

WWS Generation

WWS electricity generation

- Onshore/offshore wind
- Rooftop/utility photovoltaics
- Concentrated solar power
- Geothermal
- Hydro
- Tidal & wave

WWS heat generation

- Solar thermal/CSP steam
- Geothermal heat

WWS Grid

Transmission/distribution (T&D)

- AC/HVAC/HVDC lines
- Distribution lines
- Grid management
 - Software
 - Demand response

WWS Storage

Electricity storage

- Batteries
- CSP storage
- Pumped hydropower storage
- Hydropower reservoirs
- Flywheels
- Compressed air
- Gravitational storage

District heat storage

- Water tanks
- Boreholes/water pits/aquifers

District cold storage

- Water tanks/ice
- Aquifers

Building heat storage

- Water tank storage
- Thermal mass

Hydrogen storage

- Hydrogen storage tanks

WWS Equipment

Building and district air+water heating

- Electric heat pumps

Building and district cooling

- Electric heat pumps

Industrial heat

- Arc/induction/resistance furnaces
- Dielectric heaters
- Electron beam heaters
- Heat pumps/CSP steam

Hydrogen generation/compression

- Electrolyzers/compressors

Transportation vehicles

- Battery-electric
- Hydrogen fuel cell

Some appliances/machines

- Induction cooktops
- Electric leafblowers/lawnmowers
- Heat pump dryers

Efficiency/reduce energy use

- Insulate/weatherize buildings
- LED lights/efficient appliances
- Telecommute/improve public transit