# Stages 3 & 4

6

SCIENCE OF THE SNOWY SCHEME with Kirsten Banks

# SNOWY SCHEME OVERVIEW

#### Multiple choice questions



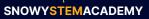
### Use the word bank below to complete this paragraph

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

The Snowy Scheme has a <u>critical</u> role in keeping the <u>lights</u> on and <u>underpinning</u> Australia's transition to <u>renewables</u>. The Scheme <u>captures</u>, <u>stores</u> and <u>diverts</u> the <u>water</u> from <u>snowmelt</u> combined with spring rainfall using a complex <u>network</u> of aqueducts and trans-mountains <u>tunnels</u>. This network channels the water into 16 major <u>reservoirs</u> to be stored as energy in waiting.

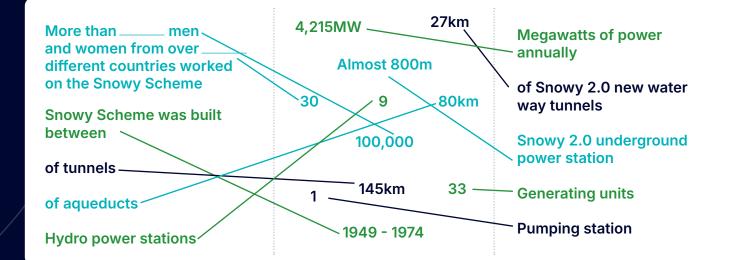
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### Match the facts and assets

#### Draw a line connecting the fact/asset to a number



# 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

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