

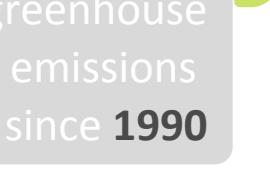
RENEWABLE ENERGY FACTSHEET

Supporting the green transition

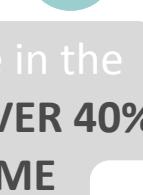
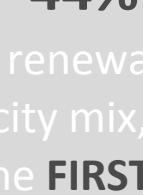


Key facts and figures about renewable energy in the EU

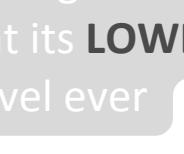
2023 A MILESTONE YEAR FOR RENEWABLE ENERGY IN EUROPE

 - 27%

EU greenhouse gas emissions since 1990



44%

Share of renewable in the EU electricity mix, **OVER 40%** for the **FIRST TIME**Coal generation at its **LOWEST** level ever

SOLAR ENERGY

Solar panels have photovoltaic cells, which converts the sun's energy into electricity

Almost 17 million more European homes are powered by solar

 37%

of total renewable electricity generation in 2022



EU solar capacity

From 164 GW in 2021 to 263 GW in 2023

640 000

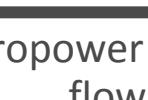
workers in solar energy



WIND POWER

Wind turns the rotor blades on the turbine which spin a generator and produce electricity

Wind energy generates 17% of electricity in Europe

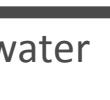
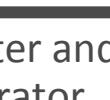
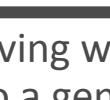
 18%

of total renewable electricity generation in 2022



EU wind capacity

From 188 GW in 2021 to 221 GW in 2023

The world's biggest turbines generate enough power for **170,000 homes**

HYDROPOWER

Hydropower produces electricity from moving water and water flows, using turbines connected to a generator

Hydropower is one of the **oldest** sources of renewable energy



30%

37%

18%

Hydropower is the **2nd** largest renewable electricity source

France, Italy & Spain are the largest producers of hydropower in the EU

Hydropower stations can easily reach **100 years**

SUPPORTING THE GREEN TRANSITION

HY4RES combines solar, hydro and wind power to create hybrid energy systems and develops energy storage solutions



PV modules



Wind turbine

Hydropower energy storage

Battery bank



Generator



Load

