

Energy Data, International Renewable Energy Agency (IRENA)

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Summary

The International Renewable Energy Agency is an intergovernmental organization mandated to facilitate cooperation, advance knowledge, and promote the adoption and sustainable use of renewable energy.

It promotes the widespread adoption and collects data on sustainable use of all forms of renewable energy, including bioenergy, geothermal, hydropower, ocean, solar and wind energy.

151 tables were updated in July of 2024.

Tables In IFs

Variable	Definition	Years	Used in Preprocessor
EnElecBiogasCapacityIRENA	Biogas Electricity Capacity (MW)	2000-2023.0	
EnElecCoalpeatCapacityIRENA	Coal and peat Electricity Capacity (MW)	2000-2023.0	
EnElecFossilFuelsCapacityIRENA	Fossil fuels Electricity Capacity (MW)	2000-2023.0	
EnElecGeothermalCapacityIRENA	Geothermal Electricity Capacity (MW)	2000-2023.0	
EnElecLiqBioCapacityIRENA	Liquid biofuels Electricity Capacity (MW)	2000-2023.0	
EnElecMarineCapacityIRENA	Marine energy Electricity Capacity (MW)	2000-2023.0	
EnElecMixedHydroCapacityIRENA	Mixed hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecNatgasCapacityIRENA	Natural gas Electricity Capacity (MW)	2000-2023.0	
EnElecNuclearCapacityIRENA	Nuclear Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridBiogasCapacityIRENA	Off Grid Biogas Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridCoalpeatCapacityIRENA	Off Grid Coal and peat Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridFossilFuelsCapacityIRENA	Off Grid Fossil fuels Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridGeothermalCapacityIRENA	Off Grid Geothermal Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridLiqBioCapacityIRENA	Off Grid Liquid biofuels Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridMarineCapacityIRENA	Off Grid marine energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridMixedHydroCapacityIRENA	Off Grid Mixed hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridNatgasCapacityIRENA	Off Grid Natural gas Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridNuclearCapacityIRENA	Off Grid Nuclear Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridOffshoreWindCapacityIRENA	Off Grid Offshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridOilCapacityIRENA	Off Grid Oil Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridOnshoreWindCapacityIRENA	Off Grid Onshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridOtherNonRenewCapacityIRENA	Off Grid Other nonrenewables Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridPumpedCapacityIRENA	Off Grid Pumped Storage Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridRenewableHydroCapacityIRENA	Off Grid Renewable hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridReneWasteCapacityIRENA	Off Grid Renewable municipal waste energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridSolarCapacityIRENA	Off Grid Solar photovoltaic Electricity Installed Capacity (MW)	2000-2023.0	
EnElecOffGridSolarThermalCapacityIRENA	Off Grid Solar thermal energy Electricity Installed Capacity (MW)	2000-2023.0	
EnElecOffGridSolidBioCapacityIRENA	Off Grid Solid biofuels energy Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridTotalCapacityIRENA	Off Grid Total renewables Electricity Capacity (MW)	2000-2023.0	
EnElecOffGridTotalNonCapacityIRENA	Off Grid Total Nonrenewable Electricity Capacity (MW)	2000-2023.0	
EnElecOffshoreWindCapacityIRENA	Offshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOilCapacityIRENA	Oil Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridBiogasCapacityIRENA	On Grid Biogas Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridCoalpeatCapacityIRENA	On Grid Coal and peat Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridFossilFuelsCapacityIRENA	On Grid Fossil fuels Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridGeothermalCapacityIRENA	On Grid Geothermal Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridLiqBioCapacityIRENA	On Grid Liquid biofuels Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridMarineCapacityIRENA	On Grid marine energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridMixedHydroCapacityIRENA	On Grid Mixed hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridNatgasCapacityIRENA	On Grid Natural gas Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridNuclearCapacityIRENA	On Grid Nuclear Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridOffshoreWindCapacityIRENA	On Grid Offshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridOilCapacityIRENA	On Grid Oil Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridOnshoreWindCapacityIRENA	On Grid Onshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridOtherNonRenewCapacityIRENA	On Grid Other nonrenewables Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridPumpedCapacityIRENA	On Grid Pumped Storage Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridRenewableHydroCapacityIRENA	On Grid Renewable hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridReneWasteCapacityIRENA	On Grid Renewable municipal waste energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridSolarCapacityIRENA	On Grid Solar photovoltaic Electricity Installed Capacity (MW)	2000-2023.0	
EnElecOnGridSolarThermalCapacityIRENA	On Grid Solar thermal energy Electricity Installed Capacity (MW)	2000-2023.0	
EnElecOnGridSolidBioCapacityIRENA	On Grid Solid biofuels energy Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridTotalCapacityIRENA	On Grid Total renewables Electricity Capacity (MW)	2000-2023.0	
EnElecOnGridTotalNonCapacityIRENA	On Grid Total Nonrenewable Electricity Capacity (MW)	2000-2023.0	
EnElecOnshoreWindCapacityIRENA	Onshore wind energy Electricity Capacity (MW)	2000-2023.0	
EnElecOtherNonRenewCapacityIRENA	Other nonrenewables Electricity Capacity (MW)	2000-2023.0	
EnElecPumpedCapacityIRENA	Pumped Storage Electricity Capacity (MW)	2000-2023.0	
EnElecRenewableEnerCapacityIRENA	Renewable Energy share of electricity capacity (%)	2000-2023.0	
EnElecRenewableHydroCapacityIRENA	Renewable hydro energy Electricity Capacity (MW)	2000-2023.0	
EnElecReneWasteCapacityIRENA	Renewable municipal waste energy Electricity Capacity (MW)	2000-2023.0	
EnElecSolarCapacityIRENA	Solar photovoltaic Electricity Installed Capacity (MW)	2000-2023.0	
EnElecSolarThermalCapacityIRENA	Solar thermal energy Electricity Installed Capacity (MW)	2000-2023.0	
EnElecSolidBioCapacityIRENA	Solid biofuels energy Electricity Capacity (MW)	2000-2023.0	
EnElecTotalCapacityIRENA	Total renewables Electricity Capacity (MW)	2000-2023.0	
EnElecTotalNonCapacityIRENA	Total Nonrenewable Electricity Capacity (MW)	2000-2023.0	
EnProdElecBiogasIRENA	Biogas Electricity Generation (GWh)	2000-2023.0	
EnProdElecCoalpeatIRENA	Coal and peat Electricity Generation (GWh)	2000-2023.0	
EnProdElecFossilFuelsIRENA	Fossil fuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecGeothermalIRENA	Geothermal Electricity Generation (GWh)	2000-2023.0	
EnProdElecLiqBioIRENA	Liquid biofuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecMarineIRENA	Marine energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecMixedHydroIRENA	Mixed hydro energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecNatgasIRENA	Natural gas Electricity Generation (GWh)	2000-2023.0	
EnProdElecNuclearIRENA	Nuclear Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridBiogasIRENA	Off Grid Biogas Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridCoalpeatIRENA	Off Grid Coal and peat Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridFossilFuelsIRENA	Off Grid Fossil fuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridGeothermalIRENA	Off Grid Geothermal Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridLiqBioIRENA	Off Grid Liquid biofuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridMarineIRENA	Off Grid marine energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridMixedHydroIRENA	Off Grid Mixed hydro energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridNatgasIRENA	Off Grid Natural gas Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridNuclearIRENA	Off Grid Nuclear Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridOffshoreWindIRENA	Off Grid Off Shore wind energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridOilIRENA	Off Grid Oil Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridOnShoreWindIRENA	Off Grid On Shore wind energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridOtherNonRenewIRENA	Off Grid Other nonrenewables Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridPumpedIRENA	Off Grid Pumped Storage Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridRenewableHydroIRENA	Off Grid Renewable hydro energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridReneWasteIRENA	Off Grid Renewable municipal waste energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridSolarIRENA	Off Grid Solar photovoltaic Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridSolarThermalIRENA	Off Grid Solar thermal energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridSolidBioIRENA	Off Grid Solid biofuels energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffGridTotalIRENA	Off Grid Total renewables Electricity Generation (GWh)	2000-2024.0	
EnProdElecOffGridTotalNonIRENA	Off Grid Total Nonrenewable Electricity Generation (GWh)	2000-2023.0	
EnProdElecOffShoreWindIRENA	Off Shore wind energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOilIRENA	Oil Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridBiogasIRENA	On Grid Biogas Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridCoalpeatIRENA	On Grid Coal and peat Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridFossilFuelsIRENA	On Grid Fossil fuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridGeothermalIRENA	On Grid Geothermal Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridLiqBioIRENA	On Grid Liquid biofuels Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridMarineIRENA	On Grid marine energy Electricity Generation (GWh)	2000-2023.0	
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EnProdElecOnGridNuclearIRENA	On Grid Nuclear Electricity Generation (GWh)	2000-2023.0	
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EnProdElecOnGridOilIRENA	On Grid Oil Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridOnShoreWindIRENA	On Grid On Shore wind energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridOtherNonRenewIRENA	On Grid Other nonrenewables Electricity Generation (GWh)	2000-2023.0	
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EnProdElecOnGridReneWasteIRENA	On Grid Renewable municipal waste energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridSolarIRENA	On Grid Solar photovoltaic Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridSolarThermalIRENA	On Grid Solar thermal energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridSolidBioIRENA	On Grid Solid biofuels energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridTotalIRENA	On Grid Total renewables Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnGridTotalNonIRENA	On Grid Total Nonrenewable Electricity Generation (GWh)	2000-2023.0	
EnProdElecOnShoreWindIRENA	On Shore wind energy Electricity Generation (GWh)	2000-2023.0	
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EnProdElecPumpedIRENA	Pumped Storage Electricity Generation (GWh)	2000-2023.0	
EnProdElecRenewableEnerIRENA	Renewable Energy share of electricity (%)	2000-2023.0	
EnProdElecRenewableHydroIRENA	Renewable hydro energy ProdElecitivity (GWh)	2000-2023.0	
EnProdElecReneWasteIRENA	Renewable municipal waste energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecSolarIRENA	Solar photovoltaic Electricity Generation (GWh)	2000-2023.0	
EnProdElecSolarThermalIRENA	Solar thermal energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecSolidBioIRENA	Solid biofuels energy Electricity Generation (GWh)	2000-2023.0	
EnProdElecTotalIRENA	Total renewables Electricity Generation (GWh)	2000-2023.0	
EnProdElecTotalNonIRENA	Total Nonrenewable Electricity Generation (GWh)	2000-2023.0	
PublnvestBiodeselIRENA	Public Investments (2021 million USD) for biodiesel	2000-2023.0	
PublnvestBiogasIRENA	Public Investments (2021 million USD) for biogas	2000-2023.0	
PublnvestBiogasolineIRENA	Public Investments (2021 million USD) for biogasoline	2000-2023.0	
PublnvestCoalpeatIRENA	Public Investments (2021 million USD) for coal and peat	2000-2023.0	
PublnvestConSolarIRENA	Public Investments (2021 million USD) for concentrated solar power	2000-2023.0	
PublnvestFossilFuelsIRENA	Public Investments (2021 million USD) for fossil fuels n.e.s.	2000-2023.0	
PublnvestGeothermalIRENA	Public Investments (2021 million USD) for geothermal energy	2000-2023.0	
PublnvestLiqBioIRENA	Public Investments (2021 million USD) for liquid biofuels	2000-2023.0	
PublnvestMarineIRENA	Public Investments (2021 million USD) for marine energy	2000-2023.0	
PublnvestMultiRenewIRENA	Public Investments (2021 million USD) for multiple renewables	2000-2023.0	
PublnvestNatGasIRENA	Public Investments (2021 million USD) for natural gas	2000-2023.0	
PublnvestNonReneWasteIRENA	Public Investments (2021 million USD) for non-renewable municipal waste	2000-2023.0	
PublnvestNuclearIRENA	Public Investments (2021 million USD) for nuclear	2000-2023.0	
PublnvestOffGridSolarPHIRENA	Public Investments (2021 million USD) for off grid solar photovoltaic	2000-2023.0	
PublnvestOffShoreWindIRENA	Public Investments (2021 million USD) for offshore wind energy	2000-2023.0	
PublnvestOilIRENA	Public Investments (2021 million USD) for oil	2000-2023.0	
PublnvestOnGridSolarPHIRENA	Public Investments (2021 million USD) for on grid solar photovoltaic	2000-2023.0	
PublnvestOnShoreWindIRENA	Public Investments (2021 million USD) for onshore wind energy	2000-2023.0	
PublnvestOtherSolidBioIRENA	Public Investments (2021 million USD) for other primary solid biofuels n.e.s.	2000-2023.0	
PublnvestPumpedIRENA	Public Investments (2021 million USD) for pumped storage	2000-2023.0	
PublnvestReneWasteIRENA	Public Investments (2021 million USD) for renewable municipal waste	2000-2023.0	
PublnvestReneHydroIRENA	Public Investments (2021 million USD) for renewable hydropower	2000-2023.0	
PublnvestSolarThermalIRENA	Public Investments (2021 million USD) for solar thermal energy	2000-2023.0	

Data Pulling Instructions

1. Navigate to <https://pxweb.irena.org/pxweb/en/IRENASTAT>
2. Choose the data topic
 1. For example; Finance; Public Investments (2022 Million USD) by Country/area, Technology and YearSize: 738 KbModified: 7/23/2025
3. Select All Countries, the right technology according to the table's definition, and all years
4. Click show table
5. Download table as a csv or xlsx

Data Notes

Retrieved from

"[https://pardeewiki.du.edu//index.php?title=Energy_Data,_International_Renewable_Energy_Agency_\(IRENA\)&oldid=13300](https://pardeewiki.du.edu//index.php?title=Energy_Data,_International_Renewable_Energy_Agency_(IRENA)&oldid=13300)"

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