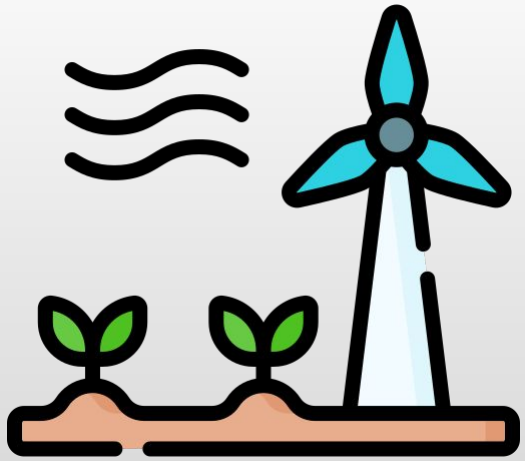
How to reach net zero?

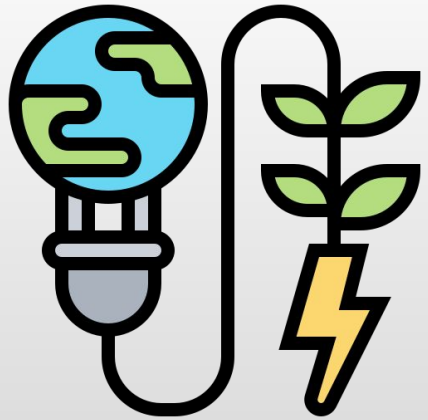
To decarbonize the energy production, we need

2,5 times wind farm



3,5 times solar PV

11 times energy storage



Efficient, cost-effective, anywhere

Long-duration energy storage is crucial to unlock the tremendous potential of solar and wind energy, making them dispatchable, avoiding their curtailment

Energy Dome's technology, the **CO2 Battery**, allows to store large quantities of energy for long periods of time, without any site dependency and deliver all the typical services of utility-scale storage systems, including grid regulation.

The process is based on the principle of manipulating and storing CO2 in a closed-loop cycle, without emissions into the atmosphere.
The innovation relies on the process, not on the equipment.

We source off-the-shelf components, based on sustainable materials, from a reliable supply chain.

ENERGYDOME
Making the Energy Transition happen

CO2 BATTERY

EFFICIENT
Round-Trip Efficiency (75%+) AC-AC MV-MV

PROVEN
The first CO2 Battery plant (2.5MW-4MWh) currently operational and grid connected

COST-EFFECTIVE
Highly competitive CAPEX and OPEX

DURABLE
No degradation of capacity or performance over 30+ years

RELIABLE
Off-the-shelf components based on sustainable materials

SITE INDEPENDENT
The plant can be installed anywhere in the world

Efficient,
cost-effective,
anywhere

The first CO2 Battery plant on MW scale was installed in Italy, in May 2022, to confirm performance and storage capacity

Independentely certified by

FICHTNER
Consulting Engineers Limited

ENERGYDOME
Making the Energy Transition happen

Currently operational and grid connected

CO2 BATTERY 2.5MW- 4MWH