

Name:

Date:

SNOWY 2.0 VIRTUAL TOUR

KNOWLEDGE QUEST

HINT

Stop at location points to find the answers.

OVERVIEW

Interact with the Snowy 2.0 virtual map while taking the Knowledge Quest challenge and immerse yourself in Snowy Hydro's Snowy 2.0 pumped-hydro mega project.



ANSWER LOCATION:

[Click here](#) to find the Snowy 2.0 virtual tour map

1 SEGMENT FACTORY

How many concrete segments are needed per kilometre?

4.833

Total weight of segments per kilometre?

33.833 tonnes

Research - how many segments are required in one ring? And what would be the total weight?

9 segments in a ring and total weight of 63 tonnes

2 TANTANGARA

1 Tantangara Reservoir is an existing dam within the Snowy Scheme and is the top storage for the Snowy 2.0 Project.

2 On the virtual map locate and name the existing lower water storage reservoir in the project?

Talbingo Reservoir

3 At what times will the power station generate electricity? Circle

a) Flat times b) Peak times c) Busy times

3 RAVINE ROAD

In your words describe Ravine Road and why it is important

Hint: watch the YouTube video

The terrain looks very steep and remote. The road is winding and gravel. It is an essential road as it enables the equipment, machinery and personnel to access Lobs Hole.

4 TALBINGO RESERVOIR

1 What makes the Snowy 2.0 pumped-hydro project unique?

Water is pumped back up to Tantangara Reservoir to be used over and over again.

2 Tunnel Boring Machine (TBM) Lady Eileen Hudson is currently excavating the main access tunnel. Locate where the other two TBMs are and name them.

Kirsten at the emergency, cable and ventilation tunnel in Lobs Hole and Florence at the Tantangara headrace tunnel.

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5 LOBS HOLE

Describe the significance of Lobs Hole to the Snowy 2.0 project and why?

The biggest construction site, central to the project comprising the Main Access Tunnel (MAT), the Emergency Cable Ventilation Tunnel (ECVT), the main camp accommodation and the main yard.

6 M.A.T PORTAL

What does the acronym MAT stand for?

M

Main

A

Access

T

Tunnel

How many kilometres will TBM Lady Eileen Hudson have to tunnel to reach the power station site?

27 kilometres

7 ECVT

What does ECVT stand for?

E

Emergency

C

Cable &

V

Ventilation

T

Tunnel

PERSONAL RESEARCH

What does the word 'egress' mean?

The action of going out of or leaving a place. 'direct means of access and egress for passengers'

8 POWER STATION



When Snowy 2.0 is operational, how many homes will it power?

500,000 homes

How many hours of large-scale energy storage does that equate to?

175 hours

9 MARICA ROAD

In an emergency shut down of the power station the surge shaft allows water under..... **Circle**

a) high pressure to escape upwards

b) low pressure to run downstream

c) sound an alarm

