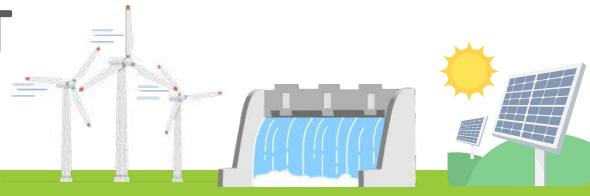


RENEWABLE ENERGY FACTSHEET

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



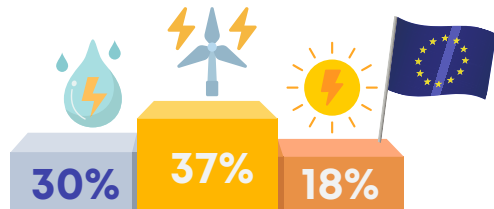
The world's biggest turbine
generate enough power for

170,000 homes

HYDROPOWER

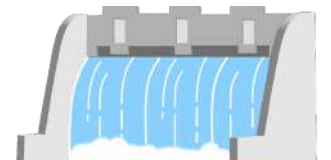
Hydropower produces electricity from moving water and water
flows, using turbines connected to a generator

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



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

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

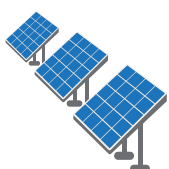


Hydropower stations
can easily reach

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

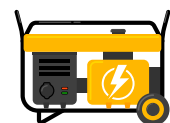


Wind
turbine



Hydropower
energy storage

Battery
bank



Generator



Load