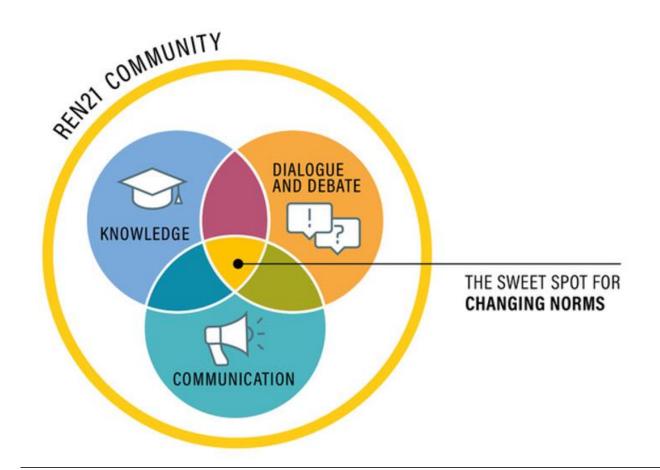




OUR APPROACH TO DRIVE CHANGE



Position knowledge strategically, build on the REN21 community and their roles, engage with usual and unusual suspects to change norms.



THE ANNUAL GSR COLLECTION

COVERING ALL BUILDING BLOCKS OF THE RENEWABLE ENERGY SYSTEM



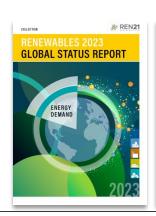
Renewables for Economic and Social Value Creation

- Employment & Equity
- Local Supply Chains
- Access to Electricity & Clean Cooking

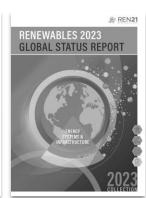


GSR 2023 Global Overview

- Renewable Energy Share in TFEC
- Economy-wide Policies
- Energy System Investment







3



WHAT CHANGED IN 2022?





Energy Crisis was further exacerbated by Russian Federation invasion of Ukraine in February 2022

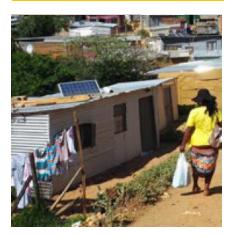
Energy prices
reached their
highest levels since
2008, impacting all
energy-consuming
sectors

Starting in October 2021, rapid economic rebound following COVID-19 led to tighter energy markets





High inflation became a global phenomenon during 2022



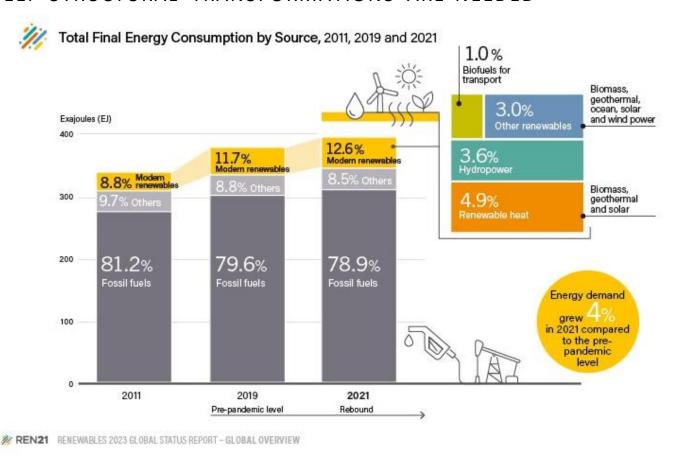


GSR 2023 GLOBAL OVERVIEW



THE ENERGY TRANSITION IS NOT HAPPENING

DEEP STRUCTURAL TRANSFORMATIONS ARE NEEDED

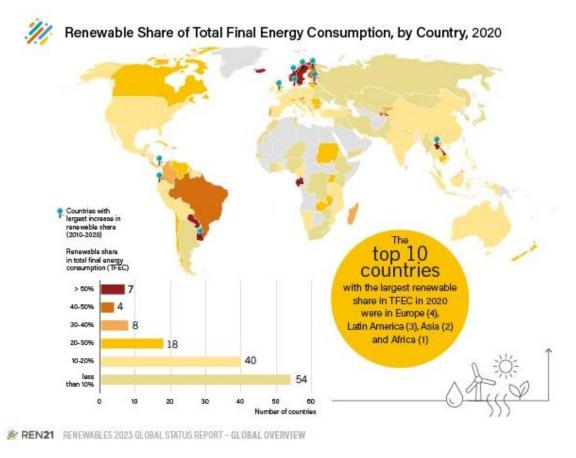


2022 was another year of record renewable deployment; however, shift is **highly concentrated** across geographies, technologies, and fuels.



UNEVEN DEPLOYMENT OF RENEWABLE ENERGY

THE TRANSITION REQUIRES EQUITY AND ENERGY ACCESS

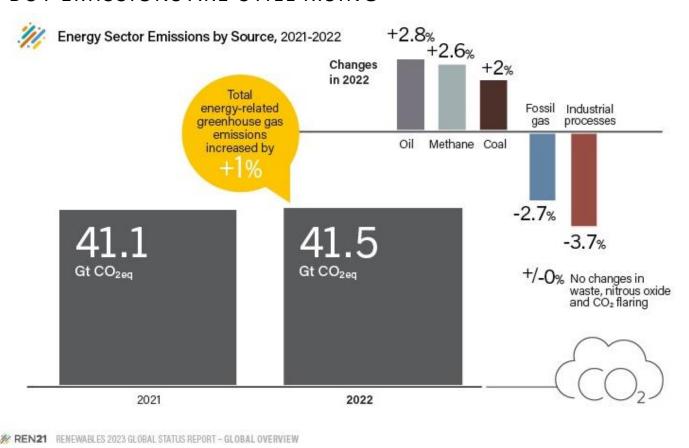


Only 7 countries have a renewable energy share in total final energy consumption above 50%.



RECORD GROWTH IN RENEWABLES

BUT EMISSIONS ARE STILL RISING



Despite **record growth** in renewables, energy sector **emissions rose** 1% in 2022

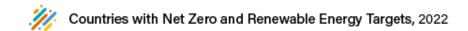


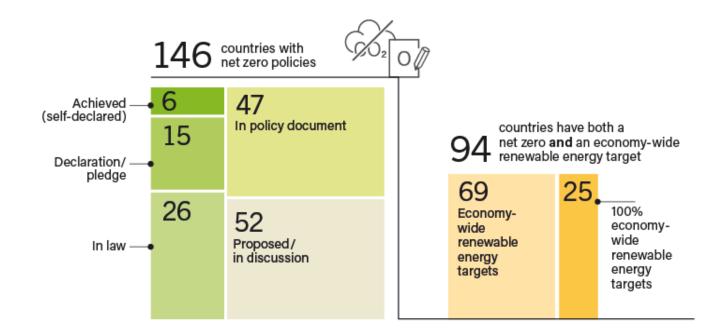
RENEWABLE ENERGY POLICIES



NET ZERO AMBITION INCREASING

BUT SHOWING DISCONNECT WITH THE ENERGY TRANSITION





146 countries now have a net zero policy, though the majority are not backed by legislation.

REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - GLOBAL OVERVIEW



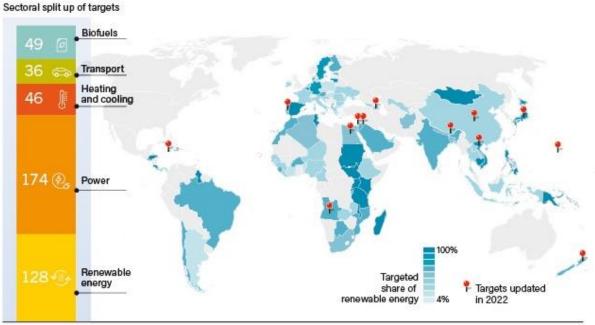
RENEWABLE ENERGY TARGETS

REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - GLOBAL OVERVIEW

NEW ECONOMY-WIDE AND TECHNOLOGY-SPECIFIC TARGETS

111

Countries with Economy-wide Renewable Energy Targets, by Sector and Targeted Share, 2022



433 targets in 128 countries Only **31 countries** have a 100% renewable energy target.

Over **65%** of countries

have an economy-wide renewable energy

target. (+13 countries in

2021)

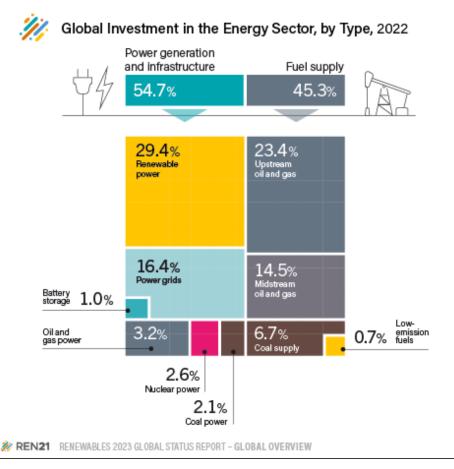


UNLOCKING INVESTMENT



INVESTMENT IN THE ENERGY SYSTEM

SOLAR PV DRIVING INVESTMENT GROWTH, BUT FOSSIL FUELS STILL DOMINATE

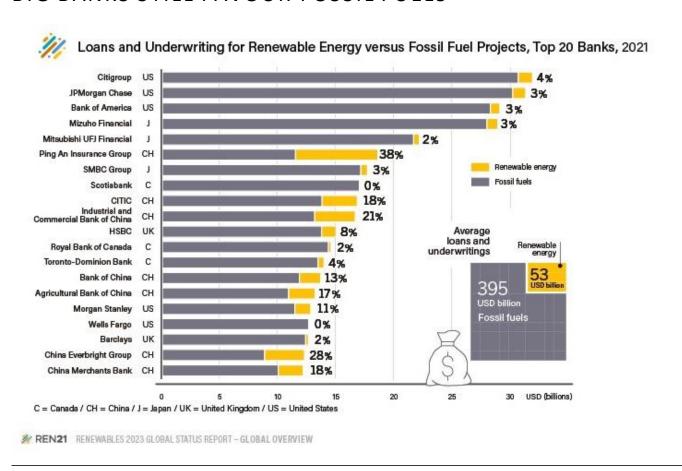


Renewable energy accounted for less than one-third of the global investment across the power and fuel supply and infrastructure.



INVESTMENT IN THE ENERGY SYSTEM

BIG BANKS STILL FAVOUR FOSSIL FUELS



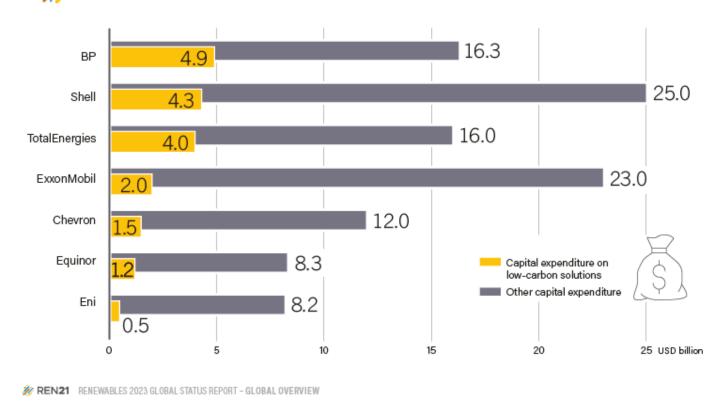
More than 78% of banks' loans and underwriting of energy finance is for fossil fuel projects.



INVESTMENT IN THE ENERGY SYSTEM

FOSSIL FUEL COMPANIES NOT TRANSITIONING DESPITE RHETORIC

Share of Total Capital Investment of Fossil Fuel Companies Dedicated to Low-Carbon Solutions, 2022



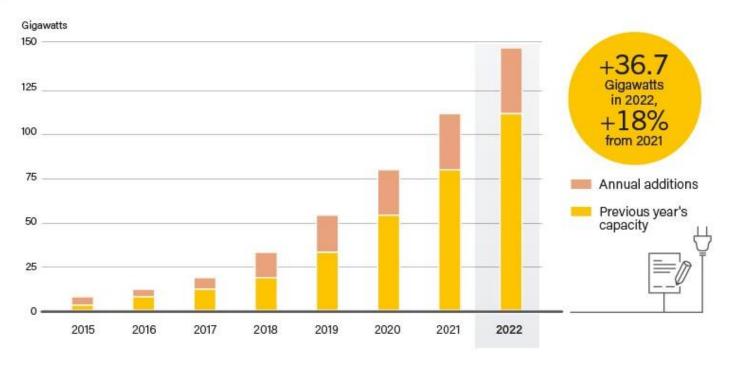
Fossil fuel companies are only investing a small fraction of their capital into renewable energy projects.



RECORD GROWTH IN CORPORATE PPAS

SUPPORTING RENEWABLES, SHIELDING BUSINESS FROM VOLATILE FOSSIL FUEL PRICES

Corporate Renewable Energy PPAs, Global Capacity and Annual Additions, 2015-2022



Growth in corporate PPAs can be attributed to companies opting to protect their revenues from high and volatile fossil fuel prices.

REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - GLOBAL OVERVIEW



ECONOMIC AND SOCIAL VALUE CREATION



THE BENEFITS OF RENEWABLES



ECONOMIC & SOCIAL VALUE CREATION

RENEWABLES DELIVER MULTIPLE BENEFITS

Renewable energy fuels economic activities

Local value chains can be built around renewable energy everywhere Replacing fossil fuels reduces air and water pollution, providing considerable health benefits







Electricity access is improved by a decentralised renewable energy supply



In 2021, employment in renewable energy reached a record high of 12.7 million jobs

By creating new opportunities for women, renewables can reduce gender inequality

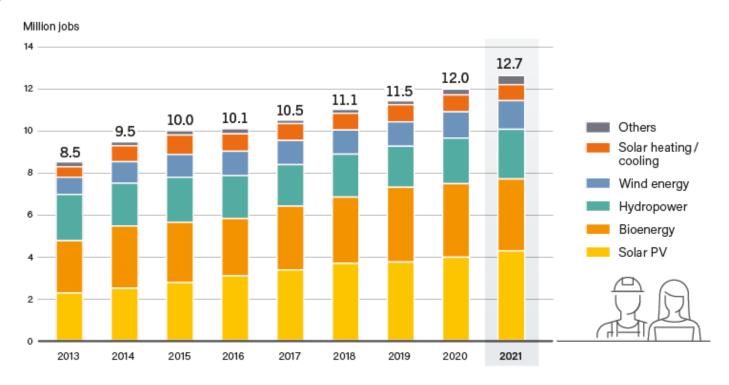


BUILDING A WORKFORCE FOR THE ENERGY TRANSITION

MODERN RENEWABLES CREATE JOBS

111

Global Renewable Energy Employment, by Technology, 2013-2021



Large opportunities to create jobs, challenge to build workforce

US: **5M** (clean energy)

EU: **3.5M** by 2030 India: **3.4M** by 2030 SEA: **1.3M** by 2025

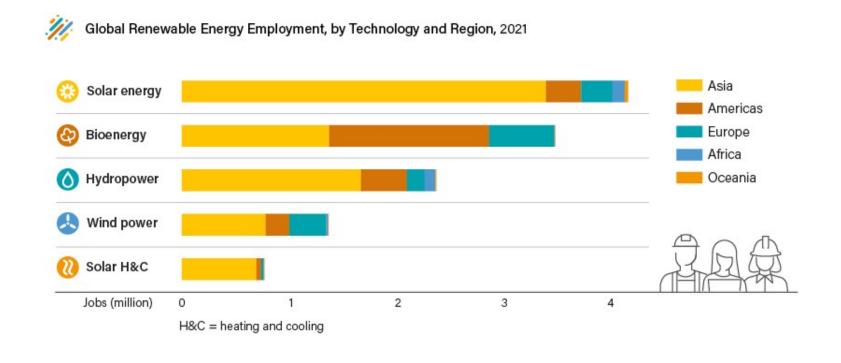
South Africa: 520.000

Nigeria: 250.000

REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - RENEWABLES FOR ECONOMIC & SOCIAL VALUE CREATION

BUILDING A WORKFORCE FOR THE ENERGY TRANSITION

SOLAR AND BIOENERGY DRIVING JOB CREATION



two-thirds of renewable energy jobs in 2021; the Americas represented 21% and Europe 12%.

Women accounted for one-third of the workforce

Asia accounted for around

one-third of the workforce in 2021, but salaries remain 20% lower than those of male counterparts

REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - RENEWABLES FOR ECONOMIC & SOCIAL VALUE CREATION



LOCAL SUPPLY CHAINS

VALUE CREATION CLOSER TO HOME

Policies that are adopted globally to incentivise local supply chains:

- Regulations governing the use of locally produced materials are in place in more than 20 countries, including 7 advanced economies
- Import restrictions and higher tariffs on certain technologies
- Incentives for locally produced technologies
- Funds and grants allocated to support local manufacturing of renewable energy technologies
- Local content requirements in renewable power auctions
- Bans to export of unprocessed raw material



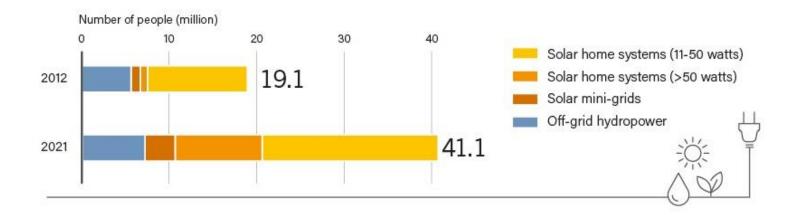


OFF-GRID RENEWABLES

EXPANDING ACCESS TO EFFICIENT AND AFFORDABLE ENERGY



Population with Access to Electricity Through Off-Grid Renewable Energy Systems, 2012 and 2021



The number of people gaining access to electricity through offgrid renewable-based systems more than doubled in the last decade.

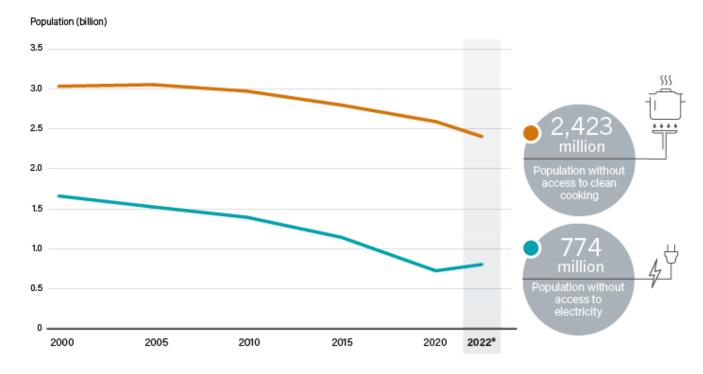
REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - RENEWABLES FOR ECONOMIC & SOCIAL VALUE CREATION

ENERGY ACCESS

GROWING INEQUALITY UNDERMINING A JUST TRANSITION



Population without Access to Electricity and Clean Cooking, 2022



🎉 REN21 RENEWABLES 2023 GLOBAL STATUS REPORT - GLOBAL OVERVIEW

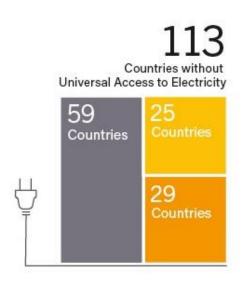
The 2022 energy crisis reversed global progress on electricity access, as lack of access was projected to increase for the first time in more than two decades.

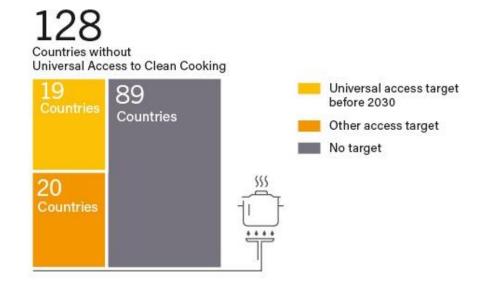
ENERGY ACCESS

GOVERNMENTS LACK OFFICIAL ENERGY ACCESS TARGETS



Countries Without Universal Access to Electricity and Clean Cooking, and Status of Targets, as of End-2022





More than half of the countries without universal access to energy don't have access targets.



THE WAY FORWARD

MAXIMISING THE ECONOMIC AND SOCIAL VALUE OF THE RENEWABLE ENERGY TRANSITION

- Renewable energy is an answer to many challenges the potential is huge
- We are moving from an energy revolution into an industrial revolution
- Energy, climate, industrial, trade, economic policies are driving renewable energy
- Accelerating deployment means accelerating the economic and industrial renewable energy sector
- Maximise economic and social value
 - Bridging national, regional and global interests
 - Phase out fossil fuel needs to be coupled with renewable deployment
 - Equitable access to renewable energy technology, finance, skills

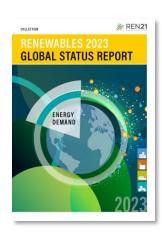
To guarantee global stability

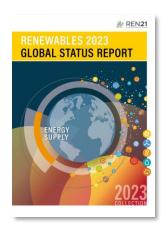
Systemic approach is needed!

The shift to renewables means a shift of the energy system, the economy and the society

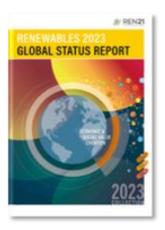
THANK YOU!

ENJOY THE GSR 2023 COLLECTION













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