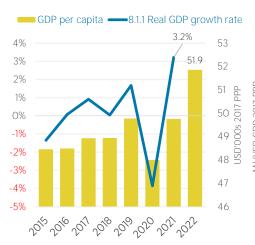
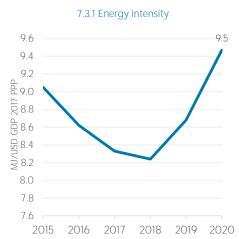
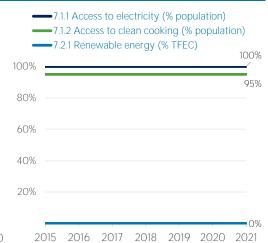
Bahrain



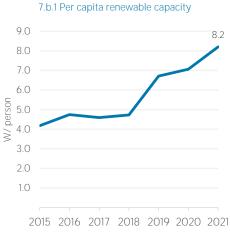
COUNTRY INDICATORS AND SDGS

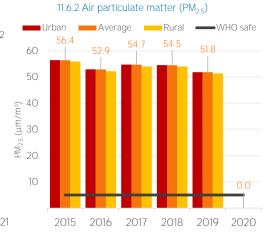






7.a.1 Public flows to renewables 1.0 0.9 0.8 0.7 USD millions 2019 0.6 0.5 0.4 0.3 0.2 0.1 0 2015 2016 2017 2018 2019 2020





TOTAL ENERGY SUPPLY (TES)

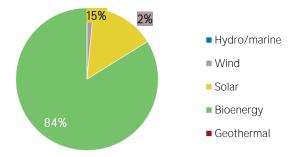
| Total Energy Supply (TES) | 2015 | 2020 |
|---------------------------|---------|---------|
| Non-renewable (TJ) | 576 721 | 666 335 |
| Renewable (TJ) | 456 | 286 |
| Total (TJ) | 577 177 | 666 621 |
| Renewable share (%) | 0 | 0 |
| | | |

| Growth in TES | 2015-20 | 2019-20 |
|-------------------|---------|---------|
| Non-renewable (%) | +15.5 | -0.3 |
| Renewable (%) | -37.2 | -12.3 |
| Total (%) | +15.5 | -0.3 |

| Primary energy trade | 2015 | 2020 |
|-----------------------------|---------|---------|
| Imports (TJ) | 474 658 | 395 561 |
| Exports (TJ) | 839 419 | 785 759 |
| Net trade (TJ) | 364 761 | 390 198 |
| | | |
| Imports (% of supply) | 82 | 59 |
| Exports (% of production) | 88 | 75 |
| Energy self-sufficiency (%) | 166 | 157 |
| | | |

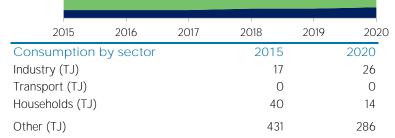
Total energy supply in 2020 0% 0% 9% Oil Gas Nuclear Coal + others Renewables

Renewable energy supply in 2020

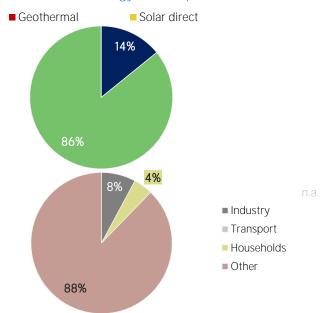


RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable TFEC trend Electricity Commercial heat Bioenergy 0 0 0 0 0 0

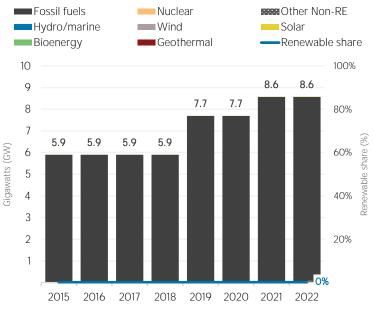


Renewable energy consumption in 2020

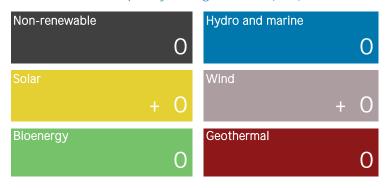


ELECTRICITY CAPACITY

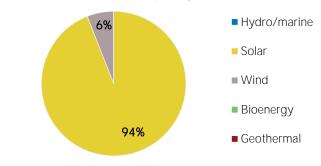
Installed capacity trend



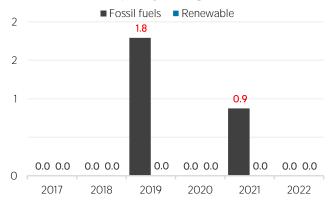
Net capacity change in 2022 (MW)



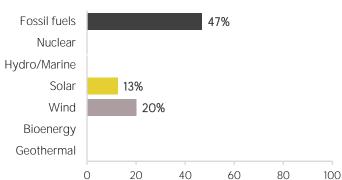
Renewable capacity in 2022



Net capacity change (GW)



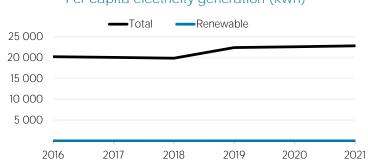
Capacity utilisation in 2021 (%)



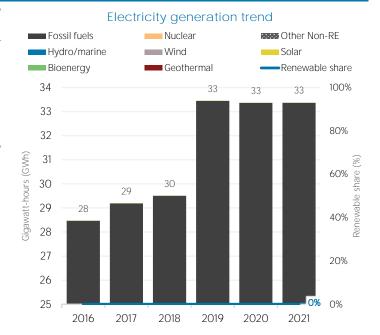
ELECTRICITY GENERATION

| Generation in 2021 | GWh | % |
|--------------------|--------|-----|
| Non-renewable | 33 364 | 100 |
| Renewable | 13 | 0 |
| Hydro and marine | 0 | 0 |
| Solar | 12 | 0 |
| Wind | 1 | 0 |
| Bioenergy | 0 | 0 |
| Geothermal | 0 | 0 |
| Total | 33 377 | 100 |



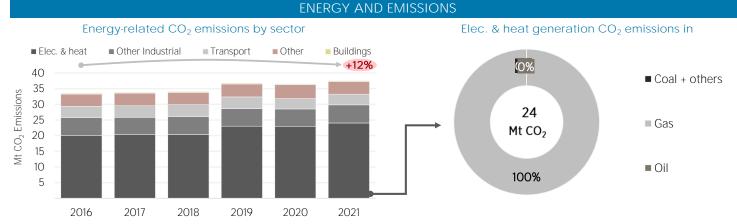


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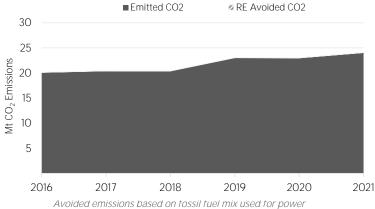


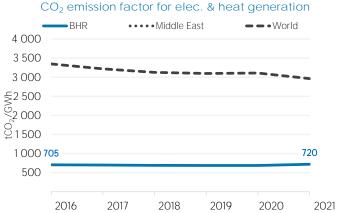
LATEST POLICIES, PROGRAMMES AND LEGISLATION

| 1 National Energy Efficiency Action Plan (NEEAP) | 2017 |
|---|------|
| 2 Regulations on Energy Labelling and Minimum Energy Performance Requirements for Air Conditioners | 2016 |
| 3 GSO ISO 5151 Non-ducted air conditioners and heat Pumps - Testing and rating for Performance | 2010 |
| 4 GSO ISO 13253 Ducted air-conditioners and air-to-air heat pumps- Testing and rating for performance | 2009 |



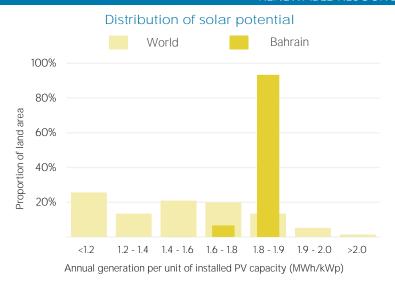
Avoided emissions from renewable elec. & heat



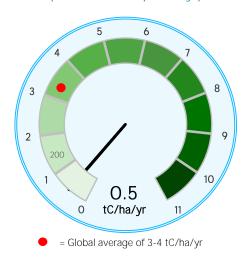


Calculated by dividing power sector emissions by elec. + heat gen.

RENEWABLE RESOURCE POTENTIAL



Biomass potential: net primary production



Indicators of renewable resource potential

Wind power density at 100m height (W/m²)

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

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 (HS). 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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