

SCIENCE OF THE SNOWY SCHEME

with Kirsten Banks

PUMPED-HYDRO

Multiple choice questions

1

What power station is Kirsten Banks in?

CIRCLE ANSWER

Guthega

Tumut 3

Tumut 2

2

How many units are there in this power station?

CIRCLE ANSWER

4

300

6

3

Each unit generates how many megawatts?

CIRCLE ANSWER

300MW

1,800MW

10MW

What is pumped-hydro?

Use the word bank below to complete the definition

reused | water | higher | electricity | reservoir

Pumped-hydro is when _____ is drawn from a lower _____ and pumped up to a _____ reservoir so the water can be _____ to generate _____.



Tumut 3 Power Station

Comprehension

How does pumped-hydro work at Tumut 3 (T3) Power Station?

Water is drawn up from Jounama Pondage, via the impeller which pushes water uphill to Talbingo Reservoir.

The impeller pressurises the water to push it up. The generator is used to drive the impeller. Power is drawn from the electricity network to drive the generator when pumping, which now has effectively become an electric motor to drive the pump and push the water up the hill

Pumped-hydro allows water to be moved from a lower reservoir to a higher reservoir to be stored and made available to generate renewable electricity.

Answer the questions in sentences

1. Which power station is fitted out to perform pumped-hydro?

2. Where is the water drawn from and which reservoir is it pushed up to?

3. What does the impeller do and what drives it?

4. What does pumped-hydro allow to happen?



Snowy 2.0 project | Listening skills

1

What is the new pumped-hydro project called?

2

What are the names of the two connecting reservoirs?

1.

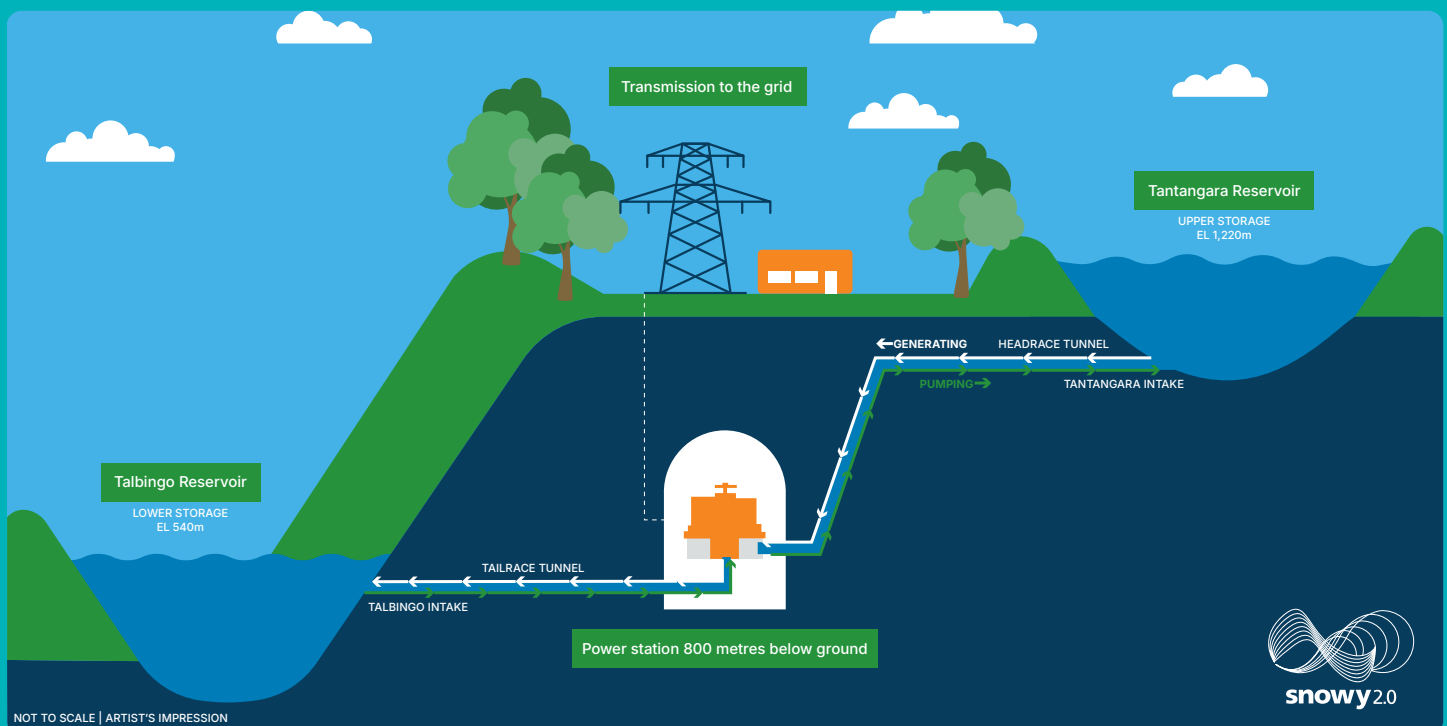
2.

3

What will the water be used for that sits in Tintangara reservoir?

4

When will the water be used?



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