to Country and culture, and we pay our respects to Elders past, present, and emerging.

About the Tallawarra A High Efficiency Upgrade

The Tallawarra A Power Station is scheduled for servicing during a routine maintenance outage in April 2024. During this planned maintenance event, EnergyAustralia propose to replace several internal components of the power station. Utilising new technology and improved materials, the upgrade will increase the efficiency of the power station. The upgrade will increase the nominal output of the power station from 400 MW to 440 MW and would increase the maximum output capacity from 440 MW to 480 MW.

What do we mean by 'high efficiency' upgrade?

The Tallawarra A High Efficiency Upgrade (HE Upgrade) will allow EnergyAustralia to output more electricity into the National Electricity Market (NEM), also known as the grid, without increasing the amount of gas used in the process. With newer, more reliable components, the operation of Tallawarra A will become more efficient. And, as a result, major outages for maintenance would only be needed every eight years, instead of every five years.

Increase in nominal power output

400 MW → 440 MW

Increase in maximum power output capacity

440 MW → 480 MW

Key features of the upgrade

Tallawarra A is a Combined Cycle Gas Turbine (CCGT) Power Station. This means that the exhaust heat from the gas turbine is recovered and used to generate steam, thereby generating more electricity from the same fuel.

The Tallawarra A High Efficiency Upgrade will include:

1. **Upgrade of the existing compressor and turbine**
   Replacing the old blades and vanes with a new design that reduces emissions intensity and increases operational reliability.
2. **Upgrade of the existing combustion process**
   Replacing hardware components with newer technology so the same output can be produced, using less gas.
3. **Upgrade of the steam cycle and steam turbine**
   Replacing internal components to increase the power station's overall combined cycle efficiency.

The HE Upgrade will also make Tallawarra A hydrogen capable in the future. The decision to use hydrogen in Tallawarra A would be subject to a future planning approval process.

Project impacts

The HE Upgrade will be contained entirely in the existing turbine hall with materials and other items stored in laydown areas on site. There are no activities outside the existing footprint of the power station. From a community perspective, there will be no changes to the outside of the power station. Local residents may notice more people on site during the two-month outage, as they will be working more shifts to deliver the work as quickly as possible.

The main turbine at Tallawarra A during maintenance

We're here to help

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