

TECHNOLOGIES

WHAT IS PUMPED HYDRO?

[PUMPED HYDRO NEEDS A PARTICULAR TYPE OF SITE]

LOCAL POWER SOURCE
E.G. SOLAR POWER



TO YACK
MINI GRID

pump water up
when there is
excess energy

PUMP &
TURBINE

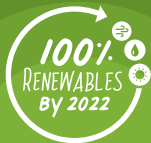
Release water down
to drive a turbine
when energy is
required

20ML = 20,000 tonnes
equivalent to a large
farm dam

CRITICAL QUESTION

WHAT SITES ARE
SUITABLE AND HOW MUCH
CAN THEY STORE?

CURRENTLY
THERE IS NO
community-owned
PUMPED HYDRO
in Australia



USE LESS • GENERATE • STORE • SHARE

TECHNOLOGIES

WHAT IS PUMPED HYDRO?

PUMPED HYDRO ENERGY STORAGE (PHES) FACILITY



Uses gravity



Stores energy, e.g solar energy

→ pumps water uphill to a storage dam, when there is excess energy

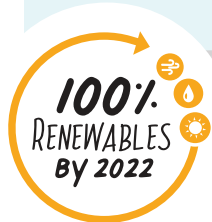
→ releases water downhill to drive a turbine, when energy is required



“TIME SHIFTS” energy availability



Is a form of physical energy storage



USE LESS • GENERATE • STORE • SHARE



NEED TO KNOW MORE?

contact:

Totally Renewable Yackandandah

✉ info@totallyrenewablejack.org.au

🌐 totallyrenewablejack.org.au

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