

RENEWABLES 2022

GLOBAL STATUS REPORT



2022

REN21 MEMBERS

INDUSTRY ASSOCIATIONS

Africa Minigrids Developers Association (AMDA)
 Alliance for Rural Electrification (ARE)
 American Council on Renewable Energy (ACORE)
 Associação Lusófona de Energias Renováveis (ALER)
 Associação Portuguesa de Energias Renováveis (APREN)
 Chinese Renewable Energy Industries Association (CREIA)
 Clean Energy Council (CEC)
 Euroheat & Power (EHP)
 European Heat Pump Association (EHPA)
 European Renewable Energies Federation (EREF)
 Global Off-Grid Lighting Association (GOGLA)
 Global Solar Council (GSC)
 Global Wind Energy Council (GWEC)
 Indian Renewable Energy Federation (IREF)
 International Geothermal Association (IGA)
 International Hydropower Association (IHA)
 RE100 / Climate Group
 RES4Africa Foundation
 SolarPower Europe (SPE)
 Union Internationale de Transport Publique (UITP)
 World Bioenergy Association (WBA)
 World Wind Energy Association (WWEA)

INTER-GOVERNMENTAL ORGANISATIONS

Asia Pacific Energy Research Center (APERC)
 Asian Development Bank (ADB)
 ECOWAS Centre for Renewable Energy and Energy Efficiency (ECREEE)
 Electric Power Council of the Commonwealth of Independent States (EPC)
 European Commission (EC)
 Global Environment Facility (GEF)
 International Energy Agency (IEA)
 International Renewable Energy Agency (IRENA)
 Islamic Development Bank (IsDB)
 Organización Latinoamericana de Energía (OLADE)
 Regional Center for Renewable Energy and Energy Efficiency (RCREEE)
 United Nations Development Programme (UNDP)
 United Nations Environment Programme (UNEP)
 United Nations Industrial Development Organization (UNIDO)
 World Bank (WB)

NGOS

Association Africaine pour l'Electrification Rurale (Club-ER)
 CDP
 CLASP
 Clean Cooking Alliance (CCA)
 Climate Action Network International (CAN-I)
 Coalition de Ciudades Capitales de las Americas (CC35)
 Energy Cities
 Fundación Energías Renovables (FER)
 Global 100% Renewable Energy Platform (Global 100%RE)
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 Global Women's Network for the Energy Transition (GWNET)
 Greenpeace International
 ICLEI – Local Governments for Sustainability
 Institute for Sustainable Energy Policies (ISEP)
 International Electrotechnical Commission (IEC)
 Jeune Volontaires pour l'Environnement (JVE)
 Mali Folkecenter (MFC)
 Power for All
 Renewable Energy and Energy Efficiency Partnership (REEEP)
 Renewable Energy Institute (REI)
 Renewables Grid Initiative (RGI)
 SLOCAT Partnership on Sustainable, Low Carbon Transport
 Solar Cookers International (SCI)
 Sustainable Energy for All (SEforALL)
 World Council for Renewable Energy (WCRE)
 World Future Council (WFC)
 World Wide Fund for Nature (WWF)

SCIENCE AND ACADEMIA

AEE – Institute for Sustainable Technologies (AEE-INTEC)
 Council on Energy, Environment and Water (CEEW)
 Fundación Bariloche (FB)
 International Institute for Applied Systems Analysis (IIASA)
 International Solar Energy Society (ISES)
 National Renewable Energy Laboratory (NREL)
 National Research University Higher School of Economics Russia (HSE)
 South African National Energy Development Institute (SANEDI)
 The Energy and Resources Institute (TERI)
 University of Technology Sydney – Institute for Sustainable Futures (UTS-ISF)
 World Resources Institute (WRI)

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REN21 CROWD-SOURCED KNOWLEDGE AND DATA

The REN21 community is at the heart of REN21's data and reporting culture. Collectively, hundreds of experts make REN21 reports among the world's most comprehensive crowd-sourced and peer-reviewed publications on renewables. This unique reporting and verification process makes REN21 a globally recognised data and knowledge broker.

REN21 reports that carry the *REN21 Crowd-Sourced Knowledge and Data* stamp verify that this collaborative process was applied:



Developing **data collection** methods that build on a global multi-stakeholder community of experts from diverse sectors, enabling access to dispersed data and information that frequently are not consolidated and are difficult to collect.

Consolidating **formal** (official) and **informal** (unofficial/unconventional) data gathered from a wide range of sources in a collaborative and transparent way e.g., by using extensive referencing.

Complementing and validating data and information in an open **peer-review** process.

Obtaining expert input on renewable energy trends through **interviews** and personal communication between the REN21 team and authors.

Using validated data and information to provide fact-based evidence and to develop a supportive narrative to **shape the sectoral, regional or global debate** on the energy transition, monitor advancements and inform decision processes.

Making data and information **openly available** and clearly documenting our sources so they can be used by people in their work to advocate for renewable energy.

Using crowd-sourced data to develop a **shared language** and create an understanding as the foundation for collaboration.



Over **650 experts** contributed to GSR 2022, working alongside an international authoring team and the REN21 Secretariat.



More than **2,000 sources** have been used to write GSR 2022.

For more information, see the Methodological Notes section on data collection and validation.





RENEWABLE ENERGY POLICY NETWORK FOR THE 21st CENTURY

REN21 is the only global community of actors from science, governments, NGOs and industry **working collectively** to drive the rapid uptake of renewables – now!



REN21 works to build knowledge, shape dialogue and debate and communicate these results to **inform decision-makers** to strategically drive the deep transformations needed to make renewables the norm. We do this in close cooperation with the community, providing a platform for these stakeholders to engage and collaborate. REN21 also connects with non-energy players to grow the energy discourse, given the economic and social significance of energy.



The most successful organisms, such as an octopus, have a **decentralised intelligence** and "sensing" function. This increases responsiveness to a changing environment. REN21 incarnates this approach.



Our more than **3,000 community members** guide our co-operative work. They reflect the vast array of backgrounds and perspectives in society. As REN21's eyes and ears, they collect information, share intelligence and make the renewable voice heard.

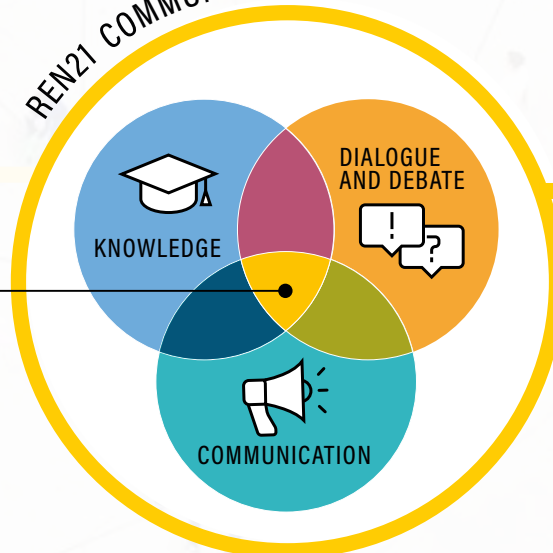


REN21 takes all this information to better understand the current thinking around renewables and change norms. **Our publications** are probably the world's most comprehensive crowdsourced reports on renewables. Each is a truly collaborative process of co-authoring, data collection and peer reviewing.

REN21 COMMUNITY



THE SWEET SPOT FOR
CHANGING NORMS



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Reference Tables can be accessed through the GSR2022 Data Pack at <http://www.ren21.net/gsr2022-data-pack>.

Endnotes: see full version online at www.ren21.net/gsr

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Comments and questions are welcome and can be sent to gsr@ren21.net