

UNECE RENEWABLE ENERGY STATUS REPORT 2022

GERE Annual Session 2022



Rana Adib

Executive Director





DRIVING THE SHIFT TO RENEWABLES - NOW!

The only **global community** of renewable energy actors from science, academia, NGOs, governments, and industry.

Our more than **3,000 community members** co-operate collecting information, changing norms and debating.



We build upon a decentralised intelligence, ensuring high responsiveness to an ever changing environment.

Our annual publications are probably the world's most comprehensive, crowdsourced reports on renewables.



2022 UNECE RENEWABLE ENERGY STATUS REPORT

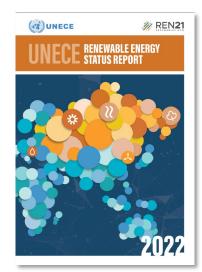
CONTINUOUS REPORTING SINCE 2015 - 260+ CONTRIBUTORS IN 2022

THE REPORT FEATURES 17 COUNTRIES PLUS KOSOVO

- Regional Overview
- Policy Landscape
- Market and Industry Overview
- Distributed Renewables for Energy Access
- Energy Efficiency
- Investment Flows
- Current Thinking about the Future of Renewables









THE UNECE RE-UPTAKE PROJECT 2022

2 REPORTS, 4 HARDTALKS

PARTNERS







SUPPORTED BY





UNECE Renewable Energy Hardtalks

- Albania
- Georgia
- Serbia
- Moldova



WHY DOES THIS REGION MATTER?



RISING ENERGY AND FOOD SECURITY ISSUES AMONG OTHERS



Massive untapped potential

Fossil fuels & import dependency

Need for stable and secure energy supply

Russia's invasion of Ukraine accentuates importance of energy security and sovereignty

Key role of energy in economic and societal developments **Energy poverty**

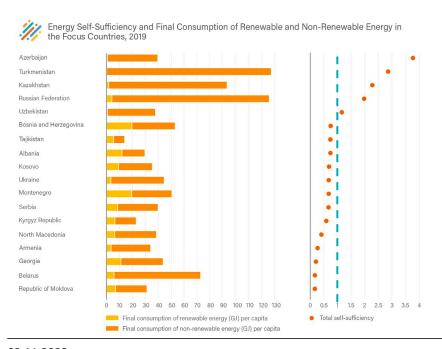
Emissions and air pollution





COMPETITION WITH OTHER ENERGY SOURCES AND IMPORT-DEPENDENCY

ENERGY SECURITY, SOVEREIGNTY AND RISING COSTS

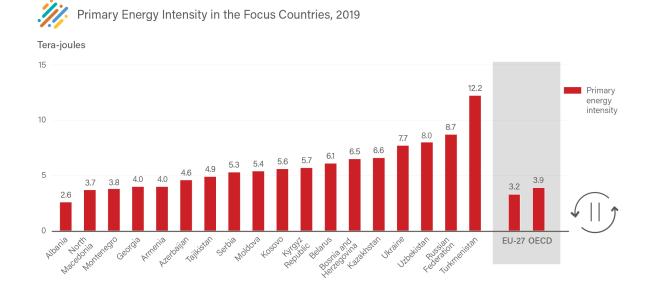


Only 5 countries are self-sufficient – nearly entirely on fossil fuel.



HIGHLY ENERGY INTENSE COUNTRIES

HUGE POTENTIAL FOR ENERGY SAVING AND ENERGY EFFICIENCY



Exceeds EU-27/OECD averages.

Even so, this has sharply declined in the last decades.



DRAGS AND DRIVERS

WHAT IS PUSHING GROWTH AND WHAT IS DRAGGING IT DOWN

Fossil fuel & import dependency	Subsidies and artificially low tariffs		Energy security and sovereignty	CBAM (Cross- Border Adjustment Mechanism)	
The "power" of conventional energy	Investment risks and uncertainties	Public opposition	Energy poverty	Health and air quality	

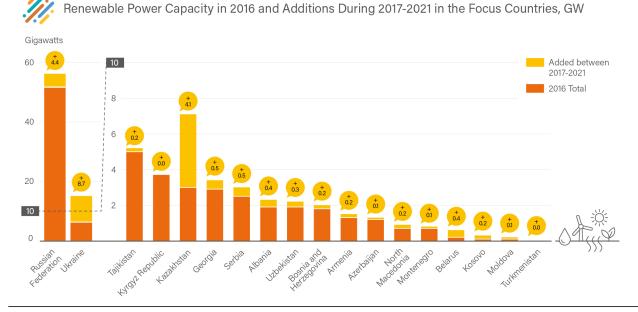


WHAT'S BEEN HAPPENING?

THE GOOD NEWS



BREAKTHROUGH GROWTH IN RENEWABLE POWER



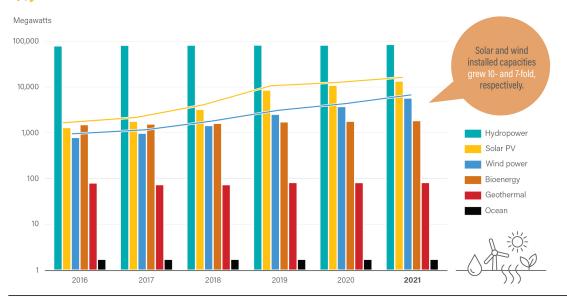
20.7 GW of capacity added in the last 5 years – total installed capacity was 106 GW in 2021.



SOLAR AND WIND CAPACITY GREW DRAMATICALLY

DIVERSIFICATION OF FUEL SOURCES





First time in 2018 that installed solar PV capacity overtook hydropower.



GROWTH BACKED BY MANY FACTORS

- Energy security & sovereignty
- Favourable policies
- Falling costs of solar PV and wind
- Leaders
 - Russian Federation
 - Ukraine
 - Kazakhstan





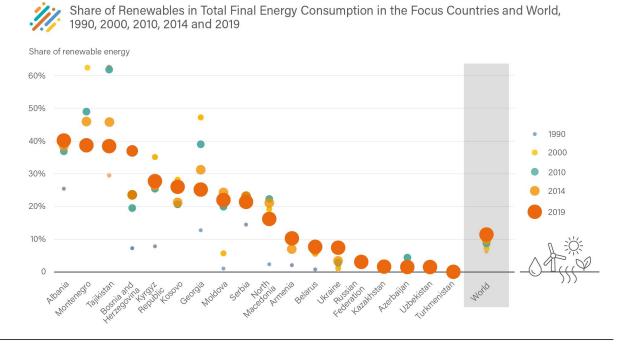
WHAT'S BEEN HAPPENING?

THE NOT-SO-GOOD NEWS



SHARE OF RENEWABLES IN TOTAL FINAL ENERGY UNCHANGED SINCE 2014

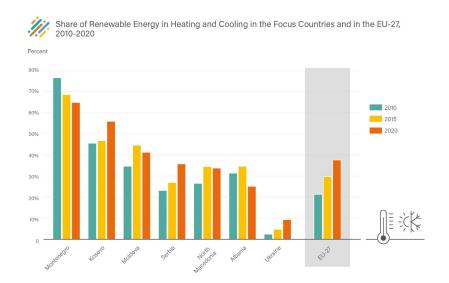
- **18.2% in 2019** and 2014
- Positive developments:
 - Bosnia & Herzegovina
 - Kosovo
 - Ukraine
 - Armenia
- Visible decline due to:
 - Slowdown in hydropower
 - Increase in motorisation
 - Minimal change in TFEC

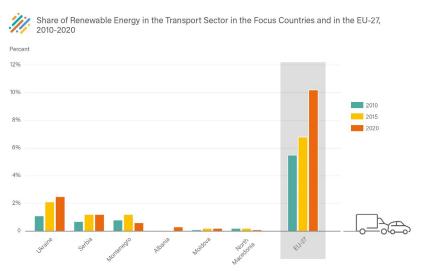




HEATING, COOLING AND TRANSPORT LAG BEHIND

THOUGH LARGE SHARE IN ENERGY DEMAND (~80%)





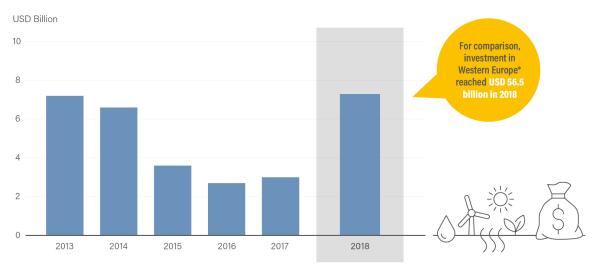


FLUCTUATING INVESTMENT LEVELS

INVESTMENT DATA FOR THE REGION IS A HUGE CHALLENGE



Renewable Energy Investment in the Focus Countries and in Four Countries of Central and Eastern Europe, 2013-2018



USD 7.2 billion in the region

VS.

USD 56.6 billion in Western Europe

VS.

USD 284 billion globally in 2018



POLICIES PLAY A KEY ROLE

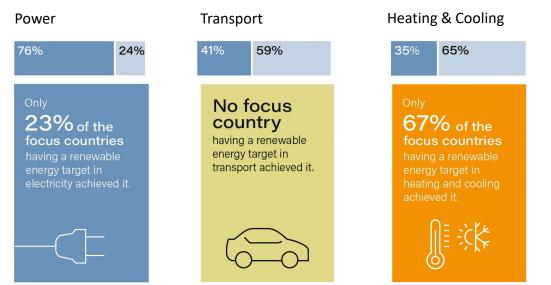
LOOKING BACK TO LOOK AHEAD

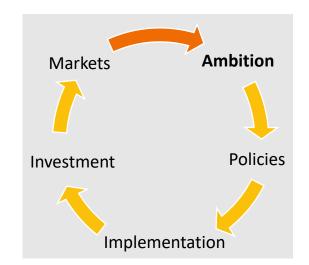


HAVING TARGETS ARE NOT ENOUGH

POLCIES AND IMPLEMENTATION NEED TO BE STRENGTHENED

Renewable Energy Targets







MOREOVER, POLICIES NEED TO BE BROADENED

TRADE AND INDUSTRIAL POLICIES

CBAM & export markets

- Energy supply has impact on trade and goods supply
- Effect on economy

Food nexus

- Agriculture: key energy-consuming sector
- Caucasus, Western Balkans and Central Asia

Industrial and economic policy

Local value creation and jobs





BUILDING VALUE FOR RENEWABLES

WHERE DO WE GO FROM HERE?



RENEWABLES - A SOLUTION BEYOND ENERGY SUPPLY

RESILIENCE AND NEW ENERGY GOVERNANCE

Resilience

- to shocks and conflict (Russian invasion of Ukraine)
- climate resilience
- Diversification

reduces energy imports and fluctuating prices

- Decentralisation
 - serves remote areas
 - addresses energy poverty

...key role in the socio-economic and political priorities





URGENT AND CONCRETE ACTION NEEDED BY GOVERNMENTS

IN COLLABORATION WITH PRIVATE SECTOR AND CIVIL SOCIETY

Investment in energy supply but also energy infrastructure

Go beyond electricity – heating and cooling, transport



Continuously close data gaps (heating, cooling, transport, investment)



Build stronger technology supply chain (domestic and regional) Increase regional cooperation

UNECE RENEWABLE ENERGY STATUS REPORT 2022



www.ren21.net/unece



