

50 BY 2050

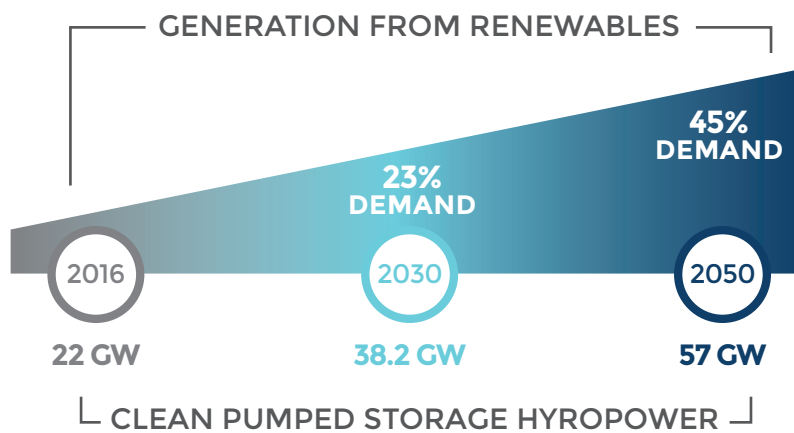
HYDROPOWER'S VISION FOR GROWTH

GROWING HYDROPOWER ENABLES MORE WIND AND SOLAR ONTO THE GRID

Today, Pumped Storage Hydropower (PSH) represents 97% of the nation's energy storage. New analysis from the U.S. Department of Energy's Hydropower Vision Report found that by increasing pumped storage's capacity by 35.5 gigawatts by 2050, we can **more than double the nation's energy storage capacity, while increasing other renewables like wind and solar.**

MORE PUMPED STORAGE = MORE WIND & SOLAR

The Hydropower Vision Report presents a scenario under which variable renewables meet 45% of the electricity demand by 2050. As demand rises, the need for PSH becomes greater because it is complementary to other renewables.



PSH enables greater integration of renewables (wind/solar) into the grid by utilizing excess generation, and being ready to produce power during low wind and solar generation periods. PSH also has the ability to quickly ramp electricity generation up in response to periods of peak demand.

WHAT IS PUMPED STORAGE HYDROPOWER?

A pumped storage hydropower facility pumps water to an upper reservoir when demand and electricity prices are low...

...and subsequently releases the water back to a lower reservoir through a turbine when demand is high and electricity is more expensive.



Pumped Storage is a predictable, flexible and commercially proven technology for grid-scale energy storage and generation.

AS A NATION, WE HAVE A CLEAR CHOICE TO MAKE ABOUT OUR CLEAN ENERGY FUTURE: STAND STILL OR UNLOCK HYDROPOWER'S POTENTIAL



1.75 GW

New Stream-reach development



6.3 GW

Upgrades at existing hydropower projects



4.8 GW

Developing on existing non-powered dams



35.5 GW

New pumped storage projects, along with upgrades at existing facilities.