Philippines

8%

6%

4%

2%

0%

-2%

-4%

-6%

-8%

-10%

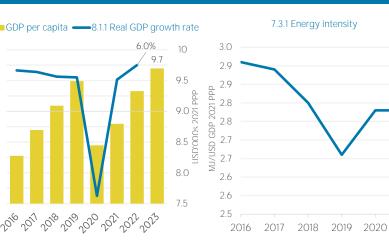
-12%

2016

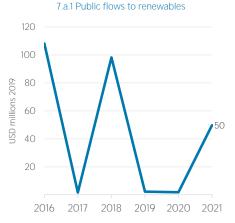


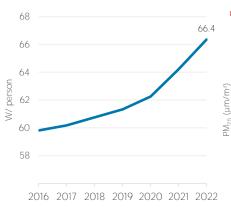
2.8

2021



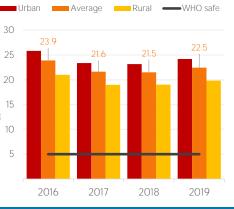
-7.1.1 Access to electricity (% population) 7.1.2 Access to clean cooking (% population) -7.2.1 Renewable energy (% TFEC) 95% 100% 80% 60% 59% 40% 20% 28% 2016 2017 2018 2019 2020 2021 2022





7.b.1 Per capita renewable capacity

11.6.2 Air particulate matter (PM_{2.5})



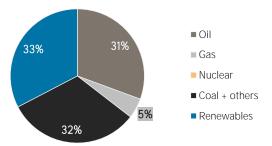
Total Energy Supply (TES) 2021 2016 Non-renewable (TJ) 1 482 770 1 672 591 Renewable (TJ) 773 319 810 633 Total (TJ) 2 256 089 2 483 224 Renewable share (%) 34 33

Growth in TES	2016-21	2020-21
Non-renewable (%)	+12.8	+5.5
Renewable (%)	+4.8	+4.6
Total (%)	+10.1	+5.2

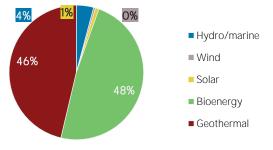
2016	2021
1 375 991	1504737
233 386	247 120
-1142 605	-1 257 617
61	61
20	20
52	50
	1 375 991 233 386 -1 142 605 61 20

TOTAL ENERGY SUPPLY (TES)

Total energy supply in 2021



Renewable energy supply in 2021

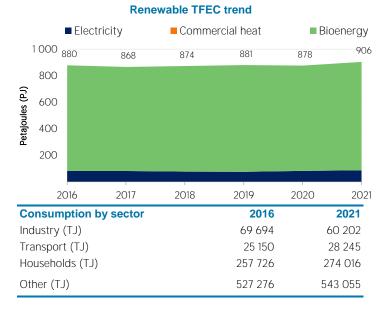


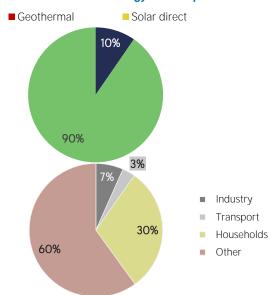


International Renewable Energy Agency

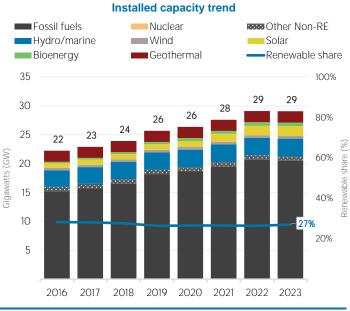
RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable energy consumption in 2021





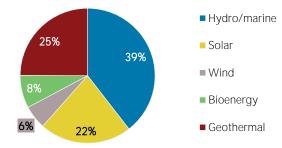
ELECTRICITY CAPACITY



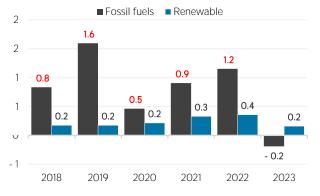
Net capacity change in 2023 (MW)

Non-renewable		Hydro and marine		
	- 189		+	56
Solar		Wind		
	+ 101			0
Bioenergy		Geothermal		
	- 18		+	20

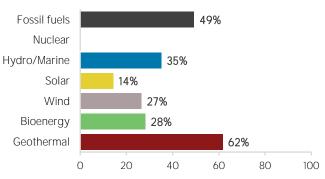
Renewable capacity in 2023



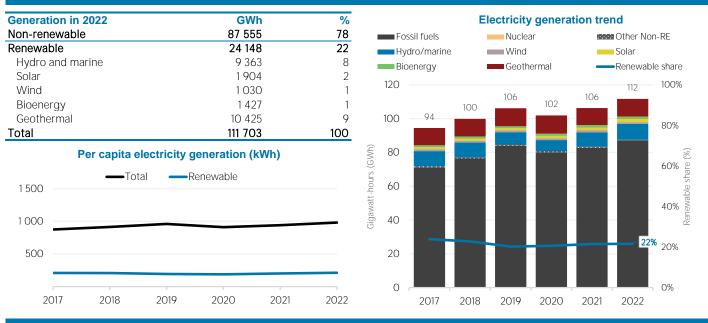
Net capacity change (GW)



Capacity utilisation in 2022 (%)

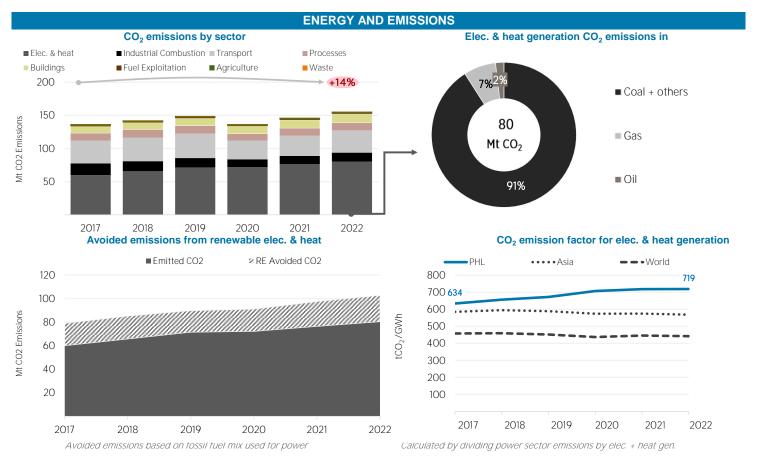


ELECTRICITY GENERATION



LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 Agricultural Fuel Subsidies	2022
2 DENR Administrative Order 2022-04: Enhancing Biodiversity Conservation and Protection in Mining Operations	2022
3 Public Transport Assistance Programme	2022
4 DENR Administrative Order 2021-40	2021
5 Philippine Mineral Reporting Code	2020

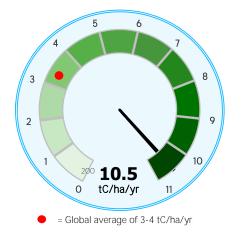


RENEWABLE RESOURCE POTENTIAL



Annual generation per unit of installed PV capacity (MWh/kWp)

Biomass potential: net primary production



 B0%
 Philippines

 80%
 000

 40%
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 20%
 000

 <260</td>
 260-420

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Indicators of renewable resource potential

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

Onshore wind: Potential wind power density (W/m²) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area in each of these classes compared to the global distribution of wind resources. Areas in the third class or above are considered to be a good wind resource.

Blomass: Net primary production (NPP) is the amount of carbon fixed by plants and accumulated as biomass each year. It is a basic measure of biomass productivity. The chart shows the average NPP in the country (tC/ha/yr), compared to the global average NPP of 3-4 tonnes of carbon

Sources: IRENA statistics, plus data from the following sources: UN SDG Database (original sources: WHO; World Bank; IEA; IRENA; and UNSD); UN World Population Prospects: UNSD Energy Balances; UN COMTRADE; World Bank World Development Indicators; EDGAR; REN21 Global Status Report; IEA-IRENA Joint Policies and Measures Database; IRENA Global Atlas; and World Bank Global Solar Atlas and Global Wind Atlas.

Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (H5). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8.760h/year. Avoided emissions from renewable power is calculated as renewable generation divided by fossil fuel generation multiplied by reported emissions from the power sector. This assumes that, if renewable power did not exist, fossil fuels would be used in its place to generate the same amount of power and using the same mix of fossil fuels. In countries and years where no fossil fuel generation occurs, an average fossil fuel emission factor has been used to calculate the avoided emissions.

These profiles have been produced to provide an overview of developments in renewable energy in different countries and areas. The IRENA statistics team would welcome comments and feedback on its structure and content, which can be sent to statistics@irena.org.

Last updated on: 31 July, 2024



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