



A large graphic with a dark blue background. The words 'VOTE' and 'NOW' are written in large white letters, each on a light blue horizontal bar. Below this is a grey pill-shaped button with 'SNOWY 2.0 TBM NAMING COMPETITION' in white text. At the bottom right are the 'snowyhydro' logo and the 'snowy2.0' logo.

Cast your vote for Snowy 2.0 TBM names

The online vote for the Snowy 2.0 tunnel boring machine names is now open at snowyhydro.com.au! You have until Sunday 27 June, 2021 to make your selection.

Choose from one of the inspirational Australian women in the fields of science, technology, engineering or maths (STEM) selected by Snowy Mountains school students and shortlisted by Snowy Hydro and our principal contractor, Future Generation Joint Venture.

The shortlisted names for the Snowy 2.0 tunnel boring machines (TBMs) are:

- Kirsten Banks - astrophysicist**
- Collette Burke - engineer**
- Adrienne Clarke - botanist**
- Florence Violet McKenzie - electrical engineer**
- Beryl Nashar - geologist**
- Trish White - engineer**

There are two remaining machines to be named, with the first Snowy 2.0 TBM already titled the Lady Eileen Hudson, in honour of the original Snowy Scheme ambassador and wife of inaugural Commissioner, Sir William Hudson.

Tunnel boring machines are always given female names, a tradition stemming from the 1600s when miners working underground prayed to Saint Barbara for protection. Snowy Hydro, with its commitment to inspiring students to become the next generation of innovators, is highlighting the achievements of groundbreaking Australian women in STEM for the Snowy 2.0 TBMs.

To vote for one of the six Australian women in STEM (and for competition T&Cs), visit the Snowy 2.0 TBM Naming Competition 'vote now' webpage by Sunday 27 June, 2021. The two most popular names, as voted by the public, will be used to identify the Snowy 2.0 TBMs.



Snow and more snow around the Scheme

Snowfall and the spring melt contribute around two-thirds of the water stored in Snowy

Hydro's dams. As this is the 'fuel' supply to generate clean hydroelectric power, it's essential to understand how much snow has accumulated across the mountains to effectively manage water within the Snowy Scheme.

Through the winter season, Snowy's Hydrographic team measures various characteristics of the accumulated snowpack, including snow depth and weight. This information allows Snowy Hydro to calculate the amount of water, or water density, of the snowpack. Skiers would be familiar with powdery snow, which typically contains around 10-20% water density. Slushy snow, more common at the end of the season, has a higher water content - water density in a ripened snowpack can be up to 50% or more!

The latest monitoring technologies, deployed at a number of remote winter locations, use a snow depth sensor and weighing scale system to capture the depth and weight of a one-metre square patch of snow, with data regularly transmitted directly to the Water team for analysis. One of these high-tech systems is operational at the Deep Creek snow monitoring site, between Cabramurra and Khancoban.

Field measurements are also conducted at key snow monitoring sites using a hollow metal tube called a snow corer that is pushed into the snow down to ground level, capturing a sample of snow that is then measured by weight. This is carried out along a line of reference points to measure the snow characteristics at each point and the results are 'meaned' for an overall representative measurement.

Both methods provide data for a particular section of the catchment, but conditions of the snowpack can vary significantly depending on elevation and aspect, and changes throughout the season.

Historical records provide lots of useful information, but are only representative of that location. Move 100 metres up or down the mountain and the reading will be different again. Coupled with satellite imagery analysis of snow cover through the year, snow depth measurements contribute to Snowy Hydro's understanding of potential available meltwater in the alpine catchments.

Tonnes of tunnel segments



Production is well underway at the precast factory at Polo Flat, Cooma, with hundreds of huge concrete segments lined up in the storage yard ready to be transported. Viewed from above, the precast segment factory is a telling example of the scale and complexity of the Snowy 2.0 project.

The facility is a hive of activity, with about 100 workers carrying out final electrical and mechanical works for commissioning of carousels and the concrete batch plant.

To date, segments have been manufactured manually, with output to increase significantly as automated components of the facility come online.

Once onsite, the segments will be loaded into the tunnel boring machines and used to line the tunnels, creating enormous 10-metre diameter rings. Nine concrete segments are required to create each ring, with 14,500 rings needed for the 27 kilometres of power waterway tunnels. When fully automated, the Polo Flat facility will produce 4,500 segments or 500 complete rings every month.

Jobs with Snowy 2.0

More activity means more positions are opening up across all Snowy 2.0 work fronts. Over 1,000 workers are now involved in construction of the massive pumped-hydro project, bringing welcome opportunities to the Snowy Mountains region.

Snowy 2.0 principal contractor, Future Generation Joint Venture, is looking to fill more than 150 open roles at multiple sites including Lobs Hole, Tantangara and Marica for trades people, water treatment plant operators, stores people and labourers.

Recruitment is ongoing across all sites for engineers and quality inspectors, as well as

construction supervisors, tunnelling supervisors, conveyor supervisors and more. Visit the Future Generation website for more details.

Business profile - PHE Electrical Tumut



The team from PHE has been providing services to Snowy Hydro for 17 years and is now involved with Snowy 2.0 as well, adding local jobs to their business.

Meet Matt Graham, Red Energy Ambassador

World champion freestyle skier Matt Graham fell in love with his sport during family ski holidays as a child. The self-described adrenaline junkie started mogul skiing at the age of seven.

2020 was a challenging year – how did you adapt your training?

Once Australia went into lockdown last April, I purchased some home gym equipment to continue my strength and conditioning training. During the first half of the year, we were unable to do any skill-based training so I watched a lot of old mogul videos and training footage to keep my mind active and in 'ski-mode'.

Tell us about winning the World Cup title.

Winning the World Cup title has always been a goal of mine. It is considered one of the major achievements in our sport, so to win it felt amazing! It was such a long and tough season for the team travelling around the world during a pandemic so to finish on top made it all worth it.

What's your focus for 2021?

2021 is the Olympic lead-up year, which is always a big year for athletes. My focus is to maximise every training opportunity we can get. I am also studying part-time this year, which is keeping me busy in my off-time.

You recently spent some time in the Snowy Mountains. What did you get up to?

I haven't been down there in the off-season for many years, so it was great to go on some hikes and see the mountains. I also spent some time mountain biking around Jindy and enjoying some quality food and drinks around town. The Main Range walk up Mt Kosciuszko was probably the highlight!

Will we see you on the ski slopes in Australia this winter?

Yes, and I cannot wait! I will likely be down in the Snowy Mountains from mid-July until mid-September.



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