



TRACKING SDG7 THE ENERGY PROGRESS REPORT 2021

A joint report of the custodian agencies



© 2021 International Bank for Reconstruction and Development / The World Bank 1818 H Street NW
Washington DC 20433
Telephone: 202-473 1000
Internet: www.worldbank.org

This work is a product of the staff of the five collaborating organizations, namely The World Bank, the International Energy Agency, the International Renewable Energy Agency, the United Nations, and the World Health Organization, with external contributions. The findings, interpretations, and conclusions expressed in this work do not necessarily reflect the views of these organizations, their governing bodies, members, or the governments they represent.

The collaborating organizations do not guarantee the accuracy, completeness, or currency of the data included in this work and does not assume responsibility for any errors, omissions, or discrepancies in the information, or liability with respect to the use of or failure to use the information, methods, processes, or conclusions set forth. The boundaries, colors, denominations, and other information shown on any map in this work do not imply any judgment on the part of the custodian agencies concerning the legal status of or sovereignty over any territory or the endorsement or acceptance of such boundaries.

Nothing herein shall constitute or be construed or considered to be a limitation upon or waiver of the privileges and immunities of the collaborating organizations, all of which are specifically reserved.



Rights and Permissions

This work is available under the Creative Commons Attribution--NonCommercial 3.0 IGO license (CC BY-NC 3.0 IGO) <https://creativecommons.org/licenses/by-nc/3.0/igo/>. Under the Creative Commons--NonCommercial license, you are free to copy, distribute, and adapt this work, for noncommercial purposes only, under the following conditions:

Attribution—Please cite the work as follows: IEA, IRENA, UNSD, World Bank, WHO. 2021. Tracking SDG 7: The Energy Progress Report. World Bank, Washington DC. © World Bank. License: Creative Commons Attribution—NonCommercial 3.0 IGO (CC BY-NC 3.0 IGO).

Noncommercial—You may not use this work for commercial purposes.

Translations—If you create a translation of this work, please add the following disclaimer along with the attribution: *This is an unofficial translation of the work from the English language. The translation was not created by IEA, IRENA, UNSD, World Bank or WHO shall not be liable for any content or error in this translation.*

Adaptations—If you create an adaptation of this work, please add the following disclaimer along with the attribution: This is an adaptation of an original work by IEA, IRENA, UNSD, World Bank and WHO. Views and opinions expressed in the adaptation are the sole responsibility of the author or authors of the adaptation and are not endorsed by IEA, IRENA, UNSD, World Bank and WHO.

Third-party content—The World Bank does not necessarily own each component of the content contained within the work. The World Bank therefore does not warrant that the use of any third party-owned individual component or part contained in the work will not infringe on the rights of those third parties. The risk of claims resulting from such infringement rests solely with you. If you wish to re-use a component of the work, it is your responsibility to determine whether permission is needed for that re-use and to obtain permission from the copyright owner. Examples of components can include, but are not limited to, chapters, tables, figures, or images.

Any queries on rights and licenses, including subsidiary rights, except as indicated below, should be addressed to World Bank Publications, The World Bank Group, 1818 H Street NW, Washington, DC 20433, USA; fax: 202-522-2625; e-mail: pubrights@worldbank.org.

Use of the following chapters in the report other than as permitted under the CC BY-NC 3.0 IGO license requires permission from each of the relevant copyright owners other than the World Bank:

Executive Summary - © IEA, IRENA, UN, World Bank and WHO, 2021. Contact pubrights@worldbank.org for permission to use it.

Access to electricity - © World Bank, 2021. Contact pubrights@worldbank.org for permission to use it.

Access to clean fuels and technologies for cooking - © WHO, 2021. Contact permissions@who.int for permission to use it.

Renewable Energy - © IEA, IRENA and UN, 2021. Contact publications@irena.org; Rights@iea.org and permissions@un.org for permission to use it.

Energy Efficiency - © IEA and UN, 2021. Contact Rights@iea.org and permissions@un.org for permission to use it.

International Public Financial Flows - © IRENA, 2021. Contact publications@irena.org for permission to use it.

Outlook for SDG 7 - © IEA and IRENA, 2021. Contact publications@irena.org and Rights@iea.org for permission to use it.

Tracking SDG7 progress across targets: indicators and data. ©IEA, IRENA, UN, World Bank and WHO. Contact pubrights@worldbank.org for permission to use it.

Report designed by: Duina Reyes

Cover photo: © Shutterstock/Jenson/Engineers inspecting photovoltaic area

TRACKING **SDG7** THE ENERGY PROGRESS REPORT **2021**

A joint report of the custodian agencies



PARTNERS

The Energy Progress Report is a product of close collaboration among the five SDG 7 custodian agencies in the form of a specially constituted Steering Group:

- International Energy Agency (IEA)
- International Renewable Energy Agency (IRENA)
- United Nations Statistics Division (UNSD)
- World Bank
- World Health Organization (WHO)

The Steering Group was supported by the SDG 7 Technical Advisory Group composed as follows.

- African Development Bank (AfDB)
- Clean Cooking Alliance
- Denmark (Ministry of Foreign Affairs)
- ENERGIA
- European Commission
- FIA Foundation
- Food and Agricultural Organization (FAO)
- Germany (Federal Ministry for Economic Cooperation and Development)
- Hivos
- International Institute for Applied Systems Analysis
- International Labour Organization (ILO)
- Islamic Development Bank
- Kenya (Ministry of Energy and Petroleum)
- Latin American Energy Organization (OLADE)
- Norway (Ministry of Foreign Affairs)
- Pakistan (Ministry of Foreign Affairs)
- Renewable Energy Policy Network for the 21st Century (REN 21)
- Sustainable Energy for All (SEforAll)
- TERI School of Advanced Studies
- The Netherlands (Ministry of Foreign Affairs)
- The United Nations Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries, and Small Island Developing States (UN-OHRLLS)
- UAE (Ministry of Foreign Affairs)
- United Nations Association of China
- United Nations Children's Fund (UNICEF)
- United Nations Department of Economics and Social Affairs (UN DESA)
- United Nations Development Programme (UNDP)
- United Nations Economic Commission for Africa (UNECA)
- United Nations Economic Commission for Asia and the Pacific (ESCAP)
- United Nations Economic Commission for Latin America and the Caribbean (ECLAC)
- United Nations Economic Commission for Western Asia (ESCWA)
- United Nations Economic Programme for Europe (UNECE)
- United Nations Environment Programme (UNEP)
- United Nations Framework Convention on Climate Change (UNFCCC)
- United Nations Human Settlements Programme (UN-Habitat)
- United Nations Industrial Development Organization (UNIDO)
- United Nations Institute for Training and Research (UNITAR)
- Vienna University of Technology

The Steering Group's work on the 2021 edition of the Energy Progress Report was chaired by UNSD and facilitated by the member agencies. Fatih Birol (IEA), Francesco La Camera (IRENA), Stefan Schweinfest (UNSD), Demetrios Papathanasiou (World Bank), and Maria Neira (WHO) with Rohit Khanna (ESMAP) oversaw the development of the report in collaboration with Minoru Takada (UNDESA).

Technical direction of the project within the member agencies was the responsibility of Laura Cozzi (IEA), Rabia Ferroukhi (IRENA), Leonardo Souza (UNSD), Elisa Portale (World Bank), and Heather Adair-Rohani (WHO).

Financial support from ESMAP is gratefully acknowledged.

CONTENTS

Executive Summary	vi
Acknowledgments	17
 CHAPTER 1: Access to Electricity	20
 CHAPTER 2: Access to Clean Fuels and Technologies for Cooking	52
 CHAPTER 3: Renewable Energy	80
 CHAPTER 4: Energy Efficiency	106
 CHAPTER 5: International Public Financial Flows to Developing Countries in Support of Clean Energy	128
 CHAPTER 6: The Outlook for SDG 7	156
 CHAPTER 7: Tracking SDG 7 Progress Across Targets: Indicators and Data	178