Chile

COUNTRY INDICATORS AND SDGS







WHO safe

20.5

2019

-

11.6.2 Air particulate matter (PM_{2.5})

Average Rural

Urban

5

2016

International Renewable Energy Agency





2021

31

7.b.1 Per capita renewable capacity

TOTAL ENERGY SUPPLY (TES)

Total energy supply in 2021

2017

2018







Total Energy Supply (TES) 2016 Non-renewable (TJ) 1 153 203 1170 252 Renewable (TJ) 433 559 519 887 Total (TJ) 1586762 1 690 139 Renewable share (%) 27 Growth in TES 2020-21 2016-21

Non-renewable (%)	+1.5	+5.0
Renewable (%)	+19.9	+7.9
Total (%)	+6.5	+5.9

Primary energy trade	2016	2021
Imports (TJ)	1 142 716	1 177 101
Exports (TJ)	50 139	39 171
Net trade (TJ)	-1 092 577	-1 137 930
Imports (% of supply)	72	70
Exports (% of production)	9	7
Energy self-sufficiency (%)	33	34

RENEWABLE ENERGY CONSUMPTION (TFEC)

Renewable energy consumption in 2021





ELECTRICITY CAPACITY



Net capacity change in 2023 (MW)

Non-renewable		Hydro and marine		
	- 526		+	182
Solar		Wind		
	+ 2 211		+	681
Bioenergy		Geothermal		
	+ 32		+	32



Net capacity change (GW)







ELECTRICITY GENERATION



LATEST POLICIES, PROGRAMMES AND LEGISLATION

1 Chile - EU Strategic Partnership on sustainable raw materials value chains	2023
2 Mining Royalty Bill	2023
3 National Lithium Strategy	2023
4 Inclusive Recovery Plan- Electricity subsidies (Energy Emergency and Stabilisation Fund)	2022
5 Inclusive Recovery Plan- Pilot Gas distribution scheme	2022



RENEWABLE RESOURCE POTENTIAL



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

Biomass potential: net primary production



Distribution of wind potential World Chile 100% 80% 60% 40% 20% 80%

60%

40%

20%

<260</td>

260-420

40-420-560

560-670

670-820

820-1060

>1060

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

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 (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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IRENA Headquarters Masdar City P.O. Box 236, Abu Dhabi United Arab Emirates www.irena.org