



CHAPTER 7

TRACKING SDG 7 PROGRESS ACROSS TARGETS: INDICATORS AND DATA

A robust framework of indicators and statistical data is critical for tracking progress in policy goals, making evidence-based decisions, and ensuring accountability of stakeholders. Well-designed energy data collection with relevant resources strengthens national energy statistics and balances. The enhanced energy statistical systems help countries monitor their progress toward achieving Sustainable Development Goal (SDG) 7.

Continuous improvements in national data systems increase the quality of global tracking, as countries establish legal frameworks and institutional arrangements for comprehensive data collection of supply- and demand data for energy balances; implement end-user surveys (households, businesses, etc.); and develop quality-assurance frameworks. Institutional arrangements are set up to optimize data production, exchange, and governance across organizations, mainly statistical offices, and government agencies (energy ministries) responsible for implementing energy policies. Quality-assurance frameworks should be consistent with the United Nations' International Recommendations for Energy Statistics. Under IRES (United Nations 2018), data quality is marked by relevance, accuracy, and reliability; timeliness and punctuality; coherence and comparability; and accessibility and clarity. For quality-assurance frameworks, please refer to IRES, chapter IX.

The global tracking in this report is a collaboration among the custodian agencies responsible for the SDG 7 targets. Jointly, the agencies disseminate comparable datasets worldwide to improve the quality of global tracking. The World Bank and World Health Organization are responsible for tracking progress toward SDG target 7.1 (universal access). The International Energy Agency (IEA), International Renewable Energy Agency (IRENA), and United Nations Statistics Division (UNSD) are responsible for SDG target 7.2 (renewables). IEA and UNSD are responsible for SDG target 7.3 (energy efficiency). IRENA and the Organisation for Economic Co-operation and Development (OECD) jointly tracked target 7.a (international cooperation). IRENA is responsible for target 7.b (infrastructure and technology).

This chapter introduces the global indicators for the SDG 7 targets (table 7.1), followed by the data tables. For further information on the methodologies and approaches used for SDG 7 progress assessment, please refer to the final sections of each chapter or the United Nations' metadata repository for SDG 7 indicators.¹

Table 7.1 • Targets and indicators for SDG 7

Target	Indicator
7.1—By 2030, ensure universal access to affordable, reliable, and modern energy services	7.1.1—Proportion of population with access to electricity
	7.1.2—Proportion of population with primary reliance on clean fuels and technology for cooking
7.2—By 2030, increase substantially the share of renewable energy in the global energy mix	7.2.1—Renewable energy share in total final energy consumption
7.3—By 2030, double the global rate of improvement in energy efficiency	7.3.1—Energy intensity measured in terms of primary energy and GDP
7.a—By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency, and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	7.a.1—International financial flows to developing countries in support of clean energy research and development and renewable energy production, including in hybrid systems
7.b—By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing states, and landlocked developing countries, in accordance with their respective programs of support	7.b.1—Installed renewables-based generating capacity in developing countries (in watts per capita)

1 Metadata repository for SDG Indicators: <https://unstats.un.org/sdgs/metadata/>

ACCESS TO ELECTRICITY

Measuring access enables governments and practitioners to understand the status of electricity access and to implement the 2030 agenda in more efficient ways. Tracking progress on electrification is a complex process that must be conducted across interventions by national and international players, including governments, energy utilities, private sector companies, funding agencies, and multilateral development organizations. The socioeconomic complexity of low-income and fragile countries has raised particular challenges in tracking progress. In addition, the scaling-up of decentralized energy solutions encompasses a mix of technologies, such as grids, mini-grids, and off-grid solutions. Therefore, measuring cumulative progress requires a universally applicable and transparent approach.

Most microdata from household, enterprise, and agricultural surveys provide energy practitioners and ministries of energy with useful information. However, data collection requires substantial efforts to understand socioeconomic effects and energy access status. Thus, data should be standardized to help end users employ such datasets effectively in project design and policy formulation.

Assessments should include the number of people benefitting from the interventions and the nature and magnitude of improvements in electrification. To identify investment priorities and better track progress, several international agencies worked together to produce the Multi-Tier Framework (MTF), launched in 2016, which national statistical offices and international agencies use to measure a spectrum of service levels experienced by households—capacity, availability, reliability, affordability, quality, formality, and health and safety. The contributing agencies for the development of the MTF were the Energizing Development Program (EnDev), the Energy Sector Management Assistance Program at the World Bank, the Global Alliance for Clean Cookstoves, IEA, Practical Action Consulting, the UN Development Programme, the UN Industrial Development Organization, the World Bank, and WHO.

Where data are not available for multi-tier metrics, standardized country-level surveys and supply-side administrative data complement the MTF approach.

To improve the tracking of access to electricity, the capacity of national statistical offices to collect energy data must be further developed (e.g., workshops)² and the usability of datasets improved by helping governments and energy practitioners apply new technology and data analytics, as survey design can be interrupted by outdated surveys or infrequent publication of censuses. Finally, exploring the use of large-scale open databases, such as satellite data, will help identify energy access and quality gaps, as well as socioeconomic trends.

² The World Bank and UN Economic and Social Commission for Western Asia organized a webinar on SDG indicator 7.1.1 to create a common understanding among data producers on data methodology. More details are available at https://www.unescwa.org/sites/default/files/event/materials/Report%20-%20ESCWA_World%20Bank%207.1.pdf

ACCESS TO CLEAN FUELS AND TECHNOLOGIES FOR COOKING

Cooking is a universal household energy need. To track progress away from health-damaging cooking practices, SDG 7.1.2 measures the number of people using clean fuels and technologies as their main energy source for cooking in the household. Households considered to have access to clean cooking are those primarily relying on electricity, biogas, solar, alcohol fuels, natural gas, and liquefied petroleum gas (LPG) for household cooking. Here, “clean” refers to the emission rate targets from specific fuels and technologies.

Household surveys are currently the main primary data source for analyzing the fuels and technologies used for cooking. The extent to which these surveys comprehensively capture modes and duration of fuel and technology use is therefore vital for designing, implementing, and monitoring the effectiveness and outcomes of clean cooking policies and programs. Improved data collection on the parallel use of multiple cooking solutions (also known as “stove stacking”) in households in low- and middle-income countries delivers more complete representation of the population exposed to pollution and the resultant diseases. In addition, country-level estimates of clean cooking access are used to understand the disease incidence rate caused by household air pollution—ultimately the “mortality rate from the joint effects of ambient and household air pollution,” an important SDG indicator for environmental health (SDG indicator 3.9.1).

Country and regional estimates are produced using a Bayesian multilevel model to monitor the SDG 7 on access to clean cooking as well as the SDG 3 target on health impacts from air pollution, as detailed in the methodology section of chapter 2.

Enhanced surveys can also better help monitor the trends and outcomes of clean cooking access. For instance, the clean cooking access estimates in this report were generated by combining advanced modeling techniques with robust data on the specific fuels mainly used by households for cooking. This enabled a richer disaggregation of estimates into the specific fuels used, including biomass, charcoal, coal, kerosene, gaseous fuels, and electricity across countries and regions (Stoner et al. 2021).³ Employing the specific fuel-use estimates, decision-makers can more readily track the trends and outcomes of policy changes, such as subsidies and tariffs.

Refinement in household surveys and censuses enables countries to gain a more complete picture of household energy use, notably clean cooking fuels and technologies, and their effects on air pollution. Steps have already been taken in this direction to develop a harmonized and robust set of questions for national household surveys and censuses.

³ These estimates are available for download from <https://www.who.int/data/gho/data/themes/topics/topic-details/GHO/household-air-pollution>.

RENEWABLE ENERGY

The share of renewables in total final energy consumption (TFEC) is assessed to track progress toward the SDG 7.2 target for renewable energy. Good tracking of renewable energy depends on comprehensive data across all energy sources (renewable and nonrenewable) and sectors of supply, transformation, and final consumption. The computation of the indicator is based on the availability of a full supply-demand energy balance and certain assumptions about electricity and heat. IRES (United Nations 2018) details the methodology used to derive TFEC, the total energy supply, and energy balances.

Two of the main methodological challenges in increasing the accuracy of tracking renewables are (1) monitoring the rapid development of geographically distributed sources, such as off-grid and micro-grid solar PV and wind, and (2) improving the capacity of countries to measure traditional uses of biomass (solid biofuels) by households, the largest share of renewable energy in developing countries.

Enhancements to national-level household and industry surveys are essential to improve the quality of data for solid biofuel use in households. Survey-based results are valuable in filling data gaps, and they commonly lead to significant revisions of previous estimates, affecting the tracking of SDG target 7.2.

A broader range of questions about biomass is needed to determine the extent to which its use can be considered sustainable. For example, traditional fuelwood harvesting is associated with deforestation, although forests are technically considered renewable.

ENERGY EFFICIENCY

Energy intensity is measured to track SDG target 7.3 for energy efficiency. It is defined as the ratio of total energy supply to economic output.⁴ Total energy supply comprises energy production across all sectors and trade in all types of energy products. The supply information is collected from administrative sources or through surveys of higher-level players, such as energy suppliers.⁵ The information includes commercially traded energy sources and is of fairly good quality in most countries.

Tracking energy intensity is best done in conjunction with analysis of demand drivers across sectors, such as industry, transport, and buildings—both residential and services. Due to the diverse nature of end users, demand-side data collection tends to be more complex, time-consuming, and expensive than supply-side collection. Direct consumer surveys can complement data collection when energy suppliers cannot provide detailed information on how much energy is consumed by different types of users.

To analyze sectoral energy efficiency countries need to monitor intensities at the end-use level, at least in priority sectors. Examples of energy efficiency indicators include energy per passenger-kilometer (or tonne-km for freight), by vehicle type, for transport; energy for space heating/cooling per area, for buildings; energy per amount of physical production of a good, for industry. A methodological framework for energy efficiency indicators, as well as country experiences, can be found in IEA (2014).

Along with finer disaggregation of data, energy efficiency indicators require more coordination across entities related to activities beyond the energy sector, encompassing building records, vehicle registrations, industrial reports, and so on. Many countries have begun to collect end-use data and compile energy efficiency indicators to support their policy-making and planning.⁶

4 For more details, see IRES (United Nations 2018).

5 Data collected by various agencies in response to legislation and/or regulation, not necessarily for statistical purposes, may be used to compile energy statistics after ensuring quality and addressing limitations related to their different purposes.

6 Examples of projects are the IEA energy efficiency indicators, <https://www.iea.org/reports/energy-efficiency-indicators-overview> for IEA member countries and beyond; and the Odyssee database for Europe, <https://www.indicators.odyssee-mure.eu/>.

INTERNATIONAL FINANCIAL FLOWS TO DEVELOPING COUNTRIES IN SUPPORT OF CLEAN AND RENEWABLE ENERGY

To improve international collaboration, SDG indicator 7.a.1 tracks international public financial flows to developing countries in support of clean energy research and development and renewable energy production, including hybrid systems. The measurement of public financial flows draws from the databases prepared by IRENA and OECD. Because data on financial flows are susceptible to changes, scrupulous attention is needed to ensure standardized data collection and management cycles, and to revise commitment values.

There are four components to good measurement of international public investment flows: (1) tracking financial flows; (2) standardizing commitment details; (3) centralizing data collection; and (4) presenting flows in a constant way.

To track public financial flows, it is critical to understand how aid recipients intend to spend the investments for end-use projects or programs. (“Recipients” include end-use organizations and projects run by public investors.) The amount of private finance leveraged through public funds, already tracked by the OECD in its data on mobilizing private finance, makes a good complement to analyses of public financial flows. After the initial commitment, international financial flows are generally disbursed in multiple phases, passing through local governments, ventures, or funds. Some commitments may be cancelled or modified, affecting the data gathered to that point. Thus, where reporting institutions revise financial investment figures, historical investment information covering several years should be included to disclose any changes in amounts.

Commitment details can be standardized by sharing best practices among public investors and donors, refining reporting directives, and encouraging public investors and donors to provide energy details that comply with international standards. Standardization increases reporting accuracy for public financial flows, while also improving the level of commitment details. Details about commitments include technology, type of finance (e.g., project-level finance, infrastructure, research, or technical assistance), type of financial mechanism, and so on.

Collections of investment data often fail to take in energy-related details. Currently, the collection of most data on public investments in clean energy and renewables remains decentralized, reducing consistency. Therefore, data collection should be centralized through the use of preformatted questionnaires and online data-entry portals for comparability across public donors. The OECD’s CRS database is exemplary in this regard.

International commitments need to adjust exchange rates and inflation to compare flows across countries. The flows should be deflated properly by countries and other institutions to account for currency rate changes and inflation. OECD methodology is used to deflate international flows by adjusting for inflation from the year the flows occurred to a baseline year (2019) and by converting local-currency values to U.S. dollars using exchange rates from the baseline year (2019).

INSTALLED RENEWABLE ELECTRICITY-GENERATING CAPACITY IN DEVELOPING COUNTRIES

Indicator 7.b.1 tracks the installed capacity of power plants that generate electricity from renewable energy sources, divided by the total population of a country. Capacity is defined as the net maximum electrical capacity installed at year-end. Capacity is a useful measure of progress toward this target because it reflects country priorities: Many countries have increased production of electricity (particularly, renewable electricity) as a priority in their transition to modern and sustainable services. Renewable sources, according to the IRENA statute, are the following: hydropower; marine energy (ocean, tidal and wave energy); wind energy; solar energy (photovoltaic and thermal energy); bioenergy; and geothermal energy.

The capacity data are collected in the course of IRENA's annual questionnaire cycle. Countries receive questionnaires at the beginning of each year and report renewable energy data over the previous two years. The validated data by country are published each year in late June in IRENA's Renewable Energy Statistics Yearbook. Population data are extracted from the World Population Prospects, published by the United Nations Population Division. The population data represent the total population of a country at mid-year (July 1).

A measure of indicator 7.b.1 in watts per capita is computed by dividing renewable electricity generating capacity at year-end by the total population of the country for each country and year. The capacity data are drawn from the computation, and the data account for the immense variations in needs between countries. Population data are used instead of GDP, as population is the most basic indicator of country demand for modern and sustainable energy services.

The focus of this indicator on electricity capacity does not capture trends in the modernization of technologies used to produce heat or provide energy for transport, since electricity only accounts for about one-quarter of total energy use globally and an even lower share in most developing countries. However, with the trend toward electrification of end uses, electricity will become an increasingly reliable indicator of progress on electrification in developing countries.

CONCLUSION

Tracking global progress toward the targets of SDG 7 requires high-quality and reliable data for informed and effective policy-making at the global, regional, and country levels. Along with common frameworks for surveys, standardized methodologies for indicators are also needed. The quality of data can be improved through national and international cooperation and solid statistical capacity at the national level.

Collaboration between national statistical offices and relevant international or regional organizations across policy domains optimizes the use of data-collection resources. For example, household surveys can be designed to support tracking at end-use levels across SDG 7 targets and even other SDG targets, such as health, air pollution, and quality of life. The World Bank and the WHO have prepared a guidebook to integrate energy access questions into existing national household surveys to better track household energy use toward SDG 7.1 target (World Bank and WHO 2021). More support is needed to develop statistical capacity in countries and regions.

International cooperation in the compilation of global databases raises awareness of the need for good-quality data. As the custodian agencies work together on global tracking of SDG 7, they have found ways to refine their collaboration and to strengthen their support to countries. As an example, thanks to dedicated funding from the European Union, the IEA program on Sub-Saharan Africa works to improve energy statistics in ten focus countries. The SDG 7 custodian agencies emphasize the need to integrate funding for national energy data collection within current and planned international programs on energy transitions.

The custodian agencies appreciate the dedication and hard work of all the colleagues who contribute to energy data collection across national administrations. Thanks to their devoted work, the custodians have been able to improve tracking as part of the international effort to achieve the SDG 7 targets.

REGIONAL CLASSIFICATIONS OF COUNTRIES/TERRITORIES

This report classifies countries and territories according to the United Nations' SDG classification for regions, the MDG (Millennium Development Goals) classification for developing countries, and the special groupings for the least-developed countries (LDCs), landlocked developing countries (LLDCs), and small island developing states (SIDS). The SDG regional groupings are not the same as the M49 regional grouping that more closely distinguishes the geographical location of countries. The United Nations discontinued the developing countries classification in late 2021. This report will continue to use the most recent UN classification of developing countries to ensure continuity for indicators 7.a.1 and 7.b.1/12.a.1.

The groupings used in this report are presented in the table below.

Classification group	Countries/territories
Northern America and Europe 57 countries	Åland Islands, Albania, Andorra, Austria, Belarus, Belgium, Bermuda, Bosnia and Herzegovina, Bulgaria, Canada, Channel Islands, Croatia, Czechia, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Guernsey, Holy See, Hungary, Iceland, Ireland, Isle of Man, Italy, Jersey, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, Saint Pierre and Miquelon, San Marino, Serbia, Slovakia, Slovenia, Spain, Svalbard and Jan Mayen Islands, Sweden, Switzerland, Republic of North Macedonia, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America
Sub-Saharan Africa 53 countries	Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cabo Verde, Cameroon, Central African Republic, Chad, Comoros, Congo, Côte d'Ivoire, Democratic Republic of the Congo, Djibouti, Equatorial Guinea, Eritrea, Ethiopia, French Southern and Antarctic Territories, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, Saint Helena, São Tome and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Eswatini, Togo, Uganda, United Republic of Tanzania, Zambia, Zimbabwe
Latin America and the Caribbean 51 countries	Anguilla, Antigua and Barbuda, Argentina, Aruba, Bahamas, Barbados, Belize, Bolivia (Plurinational State of), Bonaire, Sint Eustatius and Saba, Brazil, British Virgin Islands, Cayman Islands, Chile, Colombia, Costa Rica, Cuba, Curaçao, Dominican Republic, Ecuador, El Salvador, Falkland Islands (Malvinas), French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Montserrat, Nicaragua, Panama, Paraguay, Peru, Puerto Rico, Saint Barthélemy, Saint Kitts and Nevis, Saint Lucia, Saint Martin (French Part), Saint Vincent and the Grenadines, Sint Maarten (Dutch part), South Georgia and the South Sandwich Islands, Suriname, Trinidad and Tobago, Turks and Caicos Islands, United States Virgin Islands, Uruguay, Venezuela (Bolivarian Republic of)
Western Asia and Northern Africa 25 countries	Algeria, Armenia, Azerbaijan, Bahrain, Cyprus, Egypt, Georgia, Iraq, Israel, Jordan, Kuwait, Lebanon, Libya, Morocco, Oman, Qatar, Saudi Arabia, State of Palestine, Sudan, Syrian Arab Republic, Tunisia, Turkey, United Arab Emirates, Western Sahara, Yemen

Oceania, excluding Australia and New Zealand 23 countries	American Samoa, Cook Islands, Fiji, French Polynesia, Guam, Kiribati, Marshall Islands, Micronesia (Federated States of), Nauru, New Caledonia, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Pitcairn, Samoa, Solomon Islands, Tokelau, Tonga, Tuvalu, United States minor outlying islands, Vanuatu, Wallis and Futuna Islands
Eastern Asia and South-eastern Asia 18 countries	Brunei Darussalam, Cambodia, China, China, Hong Kong Special Administrative Region, China, Macao Special Administrative Region, Democratic People's Republic of Korea, Indonesia, Japan, Lao People's Democratic Republic, Malaysia, Mongolia, Myanmar, Philippines, Republic of Korea, Singapore, Thailand, Timor-Leste, Viet Nam
Central Asia and Southern Asia 14 countries	Afghanistan, Bangladesh, Bhutan, India, Iran (Islamic Republic of), Kazakhstan, Kyrgyzstan, Maldives, Nepal, Pakistan, Sri Lanka, Tajikistan, Turkmenistan, Uzbekistan
Australia and New Zealand 6 countries	Australia, Christmas Island, Cocos (Keeling) Islands, Heard Island and McDonald Islands, New Zealand, Norfolk Island
Developed countries 66 countries	Åland Islands, Albania, Andorra, Australia, Austria, Belarus, Belgium, Bermuda, Bosnia and Herzegovina, Bulgaria, Canada, Channel Islands, Christmas Island, Cocos (Keeling) Islands, Croatia, Cyprus, Czechia, Denmark, Estonia, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Guernsey, Heard Island and McDonald Islands, Holy See, Hungary, Iceland, Ireland, Isle of Man, Israel, Italy, Japan, Jersey, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Monaco, Montenegro, Netherlands, New Zealand, Norfolk Island, Norway, Poland, Portugal, Republic of Moldova, Romania, Russian Federation, Saint Pierre and Miquelon, San Marino, Serbia, Slovakia, Slovenia, Spain, Svalbard and Jan Mayen Islands, Sweden, Switzerland, Republic of North Macedonia, Ukraine, United Kingdom of Great Britain and Northern Ireland, United States of America
Developing countries 181 countries	Afghanistan, Algeria, American Samoa, Angola, Anguilla, Antigua and Barbuda, Argentina, Armenia, Aruba, Azerbaijan, Bahamas, Bahrain, Bangladesh, Barbados, Belize, Benin, Bhutan, Bolivia (Plurinational State of), Bonaire, Sint Eustatius and Saba, Botswana, Brazil, British Indian Ocean Territory, British Virgin Islands, Brunei Darussalam, Burkina Faso, Burundi, Cabo Verde, Cambodia, Cameroon, Cayman Islands, Central African Republic, Chad, Chile, China, China, Hong Kong Special Administrative Region, China, Macao Special Administrative Region, Colombia, Comoros, Congo, Cook Islands, Costa Rica, Côte d'Ivoire, Cuba, Curaçao, Democratic People's Republic of Korea, Democratic Republic of the Congo, Djibouti, Dominica, Dominican Republic, Ecuador, Egypt, El Salvador, Equatorial Guinea, Eritrea, Ethiopia, Falkland Islands (Malvinas), Fiji, French Guiana, French Polynesia, French Southern and Antarctic Territories, Gabon, Gambia, Georgia, Ghana, Grenada, Guadeloupe, Guam, Guatemala, Guinea, Guinea-Bissau, Guyana, Haiti, Honduras, India, Indonesia, Iran (Islamic Republic of), Iraq, Jamaica, Jordan, Kazakhstan, Kenya, Kiribati, Kuwait, Kyrgyzstan, Lao People's Democratic Republic, Lebanon, Lesotho, Liberia, Libya, Madagascar, Malawi, Malaysia, Maldives, Mali, Marshall Islands, Martinique, Mauritania, Mauritius, Mayotte, Mexico, Micronesia (Federated States of), Mongolia,Montserrat, Morocco, Mozambique, Myanmar, Namibia, Nauru, Nepal, New Caledonia, Nicaragua, Niger, Nigeria, Niue, Northern Mariana Islands, Oman, Pakistan, Palau, Panama, Papua New Guinea, Paraguay, Peru, Philippines, Pitcairn, Puerto Rico, Qatar, Republic of Korea, Réunion, Rwanda, Saint Barthélemy, Saint Helena, Saint Kitts and Nevis, Saint Lucia, Saint Martin (French Part), Saint Vincent and the Grenadines, Samoa, São Tome and Príncipe, Saudi Arabia, Senegal, Seychelles, Sierra Leone, Singapore, Sint Maarten (Dutch part), Solomon Islands, Somalia, South Africa, South Georgia and the South Sandwich Islands, South Sudan, Sri Lanka, State of Palestine, Sudan, Suriname, Eswatini, Syrian Arab Republic, Tajikistan, Thailand, Timor-Leste, Togo, Tokelau, Tonga, Trinidad and Tobago, Tunisia, Turkey, Turkmenistan, Turks and Caicos Islands, Tuvalu, Uganda, United Arab Emirates, United Republic of Tanzania, United States minor outlying islands, United States Virgin Islands, Uruguay, Uzbekistan, Vanuatu, Venezuela (Bolivarian Republic of), Viet Nam, Wallis and Futuna Islands, Western Sahara, Yemen, Zambia, Zimbabwe

Least-developed countries (LDCs) 46 countries	Afghanistan, Angola, Bangladesh, Benin, Bhutan, Burkina Faso, Burundi, Cambodia, Central African Republic, Chad, Comoros, Democratic Republic of the Congo, Djibouti, Eritrea, Ethiopia, Gambia, Guinea, Guinea-Bissau, Haiti, Kiribati, Lao People's Democratic Republic, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mozambique, Myanmar, Nepal, Niger, Rwanda, Sao Tome and Principe, Senegal, Sierra Leone, Solomon Islands, Somalia, South Sudan, Sudan, Timor-Leste, Togo, Tuvalu, Uganda, United Republic of Tanzania, Yemen, Zambia
Landlocked developing countries (LLDCs) 30 countries ⁷	Afghanistan, Armenia, Azerbaijan, Bhutan, Bolivia (Plurinational State of), Botswana, Burkina Faso, Burundi, Central African Republic, Chad, Ethiopia, Kazakhstan, Kyrgyzstan, Lao People's Democratic Republic, Lesotho, Malawi, Mali, Mongolia, Nepal, Niger, Paraguay, Rwanda, South Sudan, Eswatini, Tajikistan, Turkmenistan, Uganda, Uzbekistan, Zambia, Zimbabwe
Small island developing states (SIDS) 53 countries	American Samoa, Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bonaire, Sint Eustatius and Saba, British Virgin Islands, Cabo Verde, Comoros, Cook Islands, Cuba, Curaçao, Dominica, Dominican Republic, Fiji, French Polynesia, Grenada, Guam, Guinea-Bissau, Guyana, Haiti, Jamaica, Kiribati, Maldives, Marshall Islands, Mauritius, Micronesia (Federated States of), Montserrat, Nauru, New Caledonia, Niue, Northern Mariana Islands, Palau, Papua New Guinea, Puerto Rico, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Samoa, Sao Tome and Principe, Seychelles, Singapore, Sint Maarten (Dutch part), Solomon Islands, Suriname, Timor-Leste, Tonga, Trinidad and Tobago, Tuvalu, United States Virgin Islands, Vanuatu

⁷ The Republic of Moldova and the Republic of North Macedonia are categorised as LLDCs but also as developed countries. As such, both are excluded from the LLDC category and from indicators 7.a.1 and 7.b.1/12.a.1

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SDG 7.1.1 - ACCESS TO ELECTRICITY

Source: World Bank

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Afghanistan	2	25	43	d	72	d	98
Albania	100	m	100	m	100	k	100
Algeria	99	99	99	99	100		100
American Samoa							
Andorra	100	m	100	m	100	m	100
Angola	24	30	35	42	d	47	74
Anguilla	95	96	98	100		100	
Antigua and Barbuda	98	92	d	99	100	m	100
Argentina	96	97	99	e	100	100	100
Armenia	99	d	100	d	100	d	100
Aruba	92	e	100	m	93	e	100
Australia	100	m	100	m	100	m	100
Austria	100	m	100	m	100	m	100
Azerbaijan	99	c	99	100	100		100
Bahamas	100	m	100	m	100	m	100
Bahrain	100	100	m	100	m	100	m
Bangladesh	32	d	44	g	55	g	75
Barbados	100	m	100	m	100	m	100
Belarus	100	m	100	m	100	m	100
Belgium	100	m	100	m	100	m	100
Belize	79	e	84	90	e	92	c
Benin	22	26	34	g	30	k	41
Bermuda	100	m	100	m	100	m	100
Bhutan	31	g	60	e	73	c	96
Bolivia (Plurinational State of)	70	h	68	h	88	92	h
Bosnia and Herzegovina	100	m	100	m	100	k	100
Botswana	26	38	52	62	k	72	91

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Brazil	94	97	h	99	k	100	h
British Virgin Islands	97	98	98	e	100	m	100
Brunei Darussalam	100	m	100	m	100	m	100
Bulgaria	100	m	100	m	100	m	100
Burkina Faso	9	11	13	d'	16	19	66
Burundi	2	3	c	5	d'	8	12
Cabo Verde	58	67	d	81	e	86	94
Cambodia	17	d	21	d	31	d	65
Cameroon	41	c	47	53	59	65	94
Canada	100	m	100	m	100	m	100
Cayman Islands	100	m	100	m	100	m	100
Central African Republic	6	c	7	10	c	13	15
Chad	3	5	6	c	8	d'	11
Channel Islands	100	m	100	m	100	m	100
Chile	98	h	98	100	h	100	m
China	97	98	100	k	100	100	100
China, Hong Kong Special Administrative Region	100	m	100	m	100	m	100
China, Macao Special Administrative Region	100	m	100	m	100	m	100
Colombia	95	d	97	d	97	h	98
Comoros	40	51	70		75	87	100
Congo	29	34	d	40	44	50	66
Cook Islands	98	98	99	100	g	100	100
Costa Rica	97	k	99	h	99	h	100
Côte d'Ivoire	49	59	d	58	63	k	70
Croatia	100	m	100	m	100	m	100
Cuba	97	k	97	98	99	100	100
Curaçao	100	100	100	m	100	m	100

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Cyprus	100	m	100	m	100	m	100
Czechia	100	m	100	m	100	m	100
Democratic People's Republic of Korea			29	41	52	43	67
Democratic Republic of the Congo	7	c	6	g	13	16	19
Denmark	100	m	100	m	100	m	100
Djibouti	56		56		58	62	72
Dominica	81		88	94	100	100	100
Dominican Republic	89	h	90	h	98	h	100
Ecuador	94		96	h	97	h	99
Egypt	98	d	99	d	99	k	100
El Salvador	85	h	88	h	92	h	95
Equatorial Guinea	66		66		66	67	91
Eritrea	29		35	40	46	52	76
Estonia	100	m	100	m	100	m	100
Eswatini	20		34	46	c	64	80
Ethiopia	13	d	14	d	25	29	d
Faroe Islands	100	m	100	m	100	m	100
Fiji	76		82	89	95	100	100
Finland	100	m	100	m	100	m	100
France	100	m	100	m	100	m	100
French Polynesia	100	m	100	m	100	m	100
Gabon	74	d	82	g	89	87	92
Gambia	34	c	30	c	47	55	62
Georgia	100		98	c	100	k	100
Germany	100	m	100	m	100	m	100
Ghana	44	e	41	k	64	e	74
Gibraltar	100	m	100	m	100	m	100

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Greece	100	m	100	m	100	m	100
Greenland	100	m	100	m	100	m	100
Grenada	86	88	89	91	94		
Guam	100	m	100	m	100	m	100
Guatemala	73	h	78	84	91	97	97
Guinéa	15	20	d	28	35	45	88
Guinea-Bissau	5	6	g	20	33	56	15
Guyana	75	78	d	83	88	93	91
Haiti	34	a	35	37	41	47	81
Honduras	67	69	h	81	h	90	93
Hungary	100	m	100	m	100	m	100
Iceland	100	m	100	m	100	m	100
India	59	68	76	g	88	d	99
Indonesia	86	g	85	94	g	98	g
Iran (Islamic Republic of)	98	a	99	99	100	k	100
Iraq	97	98	98	99	99	100	100
Ireland	100	m	100	m	100	m	100
Isle of Man	100	m	100	m	100	m	100
Israel	100	m	100	m	100	m	100
Italy	100	m	100	m	100	m	100
Jamaica	84	88	92	g	95	g	100
Japan	100	m	100	m	100	m	100
Jordan	99	99	100	k	100	k	100
Kazakhstan	100	100	k	100	c	100	100
Kenya	15	25	19	d	42	d	71
Kiribati	55	70	e	63	e	91	94
Kuwait	100	m	100	m	100	m	100
Kyrgyzstan	100	99	c	99	i	99	100

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)						URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020	2020		
Lao People's Democratic Republic	42	57	e	70	90	e	100	100
Latvia	100	m	100	m	100	m	100	m
Lebanon	99	99	99	100	100	100	100	100
Lesotho	4	c	10	17	g	32	47	78
Liberia			5	15	28	45	8	35
Libya	100	k	90	82	73	70	100	
Liechtenstein	100	m	100	m	100	m	100	m
Lithuania	100	m	100	m	100	m	100	m
Luxembourg	100	m	100	m	100	m	100	m
Madagascar	13		16	12	g	23	34	11
Malawi	5	d	7	9	d	11	d	15
Malaysia	99	99	99	100	100	100	100	100
Maldives	84	e	91	99	100	100	100	100
Mali	10		18	27	38	d	51	94
Malta	100	m	100	m	100	m	100	m
Marshall Islands	68		76	89	93	99	96	100
Mauritania	19		18	f	34	40	c	47
Mauritius	99	e	99	100	99	100	99	100
Mexico	98	h	99	h	99	d	99	k
Micronesia (Federated States of)	46	e	55	65	e	74	83	97
Monaco	100	m	100	m	100	m	100	m
Mongolia	67	e	86	g	79	c	88	98
Montenegro	100	m	100	c	100	m	100	m
Morocco	70		78	93	97	g	100	100
Mozambique	6		12	19	24	d	31	75
Myanmar	42		47	49	g	61	g	70
Namibia	37	d	40	45	52	g	56	75
								36

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Nauru	99	99	99	99	g	100	m
Nepal	29	46	69	k	83	90	94
Netherlands	100	m	100	m	100	m	100
New Caledonia	100	m	100	m	100	m	100
New Zealand	100	m	100	m	100	m	100
Nicaragua	73	74	h	78	83	89	100
Niger	6	c	7	g	13	17	g
Nigeria	43	47	48	d	53	d	55
Niue	99	99	99	99	99	100	100
North Macedonia	100	m	100	m	100	m	100
Northern Mariana Islands	100	m	100	m	100	m	100
Norway	100	m	100	m	100	m	100
Oman	100	100	100	m	100	m	100
Pakistan	70	71	71	71	75	75	100
Palau	98	99	e	99	99	100	m
Panama	81	e	84	87	e	92	97
Papua New Guinea	3	19	20	g	43	60	d
Paraguay	89	95	h	97	h	99	h
Peru	72	h	77	h	88	h	94
Philippines	75	80	85	89	f	97	98
Poland	100	m	100	m	100	m	100
Portugal	100	m	100	m	100	m	100
Puerto Rico	100	100	m	100	m	100	m
Qatar	100	m	100	m	100	m	100
Republic of Korea	100	100	m	100	m	100	m
Republic of Moldova	100	m	99	d	100	m	100
Romania	100	m	100	m	100	m	100
Russian Federation	100	m	100	m	96	k	100

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)						URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020	2020		
Rwanda	6	a	5	d	10	d	23	d
Saint Kitts and Nevis	95	97	100	100	m	100	m	100
Saint Lucia	89	92	94	e	97	100	100	100
Saint Martin (French Part)	100	100	m	100	m	100	m	100
Saint Vincent and the Grenadines	80	86	93	100	100	100	100	100
Samoa	88	91	96	99	100	100	100	100
San Marino	100	m	100	m	100	m	100	m
Sao Tome and Principe	53	c	56	61	67	77	78	71
Saudi Arabia	100	100	m	100	m	100	m	100
Senegal	38	c	47	d	57	g	61	d
Serbia	100	m	100	c	100	k	100	m
Seychelles	94	96	97	e	100	m	100	m
Sierra Leone	8	11	c	11	c	20	26	55
Singapore	100	m	100	m	100	m	100	m
Sint Maarten (Dutch part)	100	100	m	100	m	100	m	100
Slovakia	100	m	100	m	100	m	100	m
Slovenia	100	m	100	m	100	m	100	m
Solomon Islands	5	19	35	55	d	73	77	72
Somalia	2	15	52	51	50	50	70	32
South Africa	72	81	g	83	g	85	g	89
South Sudan			2	e	5	7	14	6
Spain	100	m	100	m	100	m	100	m
Sri Lanka	70	78	85	g	94	100	100	100
State of Palestine	100	g	100	g	100	k	100	100
Sudan	23	c	30	38	47	55	82	41
Suriname	95	95	91	c	95	98	99	97
Sweden	100	m	100	m	100	m	100	m
Switzerland	100	m	100	m	100	m	100	m

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)					URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015	2020		
Syrian Arab Republic	93	92	93	g	90	89	100
Tajikistan	98	c	99	c	99	k	100
Thailand	82	d	93	100	f	100	c
Timor-Leste	18	33	38	d	67	e	96
Togo	17	c	27	31	c	45	54
Tonga	86	89	93	100	k	100	100
Trinidad and Tobago	91	e	98	100	m	100	m
Tunisia	95	g	99	g	100	j	100
Turkey	100	100	100	i	100	e	100
Turkmenistan	100	d	100	100	i	100	c
Turks and Caicos Islands	96	e	96	100	m	100	99
Tuvalu	95	96	97	98	98	100	100
Uganda	7	9	d	12	g	19	d
Ukraine	100	m	100	c	100	m	100
United Arab Emirates	100	m	100	m	100	m	100
United Kingdom of Great Britain and Northern Ireland	100	m	100	m	100	m	100
United Republic of Tanzania	9	14	15	d	26	40	g
United States of America	100	m	100	m	100	m	100
United States Virgin Islands	100	m	100	m	100	m	100
Uruguay	98	98	99	g	100	h	100
Uzbekistan	100	100	100	100	100	100	100
Vanuatu	22	31	44	k	52	67	96
Venezuela (Bolivarian Republic of)	99	h	99	99	100	g	100
Viet Nam	88	96	d	97	k	100	100
Yemen	49	55	61	67	74	93	62
Zambia	17	e	23	22	e	31	g
Zimbabwe	34	36	39	34	d	53	/
						86	/
						37	

COUNTRY/REGION	TOTAL ELECTRICITY ACCESS RATE (%)				URBAN ELECTRICITY ACCESS RATE (%)	RURAL ELECTRICITY ACCESS RATE (%)
	2000	2005	2010	2015		
World	78	81	83	87	91	97
Northern America and Europe	100	100	100	99	100	100
Latin America and the Caribbean	92	94	96	97	99	100
Central Asia and Southern Asia	60	67	75	86	96	100
Eastern Asia and South-eastern Asia	92	94	96	97	98	99
Western Asia and Northern Africa	88	90	91	93	94	99
Sub-Saharan Africa	26	29	33	39	48	78
Oceania	80	82	82	87	91	99

Note: Unless otherwise noted, data are World Bank estimates based on the statistical model described in chapter 1.

- a. Most surveys report data on the percentage of households with access to electricity rather than on the percentage of the population with access.
- b. Rural data are calculated based on the urban and total population with access and are not based on a statistical model.
- c. Based on Multi-Indicator Cluster Survey (MICS)
- d. Based on Demographic and Health Survey (DHS)
- e. Based on Census
- f. Based on Living Standards Measurement Survey (LSMS)
- g. Based on other National Surveys conducted by national statistical agencies
- h. Based on Socio-Economic Database for Latin America and the Caribbean (SEDLAC)
- i. Based on Europe and Central Asia Poverty Database (ECAPOV)
- j. Based on Middle East and North Africa Poverty Database (MNAPOV)
- k. Based on other official sources
- l. Based on Multi-Tier Framework (MTF)
- m. Based on assumption: where survey data were not collected, countries considered "developed" by the UN or "high income" by the World Bank are assumed to reach universal access.

SDG 7.1.2 - ACCESS TO CLEAN FUELS AND TECHNOLOGIES FOR COOKING

Source: World Health Organization

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)			
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2015	2020
Afghanistan	6	20	27	33	1	6	11	16	29	70	79	83		
Albania	38	66	76	81	18	46	58	65	67	86	91	93		
Algeria	97	99	100	100	93	98	98	99	100	100	100	100	100	100
American Samoa														
Andorra	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Angola	41	44	47	50	8	7	8	8	80	77	78	78		
Anguilla														
Antigua and Barbuda	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Argentina	95	99	100	100	71	91	96	97	98	100	100	100	100	100
Armenia	80	96	98	98	54	92	95	96	94	99	99	100	100	100
Aruba														
Australia	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Austria	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Azerbaijan	70	93	96	97	44	86	92	94	96	99	99	99	99	99
Bahamas	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Bahrain	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Bangladesh	8	13	18	25	1	2	5	8	35	42	51	58		
Barbados	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Belarus	95	99	99	100	87	96	98	99	99	100	100	100	100	100
Belgium	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Belize	80	84	83	82	67	73	73	73	94	96	96	95		
Benin	1	4	4	4	0	1	1	1	1	8	8	7		
Bermuda														
Bhutan	28	64	75	80	10	48	61	68	87	96	97	97		
Bolivia (Plurinational State of)	63	76	83	86	18	39	52	59	92	97	98	99		
Bosnia and Herzegovina	52	45	44	45	32	21	18	17	80	70	67	67		

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2020
Botswana	44	58	62	65	20	29	27	25	69	82	84	86			
Brazil	89	94	95	96	55	70	76	79	97	98	99	99			
British Virgin Islands															
Brunei Darussalam	100	100	100	100	100	100	100	100	100	100	100	100			
Bulgaria															
Burkina Faso	3	6	8	11	1	1	1	1	12	22	28	35			
Burundi	0	0	0	0	0	0	0	0	1	0	0	0			
Cabo Verde	4	12	20	37	1	4	9	25	15	45	60	70			
Cambodia	10	19	22	22	1	2	2	2	21	37	40	38			
Cameroon	100	100	100	100	100	100	100	100	100	100	100	100			
Canada	63	70	76	81	31	33	40	50	90	91	93	94			
Cayman Islands															
Central African Republic	1	0	1	1	0	0	0	0	1	1	1	2			
Chad	3	3	4	7	2	0	0	0	5	10	17	29			
Channel Islands															
Chile	100	100	100	100	100	100	100	100	100	100	100	100			
China	42	56	68	79	24	34	49	65	68	77	84	89			
China, Hong Kong Special Administrative Region	78	86	90	93	33	43	53	66	93	97	98	99			
China, Macao Special Administrative Region	1	3	6	8	0	1	2	3	1	7	13	17			
Colombia	1	3	4	4	0	0	0	0	4	10	10	8			
Comoros	9	17	25	35	1	2	3	4	15	26	37	49			
Congo	81	81	78	76	47	43	39	35	97	98	98	97			
Cook Islands	89	92	94	96	78	80	84	88	97	98	98	98			
Costa Rica	19	18	23	32	3	2	1	1	37	36	47	62			
Côte d'Ivoire	100	100	100	100	100	100	100	100	100	100	100	100			
Croatia	71	90	93	94	35	80	85	87	85	95	96	97			
Cuba															

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)				RURAL CLEAN COOKING ACCESS RATE (%)				URBAN CLEAN COOKING ACCESS RATE (%)			
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020
Curaçao	100	100	100	100	100	100	100	100	100	100	100	100
Cyprus	100	100	100	100	100	100	100	100	100	100	100	100
Czechia	100	100	100	100	100	100	100	100	100	100	100	100
Democratic People's Republic of Korea	4	6	8	10	1	1	0	0	4	8	10	12
Democratic Republic of the Congo	81	88	89	89	64	75	80	82	94	96	96	96
Denmark	84	88	89	92	67	69	71	76	95	95	95	96
Djibouti	88	94	94	94	70	83	85	85	99	99	99	99
Dominica	84	99	100	100	74	99	100	100	96	100	100	100
Dominican Republic	58	77	86	92	25	48	65	81	82	94	96	97
Ecuador	24	39	48	55	10	23	32	41	60	79	86	89
Egypt	19	23	24	24	4	5	5	4	30	34	34	33
El Salvador	4	8	9	9	0	1	1	1	11	20	21	20
Equatorial Guinea	100	100	100	100	100	100	100	100	100	100	100	100
Eritrea	1	2	4	8	0	0	0	0	3	10	18	29
Estonia												
Eswatini	28	32	40	51	10	13	18	28	47	50	58	70
Ethiopia	100	100	100	100	100	100	100	100	100	100	100	100
Faroe Islands	100	100	100	100	100	100	100	100	100	100	100	100
Fiji												
Finland	65	80	86	88	16	30	39	46	79	90	93	94
France	4	3	2	2	1	0	0	6	4	3	2	
French Polynesia	48	66	79	89	10	35	59	79	86	93	96	97
Gabon	100	100	100	100	100	100	100	100	100	100	100	100
Gambia	6	16	21	22	1	4	7	9	14	30	36	34
Georgia												
Germany	100	100	100	100	100	100	100	100	100	100	100	100
Ghana												
Gibraltar	92	93	91	89	92	90	88	94	95	95	94	

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)					
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020
Greece																
Greenland	41	38	43	50	17	11	12	14	68	62	67	75				
Grenada	1	1	1	2	0	0	0	1	1	1	2	4				
Guam	1	1	1	1	0	0	0	4	3	2	2	2				
Guatemala	36	61	73	81	28	56	70	80	55	76	81	84				
Guinea	3	4	4	4	1	1	1	1	6	7	7	7				
Guinea-Bissau	31	42	46	48	9	15	19	23	56	70	72	73				
Guyana																
Haiti	100	100	100	100	100	100	100	100	100	100	100	100				
Honduras	100	100	100	100	100	100	100	100	100	100	100	100				
Hungary	22	35	48	68	7	14	27	54	50	71	82	91				
Iceland	6	41	67	84	2	24	50	75	13	62	85	93				
India	93	96	97	96	87	92	92	98	99	99	99	99				
Indonesia	74	95	98	99	58	90	96	98	82	98	99	99				
Iran (Islamic Republic of)	100	100	100	100	100	100	100	100	100	100	100	100				
Iraq																
Ireland	100	100	100	100	100	100	100	100	100	100	100	100				
Isle of Man	100	100	100	100	100	100	100	100	100	100	100	100				
Israel	76	86	85	83	54	75	78	78	98	96	93	90				
Italy	100	100	100	100	100	100	100	100	100	100	100	100				
Jamaica	100	100	100	100	99	100	99	100	99	100	100	100				
Japan	84	92	93	93	69	84	86	87	97	98	98	98				
Jordan	2	7	12	20	1	2	3	5	5	20	30	44				
Kazakhstan	2	3	6	10	0	0	0	0	2	6	11	17				
Kenya	2	6	8	12	1	1	1	1	3	9	13	18				
Kiribati	100	100	100	100	100	100	100	100	100	100	100	100				
Kosovo																
Kuwait	100	100	100	100	100	100	100	100	100	100	100	100				
Kyrgyzstan	53	72	76	77	34	59	66	66	86	93	94	94				

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2020
Lao People's Democratic Republic	1	4	6	8	1	1	1	2	3	10	15	19			
Latvia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lebanon															
Lesotho	16	31	36	40	8	15	18	20	46	73	78	79			
Liberia	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Libya															
Liechtenstein															
Lithuania	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Luxembourg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Madagascar															
Malawi	1	1	1	1	1	1	1	0	0	3	2	2	2	2	2
Malaysia	2	2	2	1	0	1	0	0	0	12	12	9	4		
Maldives	98	98	97	96	95	95	93	92	99	99	99	98			
Mali	53	93	98	99	39	90	97	99	96	99	100	100	100	100	100
Malta	1	1	1	1	0	0	0	0	2	2	2	2	2	2	2
Marshall Islands	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Mauritania	16	53	62	64	2	2	1	1	23	70	82	85			
Mauritius	30	42	43	43	13	18	18	18	53	69	68	64			
Mexico	94	97	97	97	91	96	96	96	97	99	99	98			
Micronesia (Federated States of)	82	85	85	47	52	53	59	98	95	93	91				
Monaco	11	12	12	13	3	4	4	3	29	32	34	34			
Mongolia	64	91	95	96	40	86	92	95	96	98	99	99			
Montenegro	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Morocco	23	35	44	52	2	7	11	15	41	50	61	69			
Mozambique	67	63	61	62	46	41	41	44	83	75	72	72			
Myanmar	91	96	98	98	80	92	95	96	100	100	100	100	99		
Namibia	2	3	4	5	1	0	0	0	5	9	11	14			
Nauru	3	10	20	31	1	3	6	11	6	26	52	76			

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2020
Nepal	34	41	44	47	11	11	12	13	77	76	75	72			
Netherlands	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
New Caledonia	6	22	29	35	3	10	15	20	25	64	66	63			
New Zealand	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nicaragua															
Niger	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Nigeria	34	45	50	56	6	8	8	9	54	70	78	85			
Niue	1	1	2	2	0	0	0	0	4	4	6	9	12		
North Macedonia	1	2	5	15	0	1	2	4	2	4	11	30			
Northern Mariana Islands	75	93	97	98	69	92	96	98	89	96	98	98			
Norway	58	68	73	78	40	43	49	59	69	86	90	91			
Oman															
Pakistan	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Palau	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Panama	24	36	42	49	5	11	17	26	66	82	86	86			
Papua New Guinea	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Paraguay	80	86	88	88	54	67	69	69	98	98	98	98			
Peru	6	8	9	9	1	3	4	4	37	39	38	37			
Philippines	49	57	65	69	17	28	36	41	73	77	84	86			
Poland	43	66	76	85	5	13	24	42	61	84	91	96			
Portugal	38	41	42	48	20	21	23	28	56	61	64	69			
Puerto Rico	100	100	100	100	100	100	100	100	100	100	100	100			
Qatar	100	100	100	100	100	100	100	100	100	100	100	100			
Korea, Republic of															
Moldova, Republic of	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Romania	72	83	86	88	48	69	75	79	95	96	96	96	96	96	96
Russian Federation	100	97	92	86	100	97	93	89	100	98	94	90			
Rwanda	0	0	1	2	0	0	0	0	1	1	3	10			
Saint Kitts and Nevis	19	27	31	36	9	18	23	29	46	56	61	65			

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2020
Saint Lucia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Saint Martin (French Part)	0	1	2	3	0	0	0	0	1	0	2	3	4	4	4
Saint Vincent and the Grenadines	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Samoa	35	34	27	24	7	7	5	4	68	64	52	46	46	46	46
San Marino	58	67	73	80	31	44	52	64	82	86	89	92	92	92	92
Sao Tome and Principe	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Saudi Arabia	0	0	0	1	0	0	0	0	0	0	0	1	1	1	1
Senegal	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Serbia															
Seychelles	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sierra Leone	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Singapore	9	8	8	9	4	2	2	1	38	37	37	37	37	37	37
Sint Maarten (Dutch part)	0	1	2	3	0	0	0	0	0	0	2	4	5	5	5
Slovakia	56	77	83	87	29	56	64	66	77	89	93	95	95	95	95
Slovenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Solomon Islands	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Somalia	17	22	26	32	10	15	18	23	52	57	64	70	70	70	70
South Africa	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
South Sudan	86	95	95	94	93	96	96	94	76	94	96	97	97	97	97
Spain	96	96	95	94	97	97	96	96	96	96	96	96	96	96	96
Sri Lanka	8	32	45	55	6	23	36	47	18	55	64	68	68	68	68
State of Palestine	78	87	91	94	60	76	84	90	89	94	96	97	97	97	97
Sudan	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Suriname	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Sweden	99	99	98	97	98	98	98	97	100	100	99	99	99	99	99
Switzerland	36	70	77	82	21	60	70	77	79	95	97	97	97	97	97
Syrian Arab Republic	1	1	3	4	0	0	1	1	2	4	8	11	11	11	11
Tajikistan	57	74	79	84	44	63	70	77	86	88	89	90	90	90	90

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2020
Thailand	2	5	8	14	0	1	3	4	4	4	12	21	31	31	31
Timor-Leste	0	3	7	10	0	0	1	1	1	1	8	15	21	21	21
Togo	36	60	72	84	23	51	66	81	80	89	92	94	94	94	94
Tonga	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Trinidad and Tobago	94	99	100	100	92	99	99	100	96	100	100	100	100	100	100
Tunisia	90	94	95	77	83	84	84	99	99	99	99	99	99	99	99
Turkey	99	100	100	99	100	100	100	100	100	100	100	100	100	100	100
Turkmenistan															
Turks and Caicos Islands	16	49	64	71	12	28	34	36	19	67	86	93	93	93	93
Tuvalu	1	1	1	0	0	0	0	0	4	3	2	1	1	1	1
Uganda	92	94	95	95	85	87	88	87	95	98	99	99	99	99	99
Ukraine	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
United Arab Emirates	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
United Kingdom of Great Britain and Northern Ireland	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Tanzania, United Republic of	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
United States of America	84	86	85	84	72	74	73	73	98	99	99	98	98	98	98
United States Virgin Islands	16	12	10	8	4	3	2	2	58	39	28	21	21	21	21
Uruguay	97	97	97	97	77	80	85	88	100	99	99	99	99	99	99
Uzbekistan	14	49	60	65	5	36	48	56	41	78	82	82	82	82	82
Vanuatu															
Venezuela (Bolivarian Republic of)															
Viet Nam	56	60	61	62	42	43	43	42	93	94	94	93	93	93	93
Yemen	14	16	14	10	1	2	2	2	38	38	30	20	20	20	20
Zambia	34	30	30	30	6	5	6	7	88	81	80	79	79	79	79
Zimbabwe															

COUNTRY	TOTAL CLEAN COOKING ACCESS RATE (%)					RURAL CLEAN COOKING ACCESS RATE (%)					URBAN CLEAN COOKING ACCESS RATE (%)				
	2000	2010	2015	2020	2000	2010	2015	2020	2000	2010	2015	2020	2010	2015	2020
Australia and New Zealand	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Central Asia and Southern Asia	26	37	48	63	9	16	26	46	57	73	82	88			
Eastern Asia and South-eastern Asia	42	56	68	77	23	33	47	61	65	77	84	89			
Latin America and the Caribbean	80	85	87	88	43	52	56	61	93	95	95	95			
Northern America and Europe	98	98	98	97	94	95	95	99	99	99	99	98			
Oceania excluding Australia and New Zealand	10	12	13	15	3	4	6	7	41	44	46	47			
Sub-Saharan Africa	9	12	13	17	3	4	4	5	24	26	29	34			
Western Asia and Northern Africa	80	89	91	92	66	79	82	83	92	97	97	97			
World	49	57	63	69	25	30	38	48	76	81	84	86			

SDG 7.2 - RENEWABLE ENERGY

Data provided by the IEA and UNSD

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UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)	SOURCE																
	2000					2010					2015								2019													
	RENEWABLE ENERGY		SOLID BIOFUELS			LIQUID BIOFUELS		BIOGASES			HYDRO		TIDE			WIND		SOLAR			GEOTHERMAL		MUNICIPAL WASTE (RENEW)			ELECTRICITY CONSUMPTION (3)			HEAT RAISING		TRANSPORT (3)	
Afghanistan	45.0	15.2	17.5	18.5	8	0	0	10.4	0	0	0.2	0	0	0	18.4	13.9	0	174.6	a													
Albania	41.4	37.0	38.5	40.2	7.6	5.9	0	25.9	0	0	0.8	0	0	0	22.2	7.1	5	85.6	b													
Algeria	0.4	0.3	0.1	0.2	0	0	0	0	0	0	0.1	0	0	0	2.3	0.4	0.1	1658.3	b													
American Samoa	0.0	0.0	0.2	0.5	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	a													
Andorra	14.5	18.7	19.3	18.4	0.4	0	0	15.8	0	0	0.3	0	0	2	1.6	0	0	8.8	a													
Angola	73.4	52.5	47.8	54.7	46.9	0	0	7.7	0	0	0	0	0	0	33.8	204.9	0	436.4	b													
Anguilla	0.2	0.1	0.3	0.5	0.1	0	0	0	0	0	0.4	0	0	0	0	0	0	1.6	a													
Antigua and Barbuda	0.0	0.0	0.5	0.9	0	0	0	0	0	0	0.9	0	0	0	0	0	0	4.1	a													
Argentina	9.8	8.8	9.4	10.7	2.9	2.9	0	4	0	0	0.7	0.1	0	0	0	113.1	59.4	65.4	2216	b												
Armenia	7.2	9.4	10.7	10.3	3.4	0	0	6.4	0	0	0.5	0	0	0	6.5	3.8	0.1	101	b													
Aruba	0.2	5.5	6.7	7.5	0.2	0	0	0	0	72	0	0	0	0	0.5	0	0	6.9	a													
Australia	8.4	8.2	9.3	10.1	4.9	0.2	0.2	1.4	0	1.6	1.9	0	0	0	146.9	170	9.8	3225.7	b													
Austria	26.4	31.2	34.8	33.8	15.7	1.9	0.3	12	0	22	1.2	0.1	0.3	166.4	171.7	291	1087.7	b														
Azerbaijan	2.1	4.4	2.3	1.6	0.4	0	0	1	0	0.1	0	0	0.1	4.6	1.8	0.1	338.1	b														
Bahamas	0.0	1.7	1.5	1.1	1.1	0	0	0	0	0	0	0	0	0	0.3	0	0	24.9	a													
Bahrain	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	213.9	b													
Bangladesh	59.1	40.3	31.9	24.8	24.5	0	0	0.2	0	0	0.1	0	0	0	3.8	325.7	0	1371.3	b													
Barbados	14.3	9.1	3.2	4.3	2.9	0	0	0	0	0	1.4	0	0	0	0.2	0.3	0	12	a													
Belarus	5.6	7.3	6.8	7.8	7.4	0.1	0	0.1	0	0.1	0	0	0	0	2.7	51.1	0.2	688.5	b													
Belgium	1.4	6.2	9.4	10.2	4.5	1.5	0.5	0.1	0	2.2	1.1	0	0.3	60.7	58.3	21.7	1376.4	b														
Belize	34.6	32.9	30.3	29.1	25.1	0	0	3.9	0	0	0.1	0	0	0	15	2.6	0	139	a													
Benin	70.3	47.2	49.9	46.5	46.4	0	0	0	0	0	0	0	0	0.1	85.8	0	184.8	b														
Bermuda	0.5	0.4	0.6	0.8	0.1	0.2	0	0	0	0	0.1	0	0	0.4	0	0	0	4.9	a													

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)			
	2000					2010					2015					2019		
	SOLAR	GEOTHERMAL	MUNICIPAL WASTE (RENEWABLE)	ELECTRICITY CONSUMPTION (2)	HEAT RISING	TRANSPORT (3)	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	SOURCE	
Bhutan	91.4	90.8	86.7	82.3	70.3	0	0	12	0	0	0	0	0	8.2	48.1	0	68.5	
Bolivia (Plurinational State of)	29.7	15.3	8.0	8.7	4.7	0.3	0	3.4	0	0.1	0.2	0	0	10.9	12.3	0.8	276.3	
Bonaire, Sint Eustatius and Saba	0.0	0.0	13.5	12.4	0.4	0	0	0	9.5	2.5	0	0	0	0.1	0	0	0.9	
Bosnia and Herzegovina	19.4	19.6	25.3	37.0	28.7	0	0	7.9	0	0.3	0	0	0	14.4	50.3	0.1	175.3	
Botswana	38.5	29.4	25.6	25.5	0	0	0	0	0	0.1	0	0	0	0	19	0	74.2	
Brazil	42.7	46.8	43.6	47.6	21.5	10.3	0.1	13.1	0	1.8	0.7	0	0	1512.8	1842	900.6	8944.9	
British Virgin Islands	1.0	0.7	1.0	1.2	1	0	0	0	0	0.2	0.1	0	0	0	0	0	1.4	
Brunei Darussalam	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	39.9	
Bulgaria	8.0	14.3	17.9	19.3	12.6	1.9	0.3	1.8	0	0.8	1.2	0.4	0.5	18.3	51.6	7.7	401.6	
Burkina Faso	85.4	81.5	72.7	64.8	64.1	0	0	0.5	0	0	0.3	0	0	0	13	112.7	0	175.8
Burundi	93.2	92.6	91.1	84.8	83.9	0	0	0.9	0	0	0	0	0	0.5	48.4	0	57.8	
Cabo Verde	27.9	21.2	26.3	22.2	18.8	0	0	0	0	3	0.4	0	0	0.2	1.4	0	7.3	
Cambodia	81.6	64.8	60.6	53.4	47.2	0	0	6	0	0	0.1	0	0	0	17.8	133.6	0	283.9
Cameroon	84.6	78.8	78.1	79.4	75	0	0	4.4	0	0	0	0	0	14.6	244.5	0	326.2	
Canada	22.0	21.9	22.7	22.1	5	1.2	0.1	14.4	0	1.2	0.2	0	0	1244.3	3666.6	1106	7785.4	
Cayman Islands	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	5.9	
Central African Republic	88.9	93.8	92.9	91.3	89.9	0	0	1.4	0	0	0	0	0	0.5	33	0	36.7	
Chad	88.7	79.0	77.3	77.8	0	0	0	0	0	0	0	0	0	0	62.2	0	79.9	
Chile	31.4	27.0	25.1	25.3	15.6	0	0.1	6.2	0	1.3	2	0.1	0	122.1	166.2	22	1149.8	
China	29.6	12.3	12.2	14.4	4.3	0.2	0.4	5	0	1.6	2.1	1	0	6177.12	5129	284.5	80175.4	
China, Hong Kong Special Administrative Region	0.0	0.1	0.2	0.2	0	0.1	0	0	0	0	0	0.1	0.1	0.3	337.2	0	b	
China, Macao Special Administrative Region	0.2	5.5	5.4	8.4	0.1	0	0	0	0	0	0	0	0	2.6	0	0	31.3	

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ) SOURCE			
	2000					2010					2015							
	SOLID BIOFUELS	LIQUID BIOFUELS	BIOGASES	HYDRO	TIDE	WIND	SOLAR	MUNICIPAL WASTE (RENEWABLE)	ELECTRICITY CONSUMPTION (1)	HEAT RISING (2)	TRANSPORT (3)	2019	2019	2019	2019			
Colombia	28.0	29.7	31.6	30.7	14.8	2.3	0	13.6	0	0	0	170.2	175	27.8	1214.2	b		
Comoros	69.9	66.4	64.2	53.4	53.4	0	0	0	0	0	0	0	0	3.8	0	7.1	a	
Congo	64.9	54.8	64.2	68.7	67	0	0	1.6	0	0	0	0	1.3	54.6	0	81.4	b	
Cook Islands	0.0	0.0	1.4	3.7	0	0	0	0	0	3.7	0	0	0	0	0	1	a	
Costa Rica	32.9	40.4	35.3	35.8	13.6	0	0	15.5	0	3.6	0.1	3	0	36.3	21.4	0	161.3	b
Côte d'Ivoire	63.7	75.4	64.5	62.5	59.7	0	0	2.8	0	0	0	0	0	8.8	186.1	0	312.2	b
Croatia	26.8	29.8	33.1	31.6	17.3	0.9	0.8	9.5	0	2.4	0.4	0.3	0	37.7	47.7	3.3	280.7	b
Cuba	34.4	15.6	21.1	21.5	17.8	3.4	0	0.1	0	0	0.2	0	0	2.3	53.7	0	260.4	b
Curaçao	0.1	0.5	1.6	2.7	0	0	0	0	0	2.4	0.2	0	0	0.7	0	0	24.8	b
Cyprus	3.1	6.5	10.5	12.0	2.2	0.7	0	0	0	1.2	5.7	0.1	1.4	1.7	5.8	0.4	66	b
Czechia	5.9	11.0	14.8	15.8	11.6	1.4	1.3	0.5	0	0.2	0.6	0	0.2	23.9	120.5	15	1005.3	b
Democratic People's Republic of Korea	8.7	13.6	23.3	11.3	6.3	0	0	5	0	0	0	0	0	28.7	37.3	0.9	591.9	b
Democratic Republic of the Congo	97.9	96.8	95.8	96.2	92.6	0	0	3.6	0	0	0	0	0	29.8	754.7	0	815.2	b
Denmark	10.7	21.2	32.9	37.5	19.7	1.6	0.9	0	0	11	11	0	3.2	86.5	112.4	10.2	557.4	b
Djibouti	31.4	32.5	28.2	27.9	27.9	0	0	0	0	0	0	0	0	2.2	0	7.7	a	
Dominica	11.1	10.3	8.8	8.0	3.8	0	0	4.1	0	0.1	0	0	0	0.1	0	0	1.6	a
Dominican Republic	19.1	16.9	14.9	14.0	11.8	0	0	1.1	0	0.6	0.4	0	0	6.4	32.9	0	281.2	b
Ecuador	19.4	11.8	13.1	17.7	3.8	0.2	0	13.6	0	0	0	0	0	72.6	18.9	1	521.5	b
Egypt	8.3	5.6	5.4	5.3	2.9	0	0	1.7	0	0.5	0.2	0	0	52.8	66.3	0.2	225.1	b
El Salvador	33.5	32.6	21.0	19.4	8.2	0	0.1	4.9	0	0	1.6	4.7	0	16.2	6.7	0	118	b
Equatorial Guinea	45.8	5.7	4.6	6.6	5.7	0	0	0.9	0	0	0	0	0	0.6	3.8	0	67.1	a
Eritrea	76.6	81.1	77.6	73.7	73.4	0	0	0	0	0.3	0	0	0.1	17.4	0	0	23.7	b
Estonia	19.8	25.3	28.2	31.3	26.9	1	0.5	0.1	0	2	0.2	0	0.7	7.4	28.3	1.4	188.6	b
Eswatini	59.4	72.4	71.7	65.9	60.7	0	0	5.2	0	0	0	0	0	4.7	23.2	0	42.4	a

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)					
	2000					2010					2015		2019		2019		2019			
	RENEWABLE ENERGY		BIOMASS			LIQUEFIED BIOFUELS		BIODIESEL			SOLID BIOFUELS		HYDRO		TIDE		WIND		SOLAR	
Ethiopia	95.6	94.1	91.6	88.9	86.7	0	0	2.2	0	0.1	0	0	0	39.6	1521.9	0.2	1756.3	b		
Falkland Islands (Malvinas)	15	4.6	4.7	4.6	1.1	0	0	0	0	3.5	0	0	0	0	0	0	0	0.5	a	
Faroe Islands	2.8	3.4	7.5	5.4	0	0	0	3.6	0	1.8	0	0	0	0.5	0	0	0	9.5	a	
Fiji	50.1	26.5	32.7	26.5	18.4	0	0	7.9	0	0	0.2	0	0	1.9	4.1	0	0	226	a	
Finland	31.7	33.4	43.2	45.8	34.4	18	0.6	5.3	0	2.6	0.1	0	11	1351	3085	19.4	1011.6	b		
France	9.3	12.0	13.3	15.5	7	2.5	0.3	2.7	0	1.7	0.7	0.1	0.4	303.4	444.3	140.8	5721.1	b		
French Guiana	23.8	29.4	a	
French Polynesia	9.9	7.5	7.8	7.7	0.3	0	0	5.2	0	0	2.1	0	0	0.7	0.1	0	0	10.3	a	
Gabon	72.8	85.9	81.9	89.9	87.9	0	0	2	0	0	0	0	0	3.5	153.4	0	174.6	b		
Gambia	62.9	56.6	48.9	49.2	0	0	0	0	0	0.1	0	0	0	0	5.4	0	11	a		
Georgia	47.3	39.1	28.1	25.2	5.9	0	0	18.7	0	0.2	0.1	0.4	0	31.9	11.1	11.2	174.9	b		
Germany	3.7	11.6	14.6	17.2	5.6	1.4	2	0.7	0	4.5	2	0.1	0.9	706	601	129	3364.8	b		
Ghana	71.6	51.9	44.0	41.8	35.6	0	0	61	0	0	0	0	0	21.2	122.7	0	344.4	b		
Gibraltar	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	8.6	b		
Greece	7.8	11.4	17.5	18.5	5.6	1.3	0.5	2.4	0	4.3	4.5	0.1	0	59.6	49.1	8	630.5	b		
Greenland	8.8	9.7	12.7	12.6	0	0	0	126	0	0	0	0	0.9	0	0	0	7.1	a		
Grenada	10.5	10.5	11.1	10.4	10.1	0	0	0	0	0.3	0	0	0	0.4	0	0	3.5	a		
Guadeloupe	2.6	3.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Guam	0.0	0.0	1.3	3.0	0	0	0	0	0	3	0	0	0.2	0	0	0	5.6	a		
Guatemala	62.7	67.2	63.4	62.9	59.9	0	0	25	0	0.2	0.1	0.2	0	226	292.2	0	500.3	b		
Guernsey	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	1.3	a		
Guinea	85.5	75.7	76.2	65.4	63.1	0	0	2.3	0	0	0	0	0	3.8	103.1	0	163.4	a		
Guinea-Bissau	91.2	87.8	87.2	86.2	86.2	0	0	0	0	0	0	0	0	0	24.5	0	28.4	a		
Guyana	29.8	30.3	24.9	11.4	11.2	0	0	0	0	0.1	0	0.1	0	3.3	0	0	29.6	a		
Haiti	80.8	79.0	76.1	76.4	76	0.2	0	0.2	0	0	0	0	0.3	0	110.1	0	144.4	b		
Honduras	55.2	52.2	52.7	46.0	39.3	0	0	3.4	0	1.2	1.6	0.4	0	13.7	666.6	0	174.9	b		

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)	SOURCE													
	2000					2010					2015			2019		2019		2019		2019									
	RENEWABLE ENERGY		SOLID BIOFUELS			LIQUID BIOFUELS		BIOGASES			HYDRO		TIDE		WIND		SOLAR		GEOTHERMAL		MUNICIPAL WASTE (RENEW)			ELECTRICITY CONSUMPTION (3)			HEAT RISING (2)		TRANSPORT (3)
Hungary	5.2	13.5	15.6	13.6	9.9	11	0.3	0.1	0	0.4	0.9	0.7	0.2	19.3	74.2	9.1	751.8	b											
Iceland	60.7	76.0	77.3	81.1	0	0.7	0	36.9	0	0	0	43.4	0	65.5	33	1	122.7	b											
India	46.9	36.2	33.4	32.9	28.8	0.2	0.2	21	0	0.8	0.8	0	0	929.9	6986.1	58.4	24218.2	b											
Indonesia	45.6	34.8	26.7	19.1	14.2	3.1	0	11	0	0	0	0.7	0	155.9	890.7	169.9	6372.7	b											
Iran (Islamic Republic of)	0.4	0.9	0.9	1.0	0.3	0	0	0.6	0	0	0	0	0	49.1	21	0.1	7132.5	b											
Iraq	0.4	1.7	0.8	0.4	0.1	0	0	0.3	0	0	0	0	0	3.1	0.9	0	945.3	b											
Ireland	2.0	5.3	9.2	12.3	1.9	1.7	0.2	0.6	0	7.2	0.1	0	0.6	39.2	10.4	8	4666.6	b											
Isle of Man	0.0	1.9	2.2	1.9	0	0	0	0.3	0	0	0	0	0	1.6	0	0	0	a											
Israel	6.0	8.6	3.7	4.5	0.1	0	c	c	0	0.1	4.2	0	0	10.4	16	0	589.6	b											
Italy	5.1	12.8	16.6	17.3	6.8	1.6	0.9	3.6	0	1.6	2	0.6	0.3	400.4	330.3	69.9	4635.6	b											
Jamaica	9.4	9.0	12.1	9.1	5.9	1.8	0	0.5	0	0.8	0.1	0	0	1.3	5.2	1.6	88.6	b											
Japan	3.7	4.7	6.2	7.7	2.4	0.2	0	2.5	0	0.2	2.2	0.1	0.1	588.3	175.4	28.5	10299.2	b											
Jersey	0.0	4.8	15.9	17.7	0	0	0	0	0	0	0	0	17.7	11	0	0	6.1	a											
Jordan	2.1	3.0	3.2	8.2	1.1	0	0	0	0	1.1	6	0	0	9.8	12.1	0	268	b											
Kazakhstan	2.5	1.4	1.7	1.7	0.1	0	0	1.4	0	0.1	0.1	0	0	26.6	1.5	1.4	1731.4	b											
Kenya	78.9	76.5	72.0	68.1	64.4	0	0	1.3	0	0.5	0	1.9	0	29.2	500.4	0	777.9	b											
Kiribati	55.8	48.4	45.7	41.0	39.9	0	0	0	0	0	1.1	0	0	0	0.5	0	1.3	a											
Kosovo	28.3	20.8	20.4	26.1	24.7	0	0	0.9	0	0.4	0.1	0	0	0.8	15.7	0	63.4	a											
Kuwait	0.0	0.0	0.0	0.1	0	0	0	0	0	0	0	0	0	0.4	0	0	652.1	b											
Kyrgyzstan	35.2	25.6	23.3	27.9	0.1	0	0	27.8	0	0	0	0	0	40.7	0.1	0.1	146.6	b											
Lao People's Democratic Republic	81.5	64.9	53.3	48.4	37.7	0	0	10.7	0	0	0	0	0	14.5	50.7	0	134.5	a											
Latvia	35.8	33.1	38.1	41.5	33.4	1	1.4	4.8	0	0.3	0	0	0.6	11.7	54.9	1.8	164.6	b											
Lebanon	4.9	5.7	4.2	5.5	2.9	0	0.1	1.4	0	0.1	1.1	0	0	36	8.4	0	219	b											
Lesotho	56.7	53.0	44.9	39.5	33	0	0	6.5	0	0	0	0	0	2.8	14.5	0	44	a											
Liberia	90.9	88.6	83.9	87.2	86.8	0	0	0.4	0	0	0	0	0	0.4	78.3	0	90.2	a											

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)		
	RENEWABLE ENERGY					NON-RENEWABLE ENERGY					TRANSPORT (3)		HEAT RISING		SOURCE		
	2000	2010	2015	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	2019	
Libya	2.0	2.4	3.1	2.8	2.8	0	0	0	0	0	0	0	0	10.9	0	391.8	
Liechtenstein	53.9	52.3	55.5	56.1	6.8	0	0.8	35.1	0	0	13.4	0	0	1.4	0.3	0	3.1
Lithuania	172	215	29.0	33.5	21.2	1.4	1	1.7	0	7.4	0.5	0	0.4	27.6	45.2	3.4	227
Luxembourg	6.8	3.7	9.1	16.5	4.2	3.4	1.1	1.5	0	3.8	1.8	0	0.6	16.8	3.5	5.8	159
Madagascar	826	86.7	80.6	82.8	81.6	0	0	11	0	0	0	0	0	3.1	24.5	0	262.9
Malawi	826	81.2	80.9	73.0	65.2	0	0	7.6	0	0	0.2	0	0	5.5	45.2	0	69.5
Malaysia	4.4	2.0	3.4	5.1	0.1	0.7	0.1	4	0	0	0.1	0	0	94	0	15.5	214.4
Maldives	2.3	1.4	1.1	0.7	0	0	0	0	0	0.3	0	0	0.1	0.2	0	0	21.2
Mali	83.5	79.2	79.9	76.6	74.5	0	0	2.2	0	0	0	0	0	3.4	109.8	0	147.6
Malta	0.0	1.2	6.0	7.7	0.3	2.1	0.3	0	0	0	5	0	0	0.9	0.3	0.5	22.5
Marshall Islands	19.6	13.3	11.3	11.7	11.3	0	0	0	0	0.4	0	0	0	0	0.2	0	1.7
Martinique	1.7	2.5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mauritania	44.4	34.0	28.2	24.7	23.5	0	0	0	0	0.5	0.7	0	0	0.7	14.1	0	60
Mauritius	20.4	12.8	11.5	8.9	6.5	0	0.2	0.9	0	0.1	1.2	0	0	2.3	0.9	0	36.2
Mayotte	16.2	10.0	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mexico	122	9.4	9.2	10.3	6.7	0	0	1.5	0	1.1	0.7	0.3	0	16.08	321.7	0.6	4670.1
Micronesia (Federated States of)	1.3	2.0	1.4	1.8	1.1	0	0	0	0	0.2	0.5	0	0	0	0	0	1.4
Mongolia	5.7	4.5	3.6	3.3	2.1	0	0	0.2	0	0.9	0.2	0	0	2.3	3.8	0	184.5
Montenegro	..	49.1	43.0	38.7	19.3	0	0	16.5	0	3	0	0	0	6.1	6.1	0	31.8
Montserrat	0.0	0.0	0.4	0	0	0	0	0	0	0.4	0	0	0	0	0	0.2	..
Morocco	15.3	13.9	11.3	10.7	7.4	0	0	0.5	0	2	0.7	0	0	21.8	50.5	0.3	679
Mozambique	93.6	84.9	80.8	78.1	67.4	0	0	10.6	0	0	0	0	0	36.7	230.5	0	342.2
Myanmar	80.2	84.9	70.4	57.9	54.1	0	0	3.7	0	0	0	0	0	30.8	450.1	0	831.3
Namibia	34.7	31.0	29.0	30.7	12.2	0	0	17.5	0	0.1	1	0	0	13.8	9.3	0	75.5
Nauru	0.0	0.0	0.1	0.6	0	0	0	0	0	0.6	0	0	0	0	0	0.5	..

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)		SOURCE		
	RENEWABLE ENERGY					FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)					TRANSPORT (3)		TOTAL FINAL ENERGY CONSUMPTION (PJ)						
	2000	2010	2015	2019	2019	2019	2019	SOLAR	WIND	HYDRO	BIOGASES	BIOFUELS	SOLID BIOFUELS	MUNICIPAL WASTE (RENEWABLE)	ELECTRICITY CONSUMPTION (2)	HEAT RISING	2019	2019	
Nepal	88.3	87.3	85.0	77.4	71.2	0	2.1	4.1	0	0	0	0	0	0	23.7	421.9	0	575.8	b
Netherlands	1.7	3.9	5.7	8.5	2.4	1.6	0.5	0	0	2	1	0.3	0.8	72.5	60.8	27.5	1880.9	b	
New Caledonia	7.5	4.8	5.1	5.4	0.3	0	0	2.9	0	0.6	1.6	0	0	1.7	0.2	0	0	354	a
New Zealand	29.1	31.7	31.2	29.6	7.8	0.1	0.2	14.3	0	1.3	0.1	5.9	0	115.1	51.4	0.6	563.7	b	
Nicaragua	58.4	54.4	50.0	50.7	45.9	0	0	0.6	0	2	0.1	2.1	0	7.6	46.7	0	107.1	b	
Niger	87.6	80.7	78.9	80.8	80.7	0	0	0	0	0	0.1	0	0	0.2	104.9	0	130	b	
Nigeria	86.2	86.5	82.1	81.4	81	0	0	0.4	0	0	0	0	0	0	21.2	4550	0	5615.9	b
Niue	0.6	26.7	22.4	22.4	0.5	0	0	0	0	0	21.9	0	0	0	0	0	0	0.1	a
North Macedonia	19.4	22.3	23.9	16.3	9.7	0	0.3	5.5	0	0.5	0.1	0.2	0	0	5.1	8	0	80.3	b
Northern Mariana Islands	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3.7	a
Norway	60.2	56.4	58.1	62.4	4.9	2.6	0.4	51.3	0	2.3	0	0	0.8	401.6	452	25.5	757.2	b	
Oman	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	852.2	b
Pakistan	51.1	47.4	45.9	43.4	40.8	0	0	2.3	0	0.3	0.1	0	0	98.7	1504.2	0	3696.3	b	
Palau	0.0	0.0	0.0	0.3	0	0	0	0	0	0.3	0	0	0	0	0	0	0	2.2	a
Panama	27.7	20.6	21.9	18.9	7	0	0	9.9	0	1.4	0.6	0	0	18.3	10.7	0	153.1	q	
Papua New Guinea	66.4	55.3	55.1	53.1	49.9	0	0	2.1	0	0	0	1	0	4.6	71.8	0	143.9	a	
Paraguay	70.4	63.6	60.5	60.1	39.9	3	0	17.2	0	0	0	0	0	46.2	107.4	8.1	269.2	b	
Peru	38.6	32.2	27.4	27.1	12.5	2	0	11.6	0	0.6	0.5	0	0	108	108.8	15.3	855.5	b	
Philippines	33.4	32.6	30.7	26.7	20.9	1.6	0	1.6	0	0.2	0.2	2.1	0	651	3091	21.3	1479.8	b	
Poland	6.9	9.5	11.9	12.2	8.3	1.5	0.3	0.2	0	1.6	0.2	0	0.1	76.9	229.5	44.8	2882.6	b	
Portugal	20.1	27.8	27.2	28.2	13.1	1.8	0.2	4.5	0	7	1.3	0.1	0.2	90.4	81.7	12.3	654	b	
Puerto Rico	0.5	0.7	1.9	2.4	0	0	0.1	0.2	0	0.8	1.3	0	0	1.4	0	0	57.9	a	
Qatar	0.1	0.1	0.0	0.0	0	0	0	0	0	0	0	0	0	0.3	0	0	654.4	b	
Republic of Korea	0.7	1.3	2.7	3.4	1	0.6	0.1	0.2	0	0.2	0.8	0.2	0.2	88.9	65.3	27.4	5411.6	b	
Republic of Moldova	5.7	20.0	24.7	22.0	21.1	0	0.1	0.8	0	0.1	0	0	0	12	26.6	0	126.3	b	
Réunion	11.7	16.4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)			
	RENEWABLE ENERGY					CONTRIBUTION TO FINAL CONSUMPTION					TRANSPORT (3)		SOURCE					
	2000	2010	2015	2019	2019	HYDRO	WIND	SOLAR	GEOTHERMAL	MUNICIPAL WASTE (RENEWABLE)	ELECTRICITY CONSUMPTION (3)	HEAT RAISING (2)	2019	2019				
Romania	16.4	24.1	23.7	23.5	14.8	1.8	0.1	4.4	0	1.9	0.5	0.1	0	66.7	145.6	18.9	981.9	b
Russian Federation	3.5	3.3	3.2	3.2	0.6	0	0	2.6	0	0	0	0	0	426.4	13.8	51.6	1837.1	b
Rwanda	86.8	90.7	86.3	77.9	76.4	0	0	1.4	0	0.1	0	0	0	1.3	68.9	0	90.2	a
Saint Helena	7.1	9.2	13.0	9.4	3.6	0	0	0	0	3.8	2	0	0	0	0	0	0.2	a
Saint Kitts and Nevis	26.6	1.0	16	16	0	0	0	0	0	11	0.4	0	0	0	0	0	2	a
Saint Lucia	24.1	13.2	11.5	9.7	9.5	0	0	0	0	0	0.3	0	0	0	0.5	0	5.5	a
Saint Pierre and Miquelon	0.5	1.5	1.0	0.9	0.9	0	0	0	0	0	0	0	0	0	0	0	0.6	a
Saint Vincent and the Grenadines	8.5	5.1	4.3	5.7	2.2	0	0	3.2	0	0	0.3	0	0	0.1	0	0	2.5	a
Samoa	59.7	41.3	37.5	34.2	29.3	0	0	3.3	0	0	1.6	0	0	0.2	1.5	0	4.9	a
Sao Tome and Principe	54.7	43.8	40.2	37.1	36.2	0	0	0.8	0	0	0.1	0	0	0	0.8	0	2.2	a
Saudi Arabia	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	1.2	0.3	0	447.14	b
Senegal	47.5	49.5	39.1	37.2	36.4	0	0	0	0	0.1	0.7	0	0	1.3	42.4	0	117.3	b
Serbia	22.1	20.5	21.2	21.5	13.1	0	0.2	7.4	0	0.7	0	0.1	0	28.3	46.5	0.4	349.7	b
Seychelles	1.5	0.7	1.4	1.5	0.6	0	0	0	0.5	0.3	0	0	0	0	0	0	5	a
Sierra Leone	91.3	84.9	75.0	75.4	74.4	0	0	1	0	0	0	0	0	0.6	42.8	0	57.5	a
Singapore	0.3	0.5	0.6	0.8	0.2	0	0	0	0	0.3	0	0.4	4	0	0	0.3	512.2	b
Sint Maarten (Dutch part)	0.0	0.0	0.0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	7.7	a
Slovakia	3.7	10.3	13.4	17.6	11.4	1.5	0.7	3.2	0	0	0.5	0	0.2	20.9	481	7	430.9	b
Slovenia	18.0	20.1	21.4	20.9	10.8	2	0.2	6.9	0	0	0.7	0.3	0	15.3	22.5	4.2	202	b
Solomon Islands	55.3	45.1	48.6	48.4	48.2	0	0	0	0	0.2	0	0	0	0	3.2	0	6.7	a
Somalia	93.3	93.6	94.5	95.0	95	0	0	0	0	0	0	0.1	0	309.3	197.2	73.5	3358.9	b
South Africa	16.3	11.8	10.3	10.5	9.1	0	0	0.1	0	0.7	0.7	0	0	33.8	250	0.5	2708.3	b
South Sudan	..	26.7	26.6	26.6	0	0	0	0	0.1	0	0	0	0	5.6	0	0	21	b
Spain	7.9	14.4	16.3	17.3	5.7	2.1	0.2	2.3	0	5.2	1.8	0	0.1	309.3	197.2	73.5	3358.9	b
Sri Lanka	64.2	61.8	52.9	49.9	45.9	0	0	3.7	0	0.3	0.1	0	0	17.5	196.1	0	4281	b

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)					TOTAL FINAL ENERGY CONSUMPTION (PJ)			
	RENEWABLE ENERGY					NON-RENEWABLE ENERGY					CONSUMPTION BY SOURCE			TRANSPORT (3)		FINAL ENERGY CONSUMPTION (PJ)			
	2000	2010	2015	2019	2019	2019	2019	2019	2019	2019	MUNICIPAL WASTE (RENW.)	GEOTHERMAL	ELECTRICITY CONSUMPTION (3)	HEAT RAISING (2)	TRANSPORT (3)	TOTAL FINAL ENERGY CONSUMPTION (PJ)			
	2000	2010	2015	2019	2019	2019	2019	2019	2019	2019	SOLID BIOFUELS	BIOGASES	HYDRO	TIDE	WIND	2019	2019	2019	
State of Palestine	17.5	14.1	11.0	13.9	4.8	0	0	0	0	9.1	0	0	3.3	6.3	0	69	a	b	
Sudan	80.4	61.3	63.0	62.2	56.6	0	0	5.6	0	0	0	0	0	29.6	298.7	0	527.4	b	b
Suriname	23.6	22.1	11.6	14.4	3.9	0	0	10.4	0	0.1	0	0	0	3	1.1	0	29.1	b	b
Sweden	39.8	44.7	51.9	52.9	26.7	5.5	0.5	13.8	0	4.2	0.2	0	21	257.6	346.2	63.9	1262.7	b	b
Switzerland	18.2	20.6	23.9	24.8	5.5	1	0.4	15	0	0.1	1.2	0	1.6	116.7	52.6	14.2	741.3	b	b
Syrian Arab Republic	20	1.3	0.6	1.0	0.1	0	0	0.9	0	0	0	0	0	1.9	0.2	0	205.1	b	b
Tajikistan	62.4	61.8	48.1	38.6	0	0	0	38.6	0	0	0	0	0	50.5	0	0	130.9	b	b
Thailand	21.8	22.8	22.6	24.0	18.2	2.8	1	0.7	0	0.4	0.6	0	0.2	122.9	576.8	90.9	3299.7	b	b
Timor-Leste	0.0	34.8	18.0	11.7	11.6	0	0	0.1	0	0	0	0	0	0	0.7	0	6.4	a	a
Togo	77.1	65.8	81.0	76.2	74.4	0	0	1.8	0	0	0	0	0	16	66.3	0	89.1	b	b
Tonga	2.5	1.0	1.9	1.8	0.7	0	0	0	0	0	1.1	0	0	0	0	0	1.9	a	a
Trinidad and Tobago	0.8	0.4	0.4	0.4	0	0	0	0	0	0	0	0	0	0	0.5	0	110.1	b	b
Tunisia	14.2	12.6	12.5	12.2	10.7	0	0	0.1	0	0.4	1	0	0	2.3	38.7	0	335.9	b	b
Turkey	17.3	14.2	13.3	14.1	1.6	0.2	0.2	6.4	0	1.6	1.5	2.6	0	394.2	182.3	9.5	4150.9	b	b
Turkmenistan	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0.4	0	757.3	b	b
Turks and Caicos Islands	0.4	0.3	0.4	0.4	0.3	0	0	0	0	0.1	0	0	0	0	0	0	3.2	a	a
Tuvalu	0.0	0.3	3.9	8.2	0	0	0	0	0	0	8.2	0	0	0	0	0	0.1	a	a
Uganda	95.0	93.2	91.1	90.2	88.8	0	0	1.4	0	0	0	0	0	11.4	696.3	0	784.3	a	a
Ukraine	1.3	2.9	4.1	7.4	5.6	0.2	0.1	0.9	0	0.3	0.4	0	0	30.8	109.7	5.5	1962.3	b	b
United Arab Emirates	0.1	0.1	0.1	0.7	0.1	0	0	0	0	0.6	0	0	0	12.4	1.8	0	2130.2	b	b
United Kingdom of Great Britain and Northern Ireland	1.0	3.7	8.6	12.2	4.4	1.4	0.6	0.4	0	4.2	0.9	0	0.3	391.7	147.7	76.3	5031.8	b	b
United Republic of Tanzania	93.7	89.7	84.6	85.2	84.2	0	0	1	0	0	0	0	0	8.1	669.7	0	7954	b	b
United States of America	5.4	7.4	9.0	10.4	3.6	2.8	0.1	1.5	0	1.6	0.7	0.1	0.1	2410.8	2250.1	1581.7	59892	b	b
United States Virgin Islands	0.0	0.0	4.2	3.7	0	0	0	0	0	3.6	0	0	0.1	0	0	0	2	a	a
Uruguay	58.7	53.3	59.4	60.8	41.6	2.1	0	10.4	0	6.1	0.5	0	0	40	76.8	3	197.3	b	b

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)	
	2000					2010					2019					2019
	SOLAR	WIND	TIDE	HYDRO	BIOGASES	LIGUID BIOFUELS	SOLID BIOFUELS	MUNICIPAL WASTE (RENEWABLE)	ELECTRICITY CONSUMPTION (3)	HEAT RAISING (2)	TRANSPORT (3)	2019	2019	SOURCE	2019	
Uzbekistan	0.7	1.3	1.7	1.6	0	0	1.6	0	0	0	18.6	0.2	0.8	1248.5	b	
Vanuatu	48.7	38.4	35.9	31.9	29.4	0.1	0	0.9	0	0.7	0.6	0	0	0.8	0	
Venezuela (Bolivarian Republic of)	15.3	13.8	15.3	15.6	1.6	0	0	14	0	0	0	0	119.1	14	0	
Viet Nam	57.7	34.6	30.3	18.7	9.5	0.2	0	8.3	0	0.1	0.6	0	0	235.8	230.7	
Wallis and Futuna Islands	0.0	0.4	0.6	0.7	0	0	0	0.5	0	0	0.2	0	0	0	0	
Yemen	1.0	0.8	2.0	3.1	2.1	0	0	0	0	1	0	0	1.1	2.2	0	
Zambia	90.0	88.6	83.1	84.5	73.1	0	0	11.3	0	0	0.1	0	0	38	244.4	
Zimbabwe	69.3	82.3	80.8	81.5	78.1	0.4	0	2.9	0	0	0	0	12.4	313.8	1.7	
World	16.9	16.1	16.8	17.7	10.4	1.1	0.2	3.4	0	1.2	0.9	0.3	0.1	20977.3	41285.2	
Northern America (M49) and Europe (M49)	7.4	10.1	12.0	13.1	5	1.9	0.3	3.1	0	1.7	0.7	0.1	0.2	8091.1	6942.2	
Northern America (M49)	7.3	9.1	10.8	11.8	3.8	2.6	0.1	3.1	0	1.5	0.6	0.1	0.1	3779.5	2615.7	
Europe (M49)	7.4	11.0	13.2	14.3	6.1	1.2	0.5	3.2	0	1.9	0.8	0.2	0.3	4314.8	4325.7	
Latin America and the Caribbean (MDG=M49)	28.4	29.2	28.5	30.9	15.6	4.5	0	8.9	..	1.2	0.6	0.1	0	2668.3	3557.8	
Central Asia (M49) and Southern Asia (MDG=M49)	34.4	27.5	26.5	26.1	22.8	0.1	0.2	2	0	0.5	0.5	0	0	1284.8	9519.3	
Central Asia (M49)	3.6	2.8	3.3	3.4	0.1	0	0	3.2	0	0.1	0	0	0	1276	2.2	
Southern Asia (MDG=M49)	39.5	31.0	29.1	28.5	25.2	0.1	0.2	1.9	0	0.6	0.5	0	0	1153.6	9517.1	
Eastern Asia (M49) and South-eastern Asia (MDG=M49)	23.1	13.4	13.2	14.3	5.6	0.4	0.3	4.2	0	1.2	1.7	0.8	0	7702.9	8052.6	
Eastern Asia (M49)	19.8	10.5	11.0	13.1	3.9	0.2	0.3	4.5	0	1.4	2	0.8	0	6927.2	5410	
South-eastern Asia (MDG=M49)	38.2	30.1	25.9	21.1	15.2	1.9	0.2	2.9	0	0.1	0.2	0.4	0	773.3	2642.6	
Western Asia (M49) and Northern Africa (M49)	8.4	6.2	5.5	5.9	2.6	0	0	1.7	0	0.4	0.6	0.5	0	5668	719.8	
Western Asia (M49)	6.1	4.5	3.9	4.5	0.6	0	0.1	1.9	0	0.4	0.8	0.7	0	464.1	254.6	

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)										FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)	SOURCE		
	2000					2010					2015							
	SOLAR	WIND	TIDE	HYDRO	BIOGASES	LIAQUEOUS	SOLID BIOFUELS	RENEWABLE ENERGY	2000	2010	2015	2019	2019	2019	2019	2019		
Northern Africa (M49)	15.0	11.2	10.1	9.8	7.9	0	0	1.2	0	0.4	0.2	0	0	103.6	465.5	0.9	5843.5	C
Sub-Saharan Africa (M49)	72.5	71.0	68.6	68.3	66.2	0	0	1.7	..	0.1	0.1	0.1	..	378.1	1274.2	4.9	18391.4	C
Oceania (M49)	13.1	12.8	13.9	14.4	7	0.1	0.2	3.2	0	1.5	1.6	0.8	0	264.8	303.9	12.2	4039	C
Oceania (M49) excluding Australia and New Zealand (M49)	46.4	36.5	38.4	36.9	33	0	0	2.7	0	0.1	0.5	0.6	0	9.5	82.5	0	249.6	C
Australia and New Zealand (M49)	11.4	11.4	12.4	12.9	5.3	0.1	0.2	3.2	0	1.6	1.6	0.8	0	254.9	221.4	12.2	3789.4	C
Least Developed Countries (LDCs)	83.9	76.2	72.9	69.4	65.8	0	0.1	3.4	0	0	0.1	0	0	407.9	7600.5	0.2	11531.7	C
Small island developing States (SIDS)	25.4	17.8	18.5	18.1	16.1	0.5	0	0.7	0	0.3	0.3	0.1	0.1	33.4	325.8	2.4	19923	C
Landlocked developing countries (LLDCs)	43.6	41.8	44.3	43.1	38.6	0.1	0.1	4.1	0	0	0	0	0	442.7	4124.1	20.8	10650.4	C
Africa (M49)	60.7	56.6	54.8	54.2	52.1	0	0	1.6	..	0.2	0.2	0.1	..	478.3	12639.8	5.9	24234.9	C
Asia (M49)	24.2	15.8	15.3	16.2	9.3	0.3	0.2	3.4	0	0.9	1.3	0.6	0	9403.2	17827.7	696.5	172592.8	C
Americas (m49)	11.8	14.3	15.6	16.8	6.8	3.1	0.1	4.7	0	1.4	0.6	0.1	0	6476	6173.3	2710.8	91197.8	C
Caribbean (M49)	25.5	18.3	20.7	20.8	18.7	1	0	0.4	..	0.4	0.3	..	..	13.8	204	1.6	1053.4	C
Central America (M49)	18.1	16.5	16.5	17.7	13.2	0	0	2.3	0	1.1	0.7	0.5	0	273.4	768.6	0.9	5898.8	C
Eastern Africa (M49)	88.1	87.5	84.5	83.0	79.8	0	0	2.9	..	0.1	0	0.2	..	194	4696.2	2	5892.2	C
Eastern Europe (M49)	4.3	5.7	6.3	6.6	3.5	0.4	0.1	2.2	0	0.3	0.1	0	0	690.7	974.3	159.5	27604.4	C
Melanesia (M49)	54.2	43.2	43.8	41.9	37.9	0	0	2.9	0	0.1	0.3	0.7	0	8.4	80.2	0	211.4	C
Micronesia (M49)	4.8	4.7	5.2	5.8	4.5	0	0	0	0	1.2	0	0	0.2	0.7	0	0	16.6	C
Middle Africa (M49)	88.1	79.0	76.0	79.0	74.9	0	0	4.1	0	0	0	0	0	82.9	151.8	0	2019.7	C
Northern Europe (M49)	15.4	19.0	25.6	28.5	12.2	2.1	0.6	7.6	0	4.2	0.6	0.5	0.8	1438	1130.1	212	9739.4	C
Polynesia (M49)	17.6	10.2	12.3	12.0	6.9	0	0	3.2	0	0	1.8	0	0	1	1.6	0	216	C
South America (M49)	32.8	34.5	33.2	36.1	16.3	6.3	0	11.7	..	1.3	0.5	0	0	2367.9	2585.2	1024.8	6555.6	C
Southern Africa (M49)	18.4	13.9	12.2	12.1	10.6	0	0	0.2	0	0.6	0.6	0	0	40.2	316.1	0.6	2944.4	C

UN COUNTRY NAME	SHARE IN TOTAL FINAL ENERGY CONSUMPTION (%)						FINAL CONSUMPTION OF RENEWABLE ENERGY (PJ)				TOTAL FINAL ENERGY CONSUMPTION (PJ)	
	2000	2010	2015	2019	2019	2019	SOLAR	GEOTHERMAL	MUNICIPAL WASTE (RENEW)	ELECTRICITY CONSUMPTION (1)	HEAT RAISING (2)	SOURCE
Southern Europe (M49)	8.7	15.4	18.2	19.1	7.7	1.6	0.5	3.8	0	3.2	18	0.3
Western Africa (M49)	83.3	81.9	77.4	75.9	75	0	0	0.8	0	0	0	67.4
Western Europe (M49)	6.7	11.8	14.3	16.4	6.1	1.8	1.1	2.4	0	2.9	1.4	0.1
Developing regions (MDG)	32.2	23.0	22.0	22.7	15.4	0.8	0.2	3.9	0	0.9	1.1	0.5
Developed regions (MDG)	72	9.7	11.6	12.7	4.8	17	0.3	31	0	16	0.9	0.1
Northern Africa (MDG)	7.3	5.4	4.7	4.6	3.1	0	0	0.8	0	0.5	0.3	0
Sub-Saharan Africa (MDG)	72.7	70.7	68.5	68.1	65.9	0	0	1.8	..	0.1	0.1	..
Eastern Asia (MDG)	25.5	11.5	11.6	13.7	4.1	0.2	0.4	4.7	0	1.5	2	0.9
Western Asia (MDG)	5.7	3.9	3.6	4.3	0.6	0	0.1	1.8	0	0.4	0.7	0.7
Oceania (MDG)	46.4	36.5	38.4	36.9	33	0	0	2.7	0	0.1	0.5	0.6
Caucasus and Central Asia (MDG)	4.7	3.9	4.2	4.0	0.4	0	0	3.5	0	0.1	0	0

REFERENCE

- a. Source: Energy Balances, UN Statistics Division (2021)
- b. Source: IEA (2021), World Energy Balances
- c. Sources: IEA (2021), World Energy Balances; Energy Balances, UN Statistics Division (2021)

DEFINITIONS

Final consumption of renewable energy:

- (1) Electricity consumption: Covers final consumption of renewable electricity in all sectors excluding transport
- (2) Heat raising: Covers final consumption of renewable energy for heat raising purposes (excluding electricity) in manufacturing, construction and non fuel mining industries, household, commerce and public services, agriculture, forestry, fishing and not elsewhere specified.
- (3) Transport: Covers final consumption of renewable energy (including electricity) in the transport sector.

NOTES

Allocation of renewable electricity and heat to final energy consumption:

- To establish the contribution of each technology to the final consumption, the aggregated figures for electricity and commercial heat have to be allocated to the relevant technology.
- This can be done based on the proportions exhibited in production data, attributing the losses proportionally (GTF 2013). For instance, if total final consumption table reports 150 TJ for biogases, while total final consumption of electricity is 400 TJ and heat 100 TJ, and the share of biogases in total electricity output is 10 percent and 5 percent in heat, the total reported number for biogases consumption will be 195 TJ (150 TJ+400 TJ*10%+100 TJ*5%).

SDG 7.3 - ENERGY EFFICIENCY

Data provided by the IEA and UNSD

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UN COUNTRY NAME	2000			2010			2015			2019			2000-2010			2010-2015			2015-2019			SOURCE
	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019		
Afghanistan	1.6	2.5	2.4	2.4	4.2%	4.2%	-3.7%	0.6%	-0.7%	-0.7%	-1.1%	2.7%	0.3%	-0.3%	-0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	a	
Albania	4.1	2.9	2.7	2.5	-3.7%	-3.7%	-3.7%	-3.7%	-0.7%	-0.7%	-0.7%	-0.7%	-1.8%	-1.8%	-1.8%	-1.8%	-1.8%	-1.8%	-1.8%	-1.8%	b	
Algeria	4.2	4.4	5.1	5.3	0.6%	0.6%	0.6%	0.6%	2.7%	2.7%	2.7%	2.7%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	1.3%	b	
American Samoa	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Andorra	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Angola	3.7	2.6	2.9	2.9	-3.4%	-3.4%	-3.4%	-3.4%	-3.4%	-3.4%	-3.4%	-3.4%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	b	
Anguilla	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Antigua and Barbuda	3.1	4.1	4.0	3.5	2.6%	2.6%	2.6%	2.6%	0.4%	0.4%	0.4%	0.4%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	-3.5%	a	
Argentina	3.7	3.3	3.4	3.4	-1.2%	-1.2%	-1.2%	-1.2%	0.6%	0.6%	0.6%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	b	
Armenia	6.8	3.9	4.1	3.5	-5.4%	-5.4%	-5.4%	-5.4%	1.1%	1.1%	1.1%	1.1%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	-3.8%	b	
Aruba	14.4	16.2	3.3	3.2	1.2%	1.2%	1.2%	1.2%	-27.4%	-27.4%	-27.4%	-27.4%	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%	-0.6%	a	
Australia	6.2	5.3	4.7	4.3	-1.4%	-1.4%	-1.4%	-1.4%	-2.6%	-2.6%	-2.6%	-2.6%	-2.1%	-2.1%	-2.1%	-2.1%	-2.1%	-2.1%	-2.1%	-2.1%	b	
Austria	3.2	3.3	3.0	2.8	0.2%	0.2%	0.2%	0.2%	-1.8%	-1.8%	-1.8%	-1.8%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	b	
Azerbaijan	14.5	3.8	4.3	4.6	-12.5%	-12.5%	-12.5%	-12.5%	2.2%	2.2%	2.2%	2.2%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	b	
Bahamas	2.3	2.1	2.3	2.5	-0.8%	-0.8%	-0.8%	-0.8%	1.7%	1.7%	1.7%	1.7%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	2.1%	a	
Bahrain	10.4	9.6	9.1	8.7	-0.8%	-0.8%	-0.8%	-0.8%	-1.2%	-1.2%	-1.2%	-1.2%	-0.9%	-0.9%	-0.9%	-0.9%	-0.9%	-0.9%	-0.9%	-0.9%	b	
Bangladesh	3.1	2.9	2.7	2.4	-0.7%	-0.7%	-0.7%	-0.7%	-1.7%	-1.7%	-1.7%	-1.7%	-3.2%	-3.2%	-3.2%	-3.2%	-3.2%	-3.2%	-3.2%	-3.2%	b	
Barbados	3.8	4.6	3.9	3.5	1.8%	1.8%	1.8%	1.8%	-3.3%	-3.3%	-3.3%	-3.3%	-2.2%	-2.2%	-2.2%	-2.2%	-2.2%	-2.2%	-2.2%	-2.2%	a	
Belarus	12.9	7.0	6.1	6.0	-5.9%	-5.9%	-5.9%	-5.9%	-2.8%	-2.8%	-2.8%	-2.8%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	b	
Belgium	5.5	4.8	3.9	3.9	-1.4%	-1.4%	-1.4%	-1.4%	-3.9%	-3.9%	-3.9%	-3.9%	-0.5%	-0.5%	-0.5%	-0.5%	-0.5%	-0.5%	-0.5%	-0.5%	b	
Belize	6.7	5.4	5.8	6.1	-2.1%	-2.1%	-2.1%	-2.1%	1.4%	1.4%	1.4%	1.4%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	1.2%	a	
Benin	4.9	6.0	5.8	5.7	2.1%	2.1%	2.1%	2.1%	-0.7%	-0.7%	-0.7%	-0.7%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	-0.4%	b	
Bermuda	1.5	1.5	1.6	1.7	0.1%	0.1%	0.1%	0.1%	0.7%	0.7%	0.7%	0.7%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	0.9%	a	
Bhutan	18.4	10.1	8.7	7.9	-5.8%	-5.8%	-5.8%	-5.8%	-3.0%	-3.0%	-3.0%	-3.0%	-2.3%	-2.3%	-2.3%	-2.3%	-2.3%	-2.3%	-2.3%	-2.3%	b	
Bolivia (Plurinational State of)	3.5	4.1	4.1	3.8	1.4%	1.4%	1.4%	1.4%	0.1%	0.1%	0.1%	0.1%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	-1.6%	b	
Bonaire, Sint Eustatius and Saba	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Bosnia and Herzegovina	6.8	6.7	6.0	6.1	-0.2%	-2.3%	0.7%	b
Botswana	4.0	3.3	3.2	2.7	-2.1%	-0.6%	-3.8%	b
Brazil	3.9	3.9	4.1	3.9	-0.1%	1.0%	-0.7%	b
British Virgin Islands	..	..	..	..	..	..	..	a
Brunei Darussalam	4.3	5.2	4.3	6.4	1.7%	-3.4%	10.0%	b
Bulgaria	9.3	5.8	5.5	4.7	-4.7%	-1.0%	-3.5%	b
Burkina Faso	5.5	5.4	4.9	4.5	-0.1%	-1.8%	-2.4%	a
Burundi	10.4	7.9	7.4	7.6	-2.6%	-1.4%	0.8%	a
Cabo Verde	3.3	3.0	2.6	2.6	-0.8%	-2.7%	-0.4%	a
Cambodia	79	5.1	4.6	4.7	-4.4%	-1.9%	0.5%	b
Cameroon	6.2	4.7	4.8	4.3	-2.8%	0.4%	-2.3%	b
Canada	9.3	7.2	6.9	6.9	-2.6%	-0.7%	0.1%	b
Cayman Islands	1.9	2.1	1.9	2.1	1.0%	-1.8%	1.8%	a
Central African Republic	7.7	6.8	9.4	8.4	-1.3%	6.8%	-2.8%	a
Chad	8.2	4.0	3.3	3.8	-7.1%	-3.5%	3.3%	a
Chile	4.4	3.6	3.4	3.7	-2.1%	-1.0%	2.0%	b
China	10.9	8.9	7.2	6.3	-1.9%	-4.2%	-3.3%	b
China, Hong Kong Special Administrative Region	2.5	1.6	1.5	1.3	-4.4%	-11%	-2.9%	b
China, Macao Special Administrative Region	1.1	0.5	0.6	0.5	-7.2%	3.1%	-4.3%	a
Colombia	3.0	2.4	2.5	2.5	-2.2%	1.1%	-0.2%	b
Comoros	2.7	2.8	2.7	3.2	0.4%	-0.9%	4.6%	a
Congo	2.2	3.2	4.6	6.6	3.9%	7.8%	9.1%	b
Cook Islands	..	..	..	..	..	..	..	a
Costa Rica	2.4	2.5	2.2	2.1	0.3%	-2.1%	-1.3%	b
Côte d'Ivoire	4.2	4.6	4.0	3.3	0.9%	-3.1%	-4.3%	b
Croatia	4.3	3.8	3.4	3.1	-1.4%	-2.0%	-2.5%	b
Cuba	3.5	1.9	1.6	1.3	-6.1%	-3.2%	-5.1%	b
Curaçao	22.2	20.2	22.3	8.3	-1.0%	2.0%	-21.8%	b

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Greece	3.6	3.1	3.2	2.9	-1.5%	0.6%	-2.3%	b
Greenland	..	..	..	..	..	..	..	a
Grenada	2.5	2.8	2.4	2.7	1.4%	-2.9%	2.4%	a
Guadeloupe	..	..	..	..	..	..	..	a
Guam	..	..	..	..	..	..	..	a
Guatemala	4.0	4.1	4.2	4.2	0.3%	0.1%	0.5%	b
Guernsey	..	..	..	..	..	..	..	a
Guinea	9.1	7.7	6.4	5.6	-1.6%	-3.8%	-3.3%	a
Guinea-Bissau	11.2	10.5	9.7	8.6	-0.6%	-1.6%	-3.0%	a
Guyana	5.8	4.7	4.0	4.0	-2.1%	-3.2%	-0.1%	a
Haiti	5.6	5.9	5.6	5.8	0.4%	-0.9%	0.9%	b
Honduras	4.7	4.9	5.0	4.3	0.5%	0.5%	-3.8%	b
Hungary	5.3	4.5	3.9	3.5	-1.5%	-3.0%	-2.6%	b
Iceland	11.2	15.0	13.6	12.3	3.0%	-2.0%	-2.5%	b
India	6.4	5.3	4.8	4.3	-1.8%	-2.1%	-2.9%	b
Indonesia	5.4	4.2	3.3	3.2	-2.5%	-5.0%	-0.8%	b
Iran (Islamic Republic of)	7.8	8.4	10.0	11.1	0.7%	3.5%	2.8%	b
Iraq	5.1	5.3	4.4	5.6	0.5%	-3.9%	6.3%	b
Ireland	3.1	2.5	1.6	1.3	-2.4%	-7.7%	-5.3%	b
Isle of Man	..	..	..	..	..	..	..	a
Israel	3.9	3.7	2.9	2.5	-0.5%	-4.5%	-3.6%	b
Italy	2.9	2.9	2.6	2.5	-0.2%	-1.9%	-1.6%	b
Jamaica	5.9	3.8	3.9	4.5	-4.3%	0.4%	3.5%	b
Japan	4.8	4.4	3.6	3.3	-0.9%	-3.8%	-1.9%	b
Jersey	..	..	..	..	..	..	..	a
Jordan	4.6	3.6	3.8	3.8	-2.3%	1.2%	-0.3%	b
Kazakhstan	9.8	8.6	5.4	6.3	-1.3%	-8.8%	3.9%	b
Kenya	6.4	5.9	5.8	5.3	-0.8%	-0.3%	-2.2%	b
Kiribati	5.1	6.8	5.8	5.9	2.9%	-3.2%	0.7%	a
Kosovo	8.1	7.0	6.1	5.4	-1.4%	-2.9%	-2.7%	b

UN COUNTRY NAME	2000				2010				2015				2019				2000-2010		2010-2015		2015-2019		SOURCE
	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	2015	2019	2000	2010	
Kuwait	6.9	7.4	7.1	7.4	7.4	7.1	7.4	7.4	0.7%	0.7%	-0.9%	-0.9%	1.1%	1.1%	1.1%	1.1%	-3.9%	-3.9%	-3.9%	-3.9%	b	b	b
Kyrgyzstan	6.4	5.1	5.8	5.0	5.1	5.8	5.0	5.0	-2.3%	-2.3%	2.6%	2.6%	-3.9%	-3.9%	-3.9%	-3.9%	..	..	..	..	a	a	a
Lao People's Democratic Republic	3.8	3.3	3.8	4.4	3.8	3.3	4.4	4.4	-1.3%	-1.3%	2.9%	2.9%	3.3%	3.3%	3.3%	3.3%	..	..	..	..	a	a	a
Latvia	5.3	4.3	3.4	3.2	5.3	4.3	3.4	3.2	-2.1%	-2.1%	-4.6%	-4.6%	-1.6%	-1.6%	-1.6%	-1.6%	b	b	b	b	b	b	b
Lebanon	3.7	2.8	3.3	3.6	3.7	2.8	3.3	3.6	-2.9%	-2.9%	3.3%	3.3%	2.6%	2.6%	2.6%	2.6%	b	b	b	b	b	b	b
Lesotho	14.0	11.1	8.3	8.1	14.0	11.1	8.3	8.1	-2.3%	-2.3%	-5.6%	-5.6%	-0.4%	-0.4%	-0.4%	-0.4%	a	a	a	a	a	a	a
Liberia	10.1	13.5	13.0	14.3	10.1	13.5	13.0	14.3	3.0%	3.0%	-0.8%	-0.8%	2.5%	2.5%	2.5%	2.5%	a	a	a	a	a	a	a
Libya	7.4	6.1	10.8	8.9	7.4	6.1	10.8	8.9	-1.9%	-1.9%	12.2%	12.2%	-4.8%	-4.8%	-4.8%	-4.8%	b	b	b	b	b	b	b
Liechtenstein	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Lithuania	6.2	4.0	3.3	3.1	6.2	4.0	3.3	3.1	-4.3%	-4.3%	-3.7%	-3.7%	-1.8%	-1.8%	-1.8%	-1.8%	b	b	b	b	b	b	b
Luxembourg	3.4	3.2	2.5	2.3	3.4	3.2	2.5	2.3	-0.3%	-0.3%	-5.2%	-5.2%	-1.5%	-1.5%	-1.5%	-1.5%	b	b	b	b	b	b	b
Madagascar	6.0	6.1	6.7	8.6	6.0	6.1	6.7	8.6	0.1%	0.1%	1.9%	1.9%	6.4%	6.4%	6.4%	6.4%	a	a	a	a	a	a	a
Malawi	5.3	3.9	3.4	3.2	5.3	3.9	3.4	3.2	-3.1%	-3.1%	-2.7%	-2.7%	-1.4%	-1.4%	-1.4%	-1.4%	a	a	a	a	a	a	a
Malaysia	5.5	5.2	4.7	4.3	5.5	5.2	4.7	4.3	-0.4%	-0.4%	-2.1%	-2.1%	-2.6%	-2.6%	-2.6%	-2.6%	b	b	b	b	b	b	b
Maldives	1.7	2.3	2.4	2.7	1.7	2.3	2.4	2.7	2.6%	2.6%	1.3%	1.3%	2.9%	2.9%	2.9%	2.9%	a	a	a	a	a	a	a
Mali	4.8	4.9	5.2	4.6	4.8	4.9	5.2	4.6	0.1%	0.1%	1.4%	1.4%	-3.2%	-3.2%	-3.2%	-3.2%	a	a	a	a	a	a	a
Malta	2.6	2.6	1.5	1.4	2.6	2.6	1.5	1.4	-0.2%	-0.2%	-10.0%	-10.0%	-2.5%	-2.5%	-2.5%	-2.5%	b	b	b	b	b	b	b
Marshall Islands	9.4	10.5	10.7	9.7	9.4	10.5	10.7	9.7	1.2%	1.2%	0.4%	0.4%	-2.4%	-2.4%	-2.4%	-2.4%	a	a	a	a	a	a	a
Martinique	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Mauritania	2.5	2.8	2.9	3.2	2.5	2.8	2.9	3.2	1.0%	1.0%	1.3%	1.3%	2.5%	2.5%	2.5%	2.5%	a	a	a	a	a	a	a
Mauritius	3.0	2.6	2.4	2.1	3.0	2.6	2.4	2.1	-1.3%	-1.3%	-1.8%	-1.8%	-2.8%	-2.8%	-2.8%	-2.8%	b	b	b	b	b	b	b
Mayotte	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Mexico	3.6	3.7	3.3	3.1	3.6	3.7	3.3	3.1	0.2%	0.2%	-2.2%	-2.2%	-1.8%	-1.8%	-1.8%	-1.8%	b	b	b	b	b	b	b
Micronesia (Federated States of)	7.2	4.1	5.7	5.5	7.2	4.1	5.7	5.5	-5.5%	-5.5%	6.6%	6.6%	-0.6%	-0.6%	-0.6%	-0.6%	a	a	a	a	a	a	a
Mongolia	9.2	8.1	5.9	7.0	9.2	8.1	5.9	7.0	-1.3%	-1.3%	-6.2%	-6.2%	4.4%	4.4%	4.4%	4.4%	b	b	b	b	b	b	b
Montenegro	..	4.6	3.7	3.4	..	4.6	3.7	3.4	..	..	-4.1%	-4.1%	-1.9%	-1.9%	-1.9%	-1.9%	b	b	b	b	b	b	b
Montserrat	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	a
Morocco	3.6	3.5	3.3	3.3	3.6	3.5	3.3	3.3	-0.4%	-0.4%	-1.3%	-1.3%	0.6%	0.6%	0.6%	0.6%	b	b	b	b	b	b	b
Mozambique	26.9	12.7	13.0	11.9	26.9	12.7	13.0	11.9	-7.3%	-7.3%	0.5%	0.5%	-2.0%	-2.0%	-2.0%	-2.0%	b	b	b	b	b	b	b
Myanmar	10.5	3.7	3.4	3.6	10.5	3.7	3.4	3.6	-10.0%	-10.0%	-1.5%	-1.5%	1.3%	1.3%	1.3%	1.3%	b	b	b	b	b	b	b

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Namibia	3.6	3.6	3.3	3.5	0.0%	-1.5%	1.5%	b
Nauru	17.4	8.7	5.4	5.1	-6.7%	-9.1%	-1.6%	a
Nepal	6.8	5.9	5.5	5.2	-1.5%	-1.3%	-1.2%	b
Netherlands	4.2	4.0	3.4	3.1	-0.3%	-3.3%	-2.6%	b
New Caledonia	..	..	..	..	..	..	..	a
New Zealand	5.7	4.6	4.5	4.0	-2.0%	-0.6%	-2.7%	b
Nicaragua	5.2	4.7	4.5	4.7	-1.0%	-1.0%	1.0%	b
Niger	5.8	5.5	5.5	5.0	-0.6%	0.1%	-2.3%	b
Nigeria	10.0	6.8	6.0	6.4	-3.8%	-2.4%	1.4%	b
Niue	..	..	..	..	..	..	..	a
North Macedonia	5.4	4.3	3.6	3.4	-2.2%	-3.9%	-1.1%	b
Northern Mariana Islands	..	..	..	..	..	..	..	a
Norway	4.3	4.6	3.8	3.3	0.7%	-3.7%	-3.1%	b
Oman	4.1	7.6	8.2	7.2	6.3%	1.7%	-3.1%	b
Pakistan	5.8	5.1	4.7	4.6	-1.2%	-1.6%	-0.6%	b
Palau	11.2	10.7	8.7	9.6	-0.5%	-4.0%	2.6%	a
Panama	2.3	1.9	1.5	1.5	-2.0%	-4.1%	0.5%	b
Papua New Guinea	5.9	5.7	5.4	5.3	-0.4%	-10%	-0.5%	a
Paraguay	3.6	3.1	3.0	3.4	-1.3%	-0.7%	3.0%	b
Peru	3.3	2.5	2.6	2.6	-2.7%	0.4%	0.3%	b
Philippines	4.7	3.1	3.0	2.7	-4.0%	-1.2%	-2.5%	b
Poland	6.0	4.6	3.8	3.4	-2.6%	-4.0%	-2.4%	b
Portugal	3.3	2.9	2.9	2.5	-1.2%	-0.5%	-2.9%	b
Puerto Rico	0.1	0.2	0.5	0.6	7.3%	16.1%	7.3%	a
Qatar	8.9	6.4	6.3	6.8	-3.3%	-0.2%	1.8%	b
Republic of Korea	7.3	6.1	5.8	5.3	-1.7%	-1.3%	-2.0%	b
Republic of Moldova	8.1	6.4	5.3	4.8	-2.4%	-3.7%	-2.3%	b
Réunion	..	..	..	..	..	..	..	a
Romania	5.6	3.6	2.8	2.4	-4.4%	-4.6%	-4.0%	b
Russian Federation	12.1	8.5	7.8	8.1	-3.5%	-1.7%	1.1%	b

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Rwanda	7.8	5.6	4.6	3.9	-3.3%	-3.8%	-3.7%	a
Saint Helena	..	..	..	..	..	..	..	a
Saint Kitts and Nevis	3.1	2.7	2.6	2.6	-1.3%	-1.3%	0.2%	a
Saint Lucia	3.1	3.2	3.0	2.8	0.4%	-0.9%	-1.6%	a
Saint Pierre and Miquelon	..	..	..	..	..	..	..	a
Saint Vincent and the Grenadines	2.4	2.7	2.7	2.5	1.1%	0.0%	-2.3%	a
Samoa	5.3	3.8	4.3	4.4	-3.4%	2.8%	0.7%	a
Sao Tome and Principe	4.5	4.0	3.6	3.5	-1.3%	-1.9%	-1.1%	a
Saudi Arabia	4.7	6.1	5.8	5.6	2.6%	-0.8%	-1.1%	b
Senegal	4.0	4.7	4.2	3.7	1.7%	-2.2%	-3.3%	b
Serbia	8.5	6.2	5.6	5.0	-3.1%	-2.0%	-2.6%	b
Seychelles	2.9	3.3	2.9	3.1	1.2%	-2.3%	1.4%	a
Sierra Leone	11.1	6.6	6.2	5.4	-5.1%	-1.2%	-3.3%	a
Singapore	3.5	2.5	2.7	2.6	-3.3%	1.6%	-1.1%	b
Sint Maarten (Dutch part)	..	..	8.2	8.6	..	..	1.3%	a
Slovakia	8.8	5.5	4.4	4.1	-4.7%	-4.1%	-1.8%	b
Slovenia	5.2	4.5	4.0	3.5	-1.5%	-2.6%	-3.0%	b
Solomon Islands	7.0	6.2	5.0	4.3	-1.2%	-4.2%	-3.9%	a
Somalia	11.2	11.9	11.4	11.6	0.6%	-0.9%	0.6%	a
South Africa	10.1	8.8	7.6	8.0	-1.3%	-3.0%	1.4%	b
South Sudan	..	..	..	..	..	..	..	b
Spain	3.6	3.1	2.9	2.6	-1.6%	-1.4%	-1.9%	b
Sri Lanka	3.1	2.2	1.9	1.8	-3.4%	-2.5%	-2.2%	b
State of Palestine	2.9	2.6	2.8	2.8	-0.9%	1.4%	-0.5%	a
Sudan	7.9	4.8	4.7	4.6	-4.8%	-0.5%	-0.5%	b
Suriname	4.2	3.0	3.6	4.0	-3.3%	3.7%	2.8%	b
Sweden	5.5	4.8	3.8	3.8	-1.5%	-4.6%	0.3%	b
Switzerland	2.4	2.1	1.8	1.7	-1.5%	-3.1%	-1.7%	b
Syrian Arab Republic	15.5	14.0	10.1	10.5	-1.0%	-6.3%	1.0%	b
Tajikistan	10.9	5.1	4.6	4.8	-7.4%	-2.0%	1.4%	b

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Thailand	4.9	5.1	5.1	4.5	0.3%	-0.1%	-2.9%	b
Timor-Leste	..	1.4	1.8	2.1	..	4.9%	4.9%	a
Togo	10.6	12.5	9.2	8.0	1.7%	-6.0%	-3.3%	b
Tonga	3.0	3.1	2.7	3.4	0.4%	-2.6%	5.9%	a
Trinidad and Tobago	19.5	21.6	19.9	19.9	1.0%	-1.6%	0.0%	b
Tunisia	4.3	4.0	3.9	3.8	-0.7%	-0.7%	-0.8%	b
Turkey	3.3	3.1	2.7	2.6	-0.7%	-2.8%	-0.4%	b
Turkmenistan	29.9	21.7	16.0	12.9	-3.2%	-5.9%	-5.3%	b
Turks and Caicos Islands	3.4	5.4	4.8	4.7	4.8%	-2.5%	-0.2%	a
Tuvalu	3.5	3.9	2.6	2.6	1.2%	-7.5%	-0.3%	a
Uganda	13.4	10.7	10.2	10.0	-2.2%	-0.8%	-0.7%	a
Ukraine	15.8	10.3	8.1	7.0	-4.2%	-4.7%	-3.7%	b
United Arab Emirates	4.1	5.5	5.6	3.4	3.0%	0.3%	-11.8%	b
United Kingdom of Great Britain and Northern Ireland	4.1	3.2	2.6	2.3	-2.5%	-4.2%	-3.0%	b
United Republic of Tanzania	12.3	9.1	7.5	6.2	-3.0%	-3.9%	-4.6%	b
United States of America	6.7	5.5	4.9	4.5	-2.0%	-2.5%	-2.0%	b
United States Virgin Islands	..	..	..	..	..	..	..	a
Uruguay	2.7	2.6	2.8	2.8	-0.3%	0.9%	0.2%	b
Uzbekistan	28.2	14.2	7.9	8.4	-6.6%	-11.2%	1.6%	b
Vanuatu	3.7	3.7	3.6	3.5	0.1%	-0.5%	-0.5%	a
Venezuela (Bolivarian Republic of)	..	..	..	..	..	..	..	b
Viet Nam	5.1	5.5	5.1	4.9	0.7%	-1.3%	-1.0%	b
Wallis and Futuna Islands	..	..	..	..	..	..	..	a
Yemen	..	..	..	..	..	..	..	b
Zambia	12.8	7.9	7.4	7.1	-4.7%	-1.2%	-1.1%	b
Zimbabwe	9.4	12.7	10.4	10.5	3.1%	-4.0%	0.3%	b
World	6.2	5.6	5.0	4.7	-1.0%	-2.1%	-1.6%	c
Northern America (M49) and Europe (M49)	5.9	5.0	4.4	4.1	-1.8%	-2.4%	-1.6%	c

UN COUNTRY NAME	2000	2010	2015	2019	2000-2010	2010-2015	2015-2019	SOURCE
Central America (M49)	3.6	3.6	3.3	3.1	0.2%	-2.1%	-1.6%	c
Eastern Africa (M49)	11.0	8.7	7.7	7.0	-2.2%	-2.4%	-2.4%	c
Eastern Europe (M49)	10.3	7.3	6.3	6.2	-3.4%	-2.7%	-0.6%	c
Melanesia (M49)	4.9	4.8	4.6	4.5	-0.3%	-0.8%	-0.6%	c
Micronesia (M49)	8.8	14.3	13.3	12.9	5.0%	-1.5%	-0.8%	c
Middle Africa (M49)	6.4	5.2	5.6	5.6	-2.1%	1.5%	0.1%	c
Northern Europe (M49)	4.4	3.7	3.0	2.7	-1.7%	-4.3%	-2.6%	c
Polynesia (M49)	..	..	..	..	..	..	..	c
South America (M49)	3.7	3.5	3.6	3.5	-0.7%	0.5%	-0.4%	c
Southern Africa (M49)	9.7	8.4	7.2	7.6	-1.4%	-3.0%	1.2%	c
Southern Europe (M49)	3.4	3.1	2.9	2.7	-0.8%	-1.5%	-1.8%	c
Western Africa (M49)	8.1	6.2	5.5	5.5	-2.5%	-2.4%	-0.1%	c
Western Europe (M49)	4.1	3.7	3.3	3.0	-0.9%	-2.7%	-2.5%	c
Developing regions (MDG)	6.3	6.0	5.3	5.0	-0.6%	-2.2%	-1.8%	c
Developed regions (MDG)	5.8	4.9	4.3	4.1	-1.7%	-2.5%	-1.6%	c
Northern Africa (MDG)	3.9	4.0	4.1	4.1	0.2%	0.5%	-0.1%	c
Sub-Saharan Africa (MDG)	8.9	7.1	6.3	6.3	-2.3%	-2.1%	-0.3%	c
Eastern Asia (MDG)	9.8	8.4	6.9	6.1	-1.6%	-3.7%	-3.1%	c
Western Asia (MDG)	4.5	5.1	4.6	4.3	1.1%	-1.8%	-1.7%	c
Oceania (MDG)	5.1	5.0	4.8	4.7	-0.1%	-0.8%	-0.6%	c
Caucasus and Central Asia (MDG)	14.9	8.9	6.4	6.7	-5.0%	-6.4%	1.3%	c

REFERENCE

a. Source: Energy Balances, UN Statistics Division (2021)

b. Source: IEA (2021), World Energy Balances; Energy Balances, UN Statistics Division (2021)

DEFINITIONS

Energy intensity: Energy intensity is defined as the energy supplied to the economy per unit value of economic output.

SDG 7.A.1 - INTERNATIONAL FINANCIAL FLOWS TO DEVELOPING COUNTRIES IN SUPPORT OF CLEAN ENERGY

Source: International Renewable Energy Agency, Organisation for Economic Co-operation and Development

COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)				
	2000	2010	2015	2019	2000-19
Afghanistan	0.00	36.00	5.00	5.00	534.00
Algeria	0.00	0.00	1.00	0.00	4.00
Angola	0.00	0.00	0.00	0.00	94.00
Anguilla	0.00	0.00	0.00	0.00	0.00
Antigua and Barbuda	0.00	0.00	7.00	0.00	29.00
Argentina	0.00	1.00	110.00	474.00	4,678.00
Armenia	0.00	92.00	23.00	73.00	448.00
Azerbaijan	5.00	18700	7800	0.00	265.00
Bahamas	0.00	0.00	0.00	1.00	1.00
Bangladesh	3.00	0.00	8.00	137.00	1,635.00
Barbados	0.00	0.00	0.00	34.00	43.00
Belize	0.00	0.00	0.00	0.00	18.00
Benin	0.00	0.00	572.00	0.00	846.00
Bhutan	5.00	23.00	126.00	100	192.00
Bolivia (Plurinational State of)	0.00	5.00	2.00	1.00	2,035.00
Botswana	0.00	10.00	0.00	0.00	13.00
Brazil	126.00	135.00	2.00	51.00	2,127.00
Burkina Faso	0.00	1.00	0.00	46.00	205.00
Burundi	0.00	13.00	2.00	90.00	377.00
Cabo Verde	0.00	69.00	3.00	1.00	129.00
Cambodia	0.00	680.00	8.00	0.00	1,292.00
Cameroon	0.00	54.00	2.00	7.00	1,983.00
Central African Republic	0.00	0.00	1.00	50.00	87.00
Chad	0.00	0.00	0.00	20.00	61.00
Chile	0.00	3.00	113.00	0.00	4,314.00
China	244.00	131.00	92.00	202.00	3,036.00
Colombia	0.00	300	23.00	153.00	2,021.00
Comoros	0.00	0.00	1.00	17.00	29.00

COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)				
	2000	2010	2015	2019	2000-19
Congo	0.00	0.00	0.00	0.00	138.00
Cook Islands	0.00	0.00	18.00	0.00	53.00
Costa Rica	0.00	8.00	596.00	1.00	1,678.00
Côte d'Ivoire	14.00	1.00	1.00	25.00	620.00
Cuba	1.00	4.00	77.00	6.00	241.00
Democratic People's Republic of Korea	0.00	0.00	0.00	1.00	4.00
Democratic Republic of the Congo	0.00	0.00	1.00	0.00	1,459.00
Djibouti	0.00	12.00	1.00	27.00	95.00
Dominica	0.00	0.00	0.00	9.00	33.00
Dominican Republic	11.00	0.00	0.00	43.00	209.00
Ecuador	2.00	2,812.00	32.00	60.00	4,337.00
Egypt	11.00	1,025.00	239.00	340.00	4,406.00
El Salvador	0.00	0.00	151.00	1.00	530.00
Equatorial Guinea	0.00	0.00	0.00	0.00	3.00
Eritrea	0.00	0.00	113.00	0.00	199.00
Eswatini	0.00	0.00	1.00	13.00	14.00
Ethiopia	2.00	92.00	301.00	57.00	2,011.00
Fiji	0.00	0.00	2.00	0.00	19.00
French Polynesia	0.00	0.00	0.00	0.00	0.00
Gabon	0.00	6.00	13.00	0.00	60.00
Gambia	0.00	0.00	0.00	12.00	102.00
Georgia	0.00	8.00	7.00	24.00	588.00
Ghana	4.00	25.00	7.00	3.00	588.00
Grenada	0.00	0.00	2.00	0.00	6.00
Guatemala	0.00	10.00	0.00	57.00	123.00
Guinea	0.00	0.00	1.00	820.00	2,474.00
Guinea-Bissau	0.00	0.00	0.00	0.00	9.00
Guyana	0.00	1.00	3.00	15.00	50.00
Haiti	1.00	2.00	50.00	40.00	185.00



COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)					2000-19
	2000	2010	2015	2019	2010-19	
Honduras	33.00	21.00	391.00	1.00	1,244.00	1,283.00
India	486.00	373.00	899.00	786.00	11,153.00	13,641.00
Indonesia	2.00	46.00	378.00	216.00	4,429.00	5,785.00
Iran (Islamic Republic of)	62.00	0.00	0.00	0.00	4.00	357.00
Iraq	0.00	158.00	0.00	0.00	534.00	637.00
Jamaica	5.00	0.00	88.00	0.00	244.00	259.00
Jordan	0.00	7.00	252.00	74.00	1,712.00	1,727.00
Kazakhstan	0.00	1.00	48.00	280.00	842.00	1,264.00
Kenya	0.00	729.00	546.00	166.00	4,055.00	4,360.00
Kiribati	0.00	1.00	0.00	0.00	11.00	16.00
Kyrgyzstan	8.00	2.00	0.00	86.00	166.00	175.00
Lao People's Democratic Republic	0.00	11.00	82.00	2.00	6,151.00	7,217.00
Lebanon	0.00	2.00	5.00	0.00	41.00	42.00
Lesotho	0.00	0.00	0.00	14.00	27.00	28.00
Liberia	0.00	0.00	253.00	38.00	542.00	543.00
Madagascar	0.00	0.00	5.00	44.00	128.00	158.00
Malawi	7.00	15.00	64.00	102.00	244.00	251.00
Malaysia	141.00	0.00	0.00	0.00	6.00	148.00
Maldives	5.00	10.00	6.00	4.00	68.00	74.00
Mali	4.00	0.00	9.00	45.00	679.00	769.00
Marshall Islands	0.00	0.00	4.00	0.00	48.00	62.00
Mauritania	0.00	0.00	0.00	1.00	340.00	365.00
Mauritius	0.00	2.00	9.00	14.00	167.00	167.00
Mexico	2.00	82.00	226.00	339.00	2,707.00	2,806.00
Micronesia (Federated States of)	0.00	0.00	4.00	27.00	49.00	69.00
Mongolia	5.00	12.00	1.00	11.00	452.00	504.00
Montserrat	0.00	0.00	2.00	0.00	18.00	20.00
Morocco	0.00	8.00	234.00	413.00	4,532.00	5,485.00
Mozambique	0.00	91.00	10.00	188.00	545.00	578.00

COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)				
	2000	2010	2015	2019	2000-19
Myanmar	0.00	0.00	58.00	41.00	33.00
Namibia	0.00	47.00	0.00	0.00	100.00
Nauru	0.00	0.00	9.00	22.00	36.00
Nepal	12.00	23.00	18.00	333.00	1,296.00
New Caledonia	0.00	0.00	0.00	0.00	4.00
Nicaragua	0.00	97.00	67.00	8.00	591.00
Niger	0.00	0.00	0.00	109.00	413.00
Nigeria	0.00	1.00	47.00	1,173.00	7,617.00
Niue	0.00	0.00	0.00	0.00	4.00
Pakistan	0.00	265.00	1,233.00	303.00	8,627.00
Palau	0.00	0.00	5.00	1.00	6.00
Panama	0.00	2.00	65.00	90.00	827.00
Papua New Guinea	0.00	0.00	8.00	0.00	86.00
Paraguay	0.00	0.00	0.00	1.00	132.00
Peru	1.00	91.00	85.00	1.00	1,932.00
Philippines	12.00	81.00	23.00	2.00	449.00
Residual/unallocated ODA: Eastern and South-eastern Asia	3.00	23.00	82.00	57.00	710.00
Residual/unallocated ODA: Latin America and the Caribbean	2.00	10.00	116.00	60.00	1,024.00
Residual/unallocated ODA: Oceania excl. Aus. and N. Zealand	0.00	1.00	2.00	22.00	36.00
Residual/unallocated ODA: Sub-Saharan Africa	10.00	30.00	153.00	680.00	2,596.00
Residual/unallocated ODA: Western Asia and Northern Africa	0.00	1.00	34.00	4.00	300.00
Réunion	0.00	0.00	2.00	0.00	47.00
Rwanda	0.00	2.00	0.00	2.00	295.00
Saint Helena	0.00	0.00	1.00	0.00	1.00
Saint Kitts and Nevis	0.00	0.00	0.00	0.00	18.00
Saint Lucia	0.00	0.00	0.00	0.00	11.00
Saint Vincent and the Grenadines	0.00	0.00	0.00	0.00	35.00

COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)					2000-19
	2000	2010	2015	2019	2010-19	
Samoa	0.00	0.00	0.00	0.00	39.00	39.00
Sao Tome and Principe	0.00	0.00	0.00	0.00	6.00	9.00
Senegal	0.00	1.00	32.00	69.00	543.00	683.00
Seychelles	0.00	0.00	0.00	0.00	2.00	2.00
Sierra Leone	0.00	9.00	0.00	0.00	48.00	160.00
Solomon Islands	0.00	0.00	7.00	46.00	258.00	258.00
Somalia	0.00	0.00	0.00	21.00	29.00	29.00
South Africa	700	26100	726.00	164.00	3052.00	3109.00
South Sudan	0.00	0.00	0.00	0.00	32.00	32.00
Sri Lanka	1.00	45.00	0.00	0.00	873.00	1,342.00
State of Palestine	0.00	1.00	23.00	19.00	98.00	104.00
Sudan	0.00	85.00	0.00	207.00	327.00	1,645.00
Suriname	0.00	0.00	0.00	23.00	27.00	27.00
Syrian Arab Republic	0.00	5.00	0.00	0.00	5.00	5.00
Tajikistan	0.00	7.00	0.00	54.00	535.00	636.00
Thailand	0.00	4.00	56.00	99.00	924.00	953.00
Timor-Leste	0.00	5.00	0.00	0.00	9.00	17.00
Togo	0.00	0.00	5.00	1.00	33.00	33.00
Tokelau	0.00	0.00	0.00	4.00	9.00	9.00
Tonga	0.00	6.00	14.00	2.00	123.00	124.00
Tunisia	4.00	131.00	9.00	80.00	479.00	897.00
Turkey	131.00	271.00	389.00	360.00	6,028.00	6,851.00
Turkmenistan	0.00	0.00	0.00	0.00	6.00	6.00
Tuvalu	0.00	1.00	9.00	6.00	43.00	43.00
Uganda	27.00	29.00	521.00	66.00	2,992.00	3,695.00
United Republic of Tanzania	0.00	9.00	37.00	6.00	477.00	568.00
Unspecified, developing countries	20.00	832.00	217.00	587.00	4,522.00	4,862.00
Uruguay	0.00	1.00	518.00	0.00	1,393.00	1,426.00
Uzbekistan	0.00	0.00	0.00	66.00	502.00	528.00
Vanuatu	0.00	1.00	7.00	0.00	44.00	57.00

COUNTRY	INTERNATIONAL COMMITMENTS (2019 USD MILLIONS)				
	2000	2010	2015	2019	2000-19
Venezuela (Bolivarian Republic of)	1,00	1,273.00	0.00	0.00	1,630.00
Viet Nam	0.00	94.00	6.00	251.00	1,391.00
Yemen	1.00	0.00	0.00	1.00	156.00
Zambia	0.00	397.00	1,791.00	79.00	2,912.00
Zimbabwe	0.00	0.00	0.00	0.00	344.00
World	1,424.77	11,171.15	12,660.84	10,887.33	145,288.08
Sub-Saharan Africa	75.15	1,904.20	5,228.11	3,983.93	39,641.10
Central Asia and Southern Asia	585.92	800.71	2,397.01	2,091.87	27,009.14
Eastern Asia and South-eastern Asia	404.59	1,072.22	704.16	845.34	20,143.91
Latin America and the Caribbean	186.72	4,562.89	2,727.81	1,465.99	34,492.97
Western Asia and Northern Africa	152.72	1,990.12	1,297.71	1,780.99	18,609.04
Oceania excluding Australia and New Zealand	0.00	9.10	89.08	131.76	869.94
Unspecified developing countries	19.68	831.92	216.97	587.45	4,522.01
Least Developed Countries (LDCs)	61.59	1,543.26	4,090.65	2,742.12	30,752.76
Landlocked developing countries (LLDCs)	74.31	961.57	3,075.23	1,603.44	24,263.76
Small Island Developing States (SIDS)	22.69	102.48	335.92	311.77	2,412.79

SDG7.B.1 - INSTALLED RENEWABLE ELECTRICITY-GENERATING CAPACITY (WATTS PER CAPITA)

Source: International Renewable Energy Agency

COUNTRY	WATTS PER CAPITA			2020
	2000	2010	2015	
Afghanistan	9,216	8,273	8,794	9,348
Algeria	8.91	7,021	7,851	15,644
American Samoa	0	0	43,293	91.78
Angola	14,369	34,024	37,047	115,427
Anguilla	0	0	79,908	100,72
Antigua and Barbuda	0	1,136	36,336	167,981
Argentina	235,622	239,961	247,367	311,281
Armenia	333,659	391,733	440,702	484,04
Aruba	0	296,07	365,156	356,855
Azerbaijan	113,508	110,413	119,909	127,353
Bahamas	0	0.845	3,466	5,678
Bahrain	0	0.551	4,147	6,133
Bangladesh	1,802	1.8	2,447	3,125
Barbados	0	3,544	31,543	174,061
Belize	125,47	196,874	239,357	258,714
Benin	0.073	0.054	0.161	0.284
Bhutan	582,643	217,126	2218,72	3026,404
Bolivia (Plurinational State of)	45,245	58,163	58,658	90,526
Bonaire, Sint Eustatius and Saba	0	530,061	463,962	674,65
Botswana	0	0.07	1,015	2,614
Brazil	364,678	457,596	550,887	705,901
British Virgin Islands	0	20,507	23,844	22,985
Brunei Darussalam	0	3,088	2,892	3,198
Burkina Faso	2.8	2,281	2,258	4,678
Burundi	8,505	6,323	5,694	4,826
Cabo Verde	0	14,818	63,494	63,636
Cambodia	0.83	1,506	6279	95,027
Cameroon	46,365	35,607	31,758	29,821

COUNTRY	WATTS PER CAPITA				2020
	2000	2010	2015	2020	
Cayman Islands	0	0	0	0	193,807
Central African Republic	5,178	4,32	4,262	3,968	
Chad	0.239	0.168	0.154	0.203	
Chile	290,177	360,953	470,343	669,287	
China	58,775	170,408	340,551	621,736	
Colombia	210,84	208,967	247,424	266,328	
Comoros	0	2,099	1,863	1,665	
Congo	27,563	20,17	42,557	41,05	
Cook Islands	2,565	4,676	181,105	413,915	
Costa Rica	359,695	429,941	486,679	613,335	
Côte d'Ivoire	36,709	29,492	26,223	33,821	
Cuba	5,199	55,074	55,516	105,789	
Curaçao	22,702	53,624	250,86	346,74	
Democratic People's Republic of Korea	200,27	161,277	178,289	187,455	
Democratic Republic of the Congo	52,858	38,941	33,166	30,957	
Djibouti	0	0	0,328	0,366	
Dominica	110,266	99,045	98,771	98,832	
Dominican Republic	53,732	55,594	72,481	120,716	
Ecuador	135,21	156,293	160,288	300,293	
Egypt	42,526	41,529	39,668	58,35	
El Salvador	97,819	132,59	146,123	232,163	
Equatorial Guinea	9,238	5,934	107,481	90,675	
Eritrea	0	0,261	2,598	6,495	
Eswatini	103,239	116,653	153,011	145,695	
Ethiopia	6,125	21,699	25,972	40,994	
Falkland Islands (Malvinas)	89,872	799,449	842,736	686,19	
Fiji	133,849	170,557	222,017	236,376	
French Guiana	702,292	598,16	640,567	598,392	
French Polynesia	199,758	189,747	276,649	316,4	
Gabon	138,559	105,656	170,869	149,563	

COUNTRY	WATTS PER CAPITA			2020
	2000	2010	2015	
Gambia	0	1,075	1,075	1,404
Georgia	587,032	659,272	714,921	962,414
Ghana	61,506	47,893	58,305	54,279
Grenada	0	2,438	10,064	29,808
Guadeloupe	114,442	246,458	369,96	474,147
Guam	0	0,564	197,404	207,693
Guatemala	62,267	89,608	134,028	160,214
Guinea	15,559	12,639	33,374	29,056
Guinea-Bissau	0	0	0,18	0,594
Guyana	29,397	70,943	71,975	67,598
Haiti	6,65	5,712	5,438	7,063
Honduras	66,666	76,052	149,977	187,32
India	23,661	42,34	59,899	97,287
Indonesia	25,887	28,35	33,184	38,585
Iran (Islamic Republic of)	30,629	116,428	145,892	154,077
Iraq	28,514	76,469	64,962	61,903
Jamaica	20,805	33,742	37,194	85,652
Jordan	2,811	2,327	16,526	186,503
Kazakhstan	151,447	140,017	164,65	266,151
Kenya	24,065	24,735	32,944	40,743
Kiribati	0,735	3,808	20,815	23,961
Kuwait	0	0	1,455	24,761
Kyrgyzstan	598,165	565,111	616,953	563,61
Lao People's Democratic Republic	120,526	408,184	652,44	1022,179
Lebanon	73,384	57,001	45,676	50,348
Lesotho	37,101	36,456	36,48	35,063
Liberia	1,404	1,029	0,907	18,701
Libya	0	0,597	0,763	0,744
Madagascar	6,71	6,18	7,143	7,122
Malawi	26,903	20,631	22,417	21,429

COUNTRY	WATTS PER CAPITA				2020
	2000	2010	2015		
Malaysia	119,039	99,149	249,445	268,759	
Maldives	0	4,533	12,198	31,097	
Mali	7,746	19,366	21,359	20,979	
Marshall Islands	0.788	5,678	17,565	27,469	
Martinique	0	74,747	183,099	342,233	
Mauritania	0	0	12,991	26,219	
Mauritius	111,328	116,262	141,212	198,157	
Mayotte	0	39,978	55,139	55,518	
Mexico	109,889	118,456	141,935	219,941	
Micronesia (Federated States of)	3,648	0.871	2.23	5,183	
Mongolia	6,267	12,6	28,227	84,366	
Montserrat	0	0	0	50,01	
Morocco	42,625	48,266	66,555	93,522	
Mozambique	124,088	93,399	81,747	73,99	
Myanmar	7,365	44,592	62,017	63,364	
Namibia	134,276	115,476	151,815	197,346	
Nauru	0	3,996	20,243	179,712	
Nepal	11,762	25,979	30,614	46,785	
New Caledonia	367,987	467,307	453,358	697,356	
Nicaragua	30,184	64,835	98,563	110,41	
Niger	0.044	0,128	0.35	1,117	
Nigeria	17,052	13,163	11,797	10,443	
Niue	0	33,909	211,801	581,582	
Oman	0	0	0,516	31,084	
Other non-specified areas in Eastern Asia	94,924	124,461	170,432	384,538	
Pakistan	36,362	39,08	40,738	56,165	
Palau	0,209	16,264	51,514	96,451	
Panama	206,017	262,84	517,331	532,131	
Papua New Guinea	36,366	41,206	41,07	37,263	
Paraguay	1388,262	1410,114	1323,039	1238,302	

COUNTRY	WATTS PER CAPITA			2020
	2000	2010	2015	
Peru	109,353	121,126	154,285	201,089
Philippines	48,528	51,189	55,085	62,393
Puerto Rico	27,201	43,102	93,568	126,713
Qatar	0	0	16,357	14,96
Republic of Korea	34,055	56,887	141,996	409,567
Réunion	194,92	338,986	440,524	478,539
Rwanda	518	5,049	9,598	10,918
Saint Barthélemy	0	0	0	2,428
Saint Kitts and Nevis	0	44,888	71,088	77,831
Saint Lucia	0	0,115	4,243	20,885
Saint Martin (French Part)	0	0	72,494	12,934
Saint Vincent and the Grenadines	52,325	52,097	58,551	67,69
Samoa	86,04	67,354	73,402	141,797
Sao Tome and Principe	16,308	12,862	12,229	12,11
Saudi Arabia	0,017	0,086	0,765	11,853
Senegal	1,051	2,231	2,332	14,692
Seychelles	0	0	78,058	99,532
Sierra Leone	0,872	8,432	12,614	12,418
Singapore	37,951	25,608	44,906	93,639
Solomon Islands	0,754	1,311	3,439	5,285
Somalia	0	0	0,215	1,641
South Africa	27,762	19,384	61,906	16,25
South Sudan	0	0	0,015	0,058
Sri Lanka	61,588	71,139	89,825	109,828
State of Palestine	0	0	2,649	22,969
Sudan	14,951	48,935	46,355	48,436
Suriname	382,211	340,475	336,045	325,777
Syrian Arab Republic	93,518	40,131	87,752	85,698
Tajikistan	653,279	637,947	595,345	552,879

COUNTRY	WATTS PER CAPITA			2020
	2000	2010	2015	
Thailand	56,768	71,569	115,961	171,795
Timor-Leste	0	0.422	0.853	0.808
Togo	13,687	10,39	9,327	8,718
Tokelau	13,548	18,601	762,63	782,222
Tonga	0.582	1,154	28,577	73,332
Trinidad and Tobago	4,215	2,132	2,611	2,151
Tunisia	7,569	11,048	29,834	33,92
Turkey	178,496	240,141	401,327	585,705
Turkmenistan	0.266	0.236	0.216	0.199
Turks and Caicos Islands	0	0	0.834	24,278
Tuvalu	0.639	19,865	185,963	196,065
Uganda	11,002	14,287	20,444	25,887
United Arab Emirates	0	1,266	14,706	256,84
United Republic of Tanzania	18,209	13,896	12,808	11,433
United States Virgin Islands	0	0	88,175	48,773
Uruguay	466,799	540,145	827,759	1075,169
Uzbekistan	64,433	62,874	60,833	60,018
Vanuatu	3,244	18,225	29,447	37,841
Venezuela (Bolivarian Republic of)	546,286	514,263	505,74	583,691
Viet Nam	42,534	100,185	174,883	366,237
Yemen	0	0,043	2,264	8,476
Zambia	173,029	142,247	145,548	138,231
Zimbabwe	61,423	65,791	63,536	80,606
Zimbabwe	61,423	65,791	63,536	81,536

COUNTRY	WATTS PER CAPITA			
	2000	2010	2015	2020
World	64.501	101.972	155.847	245.667
Sub-Saharan Africa	26.823	24.173	27.980	37.634
Central Asia and Southern Asia	29.930	47.278	61.460	90.588
Eastern Asia and South-eastern Asia	54.601	133.608	256.437	459.701
Latin America and the Caribbean	245.944	284.719	333.124	424.570
Western Asia and Northern Africa	66.562	76.692	105.739	152.265
Oceania excluding Australia and New Zealand	52.024	59.024	67.834	73.834
Least Developed Countries (LDCs)	17.413	25.045	29.466	37.884
Landlocked developing countries (LLDCs)	79.228	83.378	86.521	97.559
Small Island Developing States (SIDS)	30.747	43.429	53.774	79.937