



SCIENCE OF THE SNOWY SCHEME

with Kirsten Banks

SNOWY SCHEME OVERVIEW

Multiple choice questions

1

Who is Kirsten Banks?

CIRCLE ANSWER

Astrophysicist

Science communicator

Snowy 2.0 TBM namesake

All of the above

2

Where is the mighty Snowy Scheme situated?

CIRCLE ANSWER

Blue Mountains, NSW

Snowy Mountains, NSW

Melbourne, VIC

3

The Snowy Mountains Scheme was originally developed to mitigate drought. Which way was the water diverted?

CIRCLE ANSWER

Westward

Across the Nullabor

Eastward

Use the word bank below to complete this paragraph

renewables | captures | snowmelt | critical | water | tunnels | reservoirs |
underpinning | network | stores | light | diverts

The Snowy Scheme has a _____ role in keeping the _____ on and _____ Australia's transition to _____. The Scheme _____, _____ and _____ the _____ from _____ combined with spring rainfall using a complex _____ of aqueducts and trans-mountains _____. This network channels the water into 16 major _____ to be stored as energy in waiting.

Match the facts and assets

Draw a line connecting the fact/asset to a number

More than _____ men
and women from over _____
different countries worked
on the Snowy Scheme

Snowy Scheme was built
between

of tunnels

of aqueducts

Hydro power stations

4,215MW

27km

Almost 800m

30

9

80km

100,000

1

145km

33

1949 - 1974

Megawatts of power
annually

of Snowy 2.0 new water
way tunnels

Snowy 2.0 underground
power station

Generating units

Pumping station

Complete the sentences and questions

Circle the correct answer

Example - Tunnels, dams and hydro power stations | coal, rocks and train stations use the
power of water to generate clean renewable energy

1. What is Snowy 2.0? A new event in the winter Olympics | pumped-hydro expansion project
2. Is Snowy 2.0 Australia's largest committed renewable energy project? No | yes
3. Snowy 2.0 project will reuse water between two existing reservoirs,
Talbingo and Tantangara | Jindabyne and Guthega
4. What does TBM stand for? Totally Big Machine | Tunnel Boring Machine
5. Pumped-hydro provides
on-demand dispatchable renewable energy | on-order dispatchable renewable energy.
6. The Snowy 2.0 project will pump when demand is high | low and there is excess renewable
energy supply.
7. Snowy 2.0 will generate when demand is high | low, or when other generation sources are
not producing, such as seaweed and tide output or outages in nuclear power stations |
wind and solar output or outages at base load coal power stations