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.

CLEAN PUMPED STORAGE HYDROPOWER

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.

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.

LEARN MORE AT HYDRO.ORG
Source: U.S. Department of Energy Hydropower Vision Report

#HYDRO5050