

Snowy 2.0

Introduction to Snowy 2.0

Engineering
Fact sheet 1



What is Snowy 2.0?

Snowy 2.0 is a world-leading pumped-hydro project that will significantly increase the Snowy Scheme's electricity generation capacity and storage capability.

It will link two existing Scheme reservoirs - Tantangara and Talbingo - through tunnels and a new power station located about 800m underground.



Talbingo Reservoir

Pumped-hydro

The power station has six reversible turbines so that water can be released for energy generation during times of peak electricity demand and then be pumped back up to the top reservoir at times of low demand.

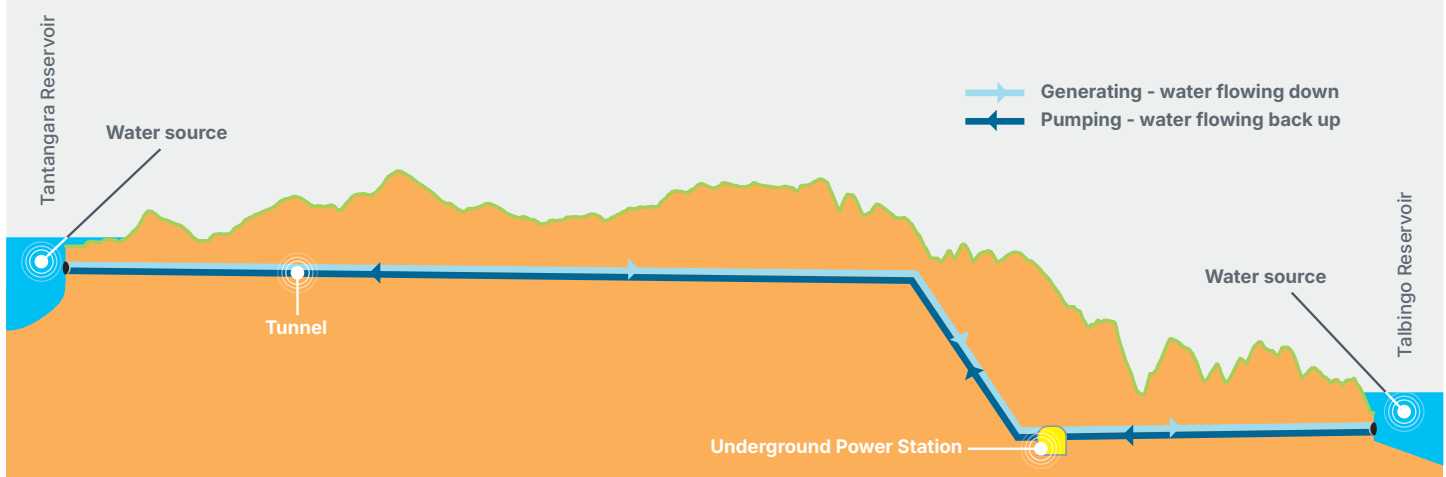
The water will be recycled - it can be used for energy generation again and again.



Tantangara Reservoir



Snowy 2.0 cross-section



Visit us at: snowyhydro.com.au

snowyhydro



Why Australia needs Snowy 2.0

The mix of power in the electricity grid is changing from mostly thermal generation (like coal) to more intermittent, renewable energy sources, such as wind and solar.

We need quick-start energy generation such as pumped-hydro, and large-scale energy storage (like our huge reservoirs) to fill gaps in the system and ensure there is electricity at peak times, when businesses and households need it.

Snowy 2.0's massive storage will ensure the stability and reliability of the electricity grid, even when there are wind or solar 'droughts'.



What Snowy 2.0 means for consumers

Snowy 2.0 will add competition to the market and provide more energy at times of peak demand, which will help drive energy prices down.

Pumping the water back up to the top reservoir when there is excess wind or solar energy means this energy isn't wasted.

The stored water can then be released when electricity demand is high.



2,000
MEGAWATTS
OF ENERGY

or 200 million LED light bulbs running simultaneously



175
HOURS
— OF —
ENERGY
STORAGE

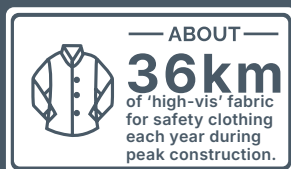


enough to power three million homes over the course of a week

More than 130,500 concrete segments will line the tunnels.



About 2.2 million meals will be served a year during peak construction.



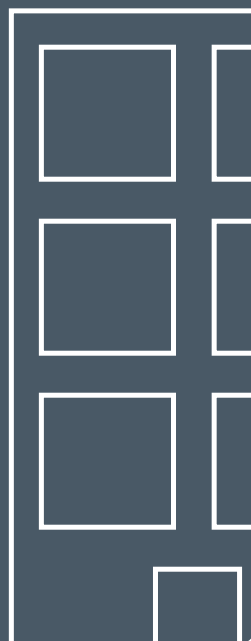
— ABOUT —
36km
of 'high-vis' fabric for safety clothing each year during peak construction.



7 seconds

At full generation, the water flowing through the tunnels would fill a 50m swimming pool in seven seconds

The power
waterway
tunnels are
about
10m in
diameter or
as high as a
three-storey
building.



Approximately 40km of tunnels including 27km power waterways