
# Snowy 2.0 - watch the latest project update video

Our growing generation portfolio will underpin thousands of megawatts of renewables and will continue to keep the lights on for generations to come.

Snowy 2.0, our major pumped-hydro expansion of the mighty Snowy Scheme, is progressing at a rapid rate. Our latest video update showcases the incredible construction work at Lobs Hole and features tunnel boring machine (TBM) Kirsten. Once fully assembled, TBM Kirsten will be a massive 205m in length - this is the equivalent of approximately two rugby league football fields!

Check out the site photos below!

**Clockwise from top left**: A crane lifts the 11-metre cutterhead for TBM Kirsten; inspecting the TBM cradle at the emergency, cable and ventilation tunnel portal; the main drive for TBM Florence is delivered to Tantangara; the main access tunnel portal, where TBM Lady Eileen Hudson is excavating.

## Work on the Snowy 2.0 project

Want to be a part of the Snowy 2.0 team? Our principal contractor Future Generation Joint Venture is looking to fill roles at multiple sites including Lobs Hole, Tantangara and Marica for trades people, stores people and labourers, along with engineers, quality inspectors, construction supervisors, plus office-based roles. Interested applicants should head to the Future Generation website for further information.

## A new era for Cabramurra

Twenty one months after the Dunns Road bushfire tore through Cabramurra, the next chapter of the historic Snowy town is beginning to take shape. The January 2020 bushfires destroyed 35 houses, three apartment blocks and Edinburgh Cottage - where Queen Elizabeth and the late Duke of Edinburgh stayed during their tour of the region in 1963.

The town's former school building and community tennis courts were also lost. Demolition of damaged buildings and facilities is now complete and preparation for reconstruction is underway. The rebuild marks the start of a new era for the town, first established in the 1950s as a basic construction camp for workers building the Snowy Scheme.

At an elevation of almost 1,500 metres, Cabramurra is one of the highest towns in

clothes dryers, relying instead on the good old rotary clothesline on washing day - whatever the weather.

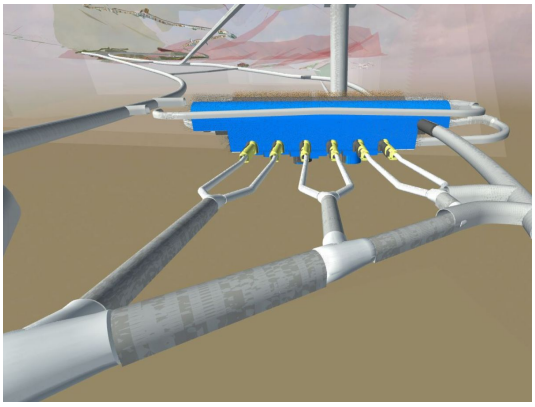
Cabramurra of the 2020s will emerge as a fit-for-purpose accommodation facility offering a range of accommodation options for Snowy Hydro staff and contractors. The first stage of rebuilding is the construction of 100 apartments, a new staff medical centre, and a purpose-built fire refuge.

The building design is focused on alpine safety, energy efficiency and bushfire resistance. Canberra-based construction contractor Manteena has commenced work onsite, and together with architects Fender Katsalidis, have introduced an innovative modular construction method which will accelerate the construction schedule. The first phase of the reconstruction is expected to be up and running by winter 2022.

## Virtual Discovery Centre excursion


Snowy Hydro is passionate about fostering the next generation of innovators. Our education program has for generations provided students with learning opportunities that align with the national curriculum. Our learning programs continue to ignite students' imagination and expand their knowledge across a range of curriculum, albeit in more virtual and creative ways. With thousands of students missing the opportunity to visit the Snowy Hydro Discovery Centre in recent times, we have created a virtual excursion. The virtual excursion, accompanied by our extensive range of learning experiences, is available on our Next Generation Education Hub.

## Technology: visualising the future



With its 27 kilometres of tunnels linking two dams and an underground power station, Snowy 2.0 is utilising world-leading hydro construction techniques and the latest developments in design technology.

Key to understanding the project's many complex components is being able to visualise how the elements fit together. This is where digital engineering tools can make a world of difference. Typically in major infrastructure projects, a mix of technical drawings, detailed specifications and information-rich models are used alongside construction schedules for a holistic view. Building information modelling (BIM) is not new to construction, but the inclusion of sophisticated graphics makes the review process more visual and interactive.

The modelling platform being used for Snowy 2.0, Revizto, is capable of handling large amounts of data and information which can be stored in the cloud and accessed simultaneously by people in different locations. During review meetings, the Snowy 2.0 team can explore 3D imagery which illustrates where the project is up to and 3D design models to illustrate where it's heading.

Clicking on different components of the model reveals further detail, including which materials will be used. This will be a valuable feature for asset maintenance down the track, when a worker onsite will be able to utilise the original 3D model and drawings. As construction progresses, detailed technical information can be added or adjusted within individual components.

environmental information and planning.

When it comes to viewing the 3D models, the Snowy 2.0 team has made good use of the Cooma Discovery Centre's immersive theatre and 14m widescreen for group workshops and VIP visitors. And the interactivity doesn't end there.

With the aid of virtual reality goggles, teams can walk through the tunnels and explore the underground power station for a realistic view of the pumped hydro complex.

Not surprisingly, the VR walkthrough is also a popular activity for visiting high school students. On completion of Snowy 2.0, the modelling will become a unique and permanent asset for Snowy Hydro, with detailed construction records throughout the life of the project.

## Winning tunnel boring machine names

After running a popular competition among Snowy Mountains schools and the broader community, Snowy Hydro has announced the winning names for two of our TBMs - Kirsten and Florence.

As part of the Snowy 2.0 TBM Naming Competition, almost 3,000 people voted on a shortlist of six influential women - chosen by local students from the fields of science, technology, engineering and maths - with astrophysicist Kirsten Banks and Australia's first electrical engineer Florence Violet McKenzie receiving majority votes.

Florence McKenzie (1890-1982) was the first woman to be awarded a Diploma in Electrical Engineering in Australia and is best known for establishing the Women's Emergency Signalling Corps in 1939, a signalling instruction school that trained 3,000 women and 12,000 servicemen in Morse code, visual signalling and international code. Florence was suggested as a TBM name by Riley Douch from Berridale Public School.

astronomy. Currently she is doing a PhD in the field of galactic archaeology, studying the stars of the Milky Way to uncover secrets of its formation and evolution. Kirsten was suggested by Kobe Burnes from Brungle Public School.

The third TBM is named Lady Eileen Hudson.



We welcome your feedback - call 1800 623 776

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