

UTILITY-SCALE RENEWABLES

Utility-scale renewable energy technologies are designed to generate large quantities of electricity for delivery to an electrical grid and to multiple electricity users.



WIND POWER

Large wind farms (land or offshore), consisting of multiple turbines, use wind to generate commercially available electrical power.



OCEAN ENERGY

Marine hydrokinetic technologies use the energy in wave, current, or tidal resources to generate electricity.



Ocean thermal systems use temperature differentials in ocean water to produce power.

MUNICIPAL SOLID WASTE

Landfill trash and other wastes can be converted to methane gas or directly combusted to produce useable energy.



BIOMASS

Biomass technologies use plants and plant-derived materials to generate power.



GEO THERMAL

Geothermal power uses hot water or steam created by the natural heat of the earth to generate electricity.



HYDROELECTRIC

Hydroelectric energy uses the power of flowing water to turn a turbine to generate electricity.



SOLAR PHOTOVOLTAIC AND THERMAL SYSTEMS

Solar photovoltaic arrays directly convert sunlight to electricity to produce commercially available electrical power.



Solar thermal systems use collectors to concentrate sunlight to heat water or other working fluids to generate electricity.