# THE STATE OF RENEWABLE ENERGIES IN **EUROPE, 23rd EDITION**

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The EurObserv'ER project has released its annual report: The state of renewable energies in Europe. Dedicated CHAPTERS and KEY DATA include:

### **Energy indicators**

<b>24.6</b> %	<b>RES share</b> in total EU gross final energy consumption in 2023 (23.1% in 2022)
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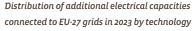
- 45.3% RES-E share in gross EU-27 electricity consumption in 2023 (41.2% in 2022)
- Share of total final energy consumption from RES for heating and cooling (25.0% in 2022) 26.2%
- 1 230 TWh **RES-E generation** in the EU-27 in 2023 (1 156.5 TWh in 2022)
- Electricity storage capacity installed in the EU-27 at the end of 2024 (48.7 GW in 2023) 54.8 GW

### Socio-economic indicators

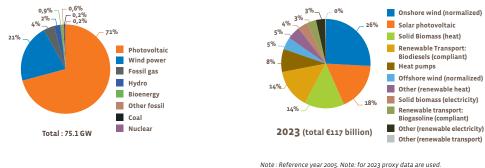
- Jobs in the EU renewable energy industry in 2023 (1.64 million in 2022) 1.86 mln
- Turnover by renewable energy sources in EU-27 in 2023 (€205 bn in 2022) € 233 bn

### Avoided fossil fuel use and avoided expenses

- 206 Mtoe EU-27 substituted fossil fuels (194 Mtoe in 2022)
- EU-27 avoided expenses through renewables (€165 bn in 2022) € 117 bn
- 653 MtCO2eq Averted GHG emissions through renewable energy use in the EU-27 in 2023 (614 MtCO2eq in 2022)



EU-27 avoided expenses through renewables in 2023



Source: FurObserv'FR - Ember

Source: EurObserv'ER based on EEA data.



45.3%

EU-27 RES share in gross electricity consumption in 2023

€ 233 bn

Turnover generated by renewable energy sources in EU-27 in 2023

# 653 MtCO2eq

avoided GHG emissions through RES consumption in the EU-27 in 2023

Gross renewable employment (data for 2023)



#### 400 000 350 000 300 000 250 000 200 000 150 000 100 000 50 000 0 Sweden Portugal Hungary Bulgaria Ireland lovenia Malta Spain France Poland Denmark thuania Romania Finland Austria Estonia lovakia Italy Vetherlands Latvia Croatia Germany Greece Czechia selgium Cypr

Source: EurObserv'ER

## FURTHER INFORMATION

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### DISCLAIMER

This barometer was prepared by the EurObserv'ER consortium, which groups together Observ'ER (FR), TNO (NL), Renewables Academy (RENAC) AG (DE), Fraunhofer ISI (DE) and VITO (Flemish Institute for Technological Research) (BE). This document has been prepared for the European Commission however it reflects the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information.