80 60

20

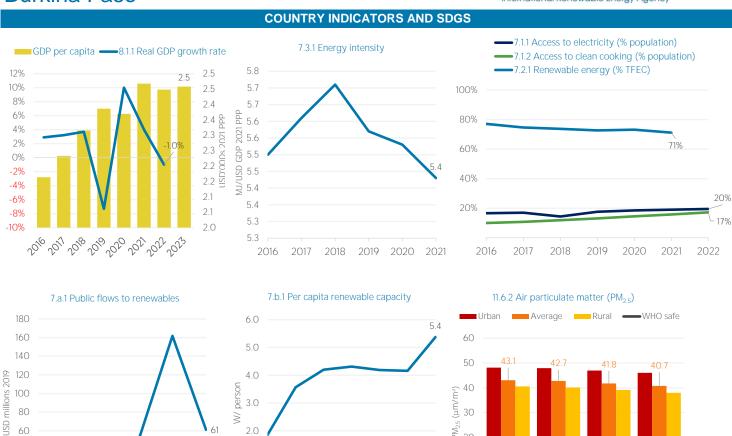
2016

2017

2018

Burkina Faso





TOTAL ENERGY SUPPLY (TES)

2016 2017 2018 2019 2020 2021 2022

PM, 20 10

| Total Energy Supply (TES) | 2016 | 2021 |
|---------------------------|---------|---------|
| Non-renewable (TJ) | 47 987 | 76 435 |
| Renewable (TJ) | 127 886 | 186 458 |
| Total (TJ) | 175 874 | 262 893 |
| Renewable share (%) | 73 | 71 |

2019 2020 2021

2.0

| Growth in TES | 2016-21 | 2020-21 |
|-------------------|---------|---------|
| Non-renewable (%) | +59.3 | +16.9 |
| Renewable (%) | +45.8 | +38.5 |
| Total (%) | +49.5 | +31.4 |

| Primary energy trade | 2016 | 2021 |
|-----------------------------|----------|----------|
| Imports (TJ) | 43 148 | 80 324 |
| Exports (TJ) | 354 | 0 |
| Net trade (TJ) | - 42 794 | - 80 324 |
| | | |
| Imports (% of supply) | 25 | 31 |
| Exports (% of production) | 0 | 0 |
| Energy self-sufficiency (%) | 73 | 71 |

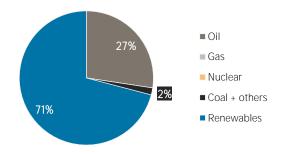
Total energy supply in 2021

2017

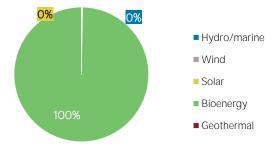
2018

2019

2016

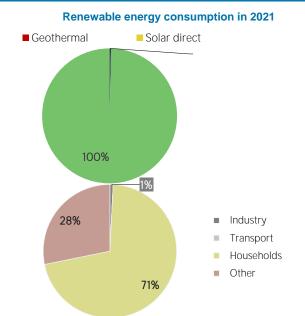


Renewable energy supply in 2021

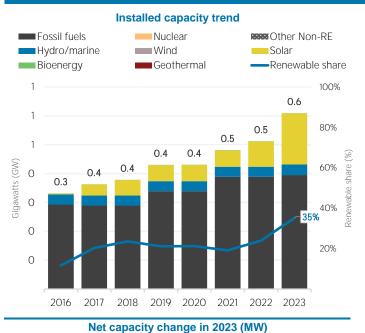


RENEWABLE ENERGY CONSUMPTION (TFEC)

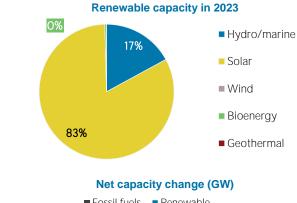
Renewable TFEC trend ■ Electricity ■ Commercial heat ■ Bioenergy 200 186 150 ₁₂₈ 134 131 130 Petajoules (PJ) 100 50 2016 2017 2018 2019 2020 2021 Consumption by sector 2016 2021 Industry (TJ) 830 1 463 Transport (TJ) 0 Households (TJ) 109 013 132 123 Other (TJ) 18 214 52 443

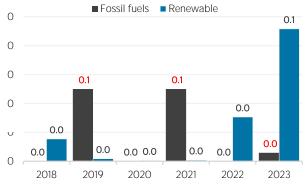


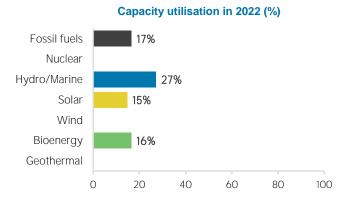
ELECTRICITY CAPACITY





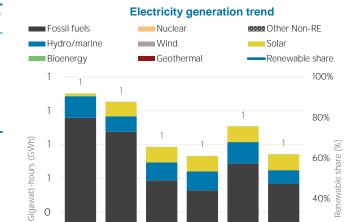






ELECTRICITY GENERATION

| Generation in 2022 | GWh | % |
|--------------------|-----|-----|
| Non-renewable | 566 | 76 |
| Renewable | 177 | 24 |
| Hydro and marine | 82 | 11 |
| Solar | 93 | 13 |
| Wind | 0 | 0 |
| Bioenergy | 1 | 0 |
| Geothermal | 0 | 0 |
| Total | 742 | 100 |

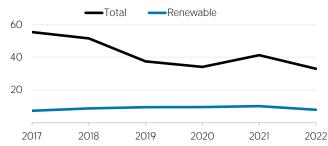


20%

0%

2022

Per capita electricity generation (kWh)



Avoided emissions based on tossil tuel mix used tor power

LATEST POLICIES, PROGRAMMES AND LEGISLATION

0

0

2017

2018

2019

2020

Calculated by dividing power sector emissions by elec. + heat gen.

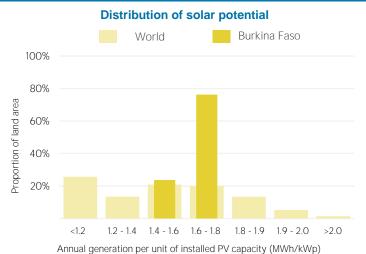
2021

| 1 Law 053-2012 on general regulation of the electricity sub sector | 2013 |
|---|------|
| 2 Sectorial Policy of Energy | 2013 |
| 3 Lighting Africa solar lantern project in Burkina Faso | 2009 |
| 4 Decree 2000-628 on the Letter of Energy Sector Development Policy | 2000 |

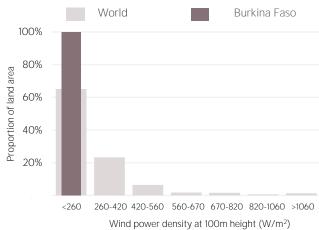
5

ENERGY AND EMISSIONS CO₂ emissions by sector Elec. & heat generation CO₂ emissions in ■ Elec. & heat ■ Industrial Combustion ■ Transport ■ Processes Buildings ■ Fuel Exploitation ■ Agriculture ■Waste 0% 7 +34% ■ Coal + others 6 5 Mt CO2 Emissions 1.0 ■ Gas 4 Mt CO₂ 3 2 ■ Oil 100% 1 2022 2017 2018 2019 2020 2021 Avoided emissions from renewable elec. & heat CO₂ emission factor for elec. & heat generation ■ Emitted CO2 ☑ RE Avoided CO2 BFA ••••Africa 1,323 1 400 1200 1 1000 tCO₂/GWh 800 730 0.8 600 0.6 400 0.4 200 0.2 2017 2018 2019 2020 2021 2022 2017 2021 2022 2018 2019 2020

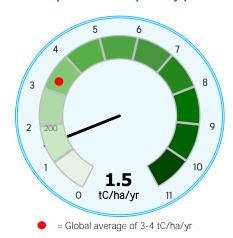
RENEWABLE RESOURCE POTENTIAL



Distribution of wind potential



Biomass potential: net primary production



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.

Biomass: 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



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.

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