# SCIENCE OF THE SNOWY SCHEME with Kirsten Banks

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## 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 Nullarbor

**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				
f aqueducts and trans-mountain This network channels the water into 16 maj					
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	4,215M	1W	27km	Megawatts of power	
and women from over different countries worked	Almost 800m			annually	
on the Snowy Scheme	30	9	80km	of Snowy 2.0 new water way tunnels	
Snowy Scheme was built between	100,000			Snowy 2.0 underground	
of tunnels				power station	
of aqueducts	1	145km	33	Generating units	
Hydro power stations	1949 - 1974			Pumping station	

#### Complete the sentences and questions

#### Circle the correct answer

Example - Junnels, 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



