

7 AFFORDABLE AND CLEAN ENERGY





**What is
Energy ?
Why we do
need
Energy?**



Energy is central to nearly every major challenge and opportunity the world faces today. Be it for jobs, security, climate change, food production or increasing incomes, access to energy for all is essential.



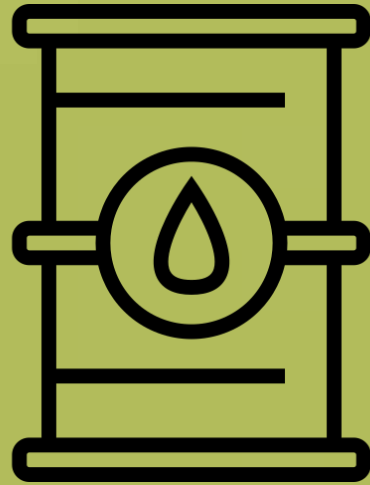
Our current reliance on fossil fuels is bad and harmful to the planet, which is why we have to change the way we produce and consume energy.



Types Non renewable energy



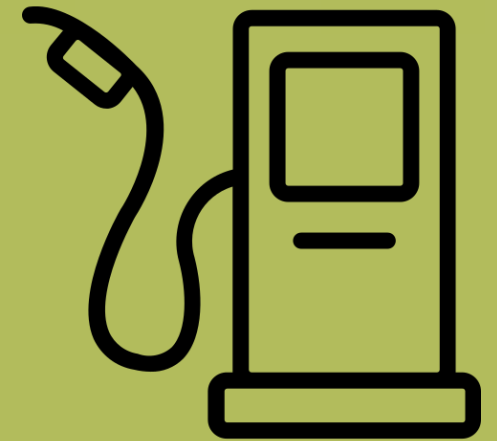
nuclear



oil



coal



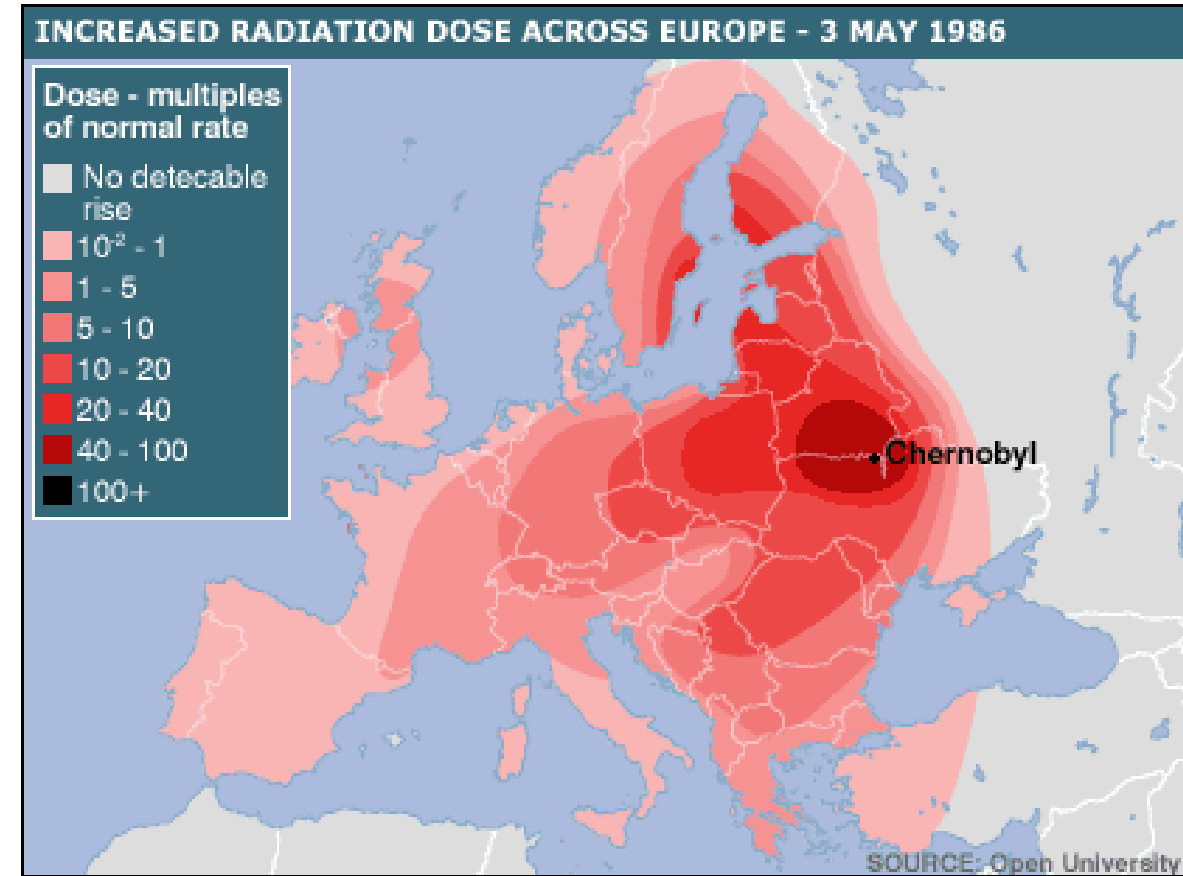
natural gas

CHERNOBYL DISASTER



- **Chernobyl disaster** is a catastrophic nuclear accident at the Chernobyl Nuclear Power Plant.
- **DATE:** 25-26 April, 1986.
TIME: 01:23.
LOCATION: Prypiat town, Ukrainian SSR, Soviet Union; 18 km away from **Chernobyl** city, 16 km - from Belarus, 110 km - from Kyiv.
- **POLLUTION.** Over **200 000 km²**. 70% of pollution - Belarus, Ukraine, Russia.

- After the accident a big *radioactive cloud* was created. It covered not only Ukraine, Belarus and Russia, but also many countries of Europe.
- The USSR government **hid** information about the disaster. Only on 27th April Sweden nuclear power plant informed the world that they had found radioactive parts.
- **Diseases provoked by radiation:** acute radiation sickness, thyroid cancer, leukemia, congenital pathology, child mortality, other illnesses



Today...



**2.8 BILLION
PEOPLE GLOBALLY**
have no access to
modern energy services



ENERGY is the dominant
contributor to climate change,
accounting for around 60% of
total global **greenhouse gas
emissions**



**1.4 BILLION
PEOPLE GLOBALLY**
lack electricity



**AROUND 4.3
MILLION PEOPLE**
are dying prematurely
every year due to indoor
pollution from cooking
and heating with
unusable fuels



**3.2 BILLION
PEOPLE GLOBALLY**
still use wood, charcoal,
animal or crop waste or
other solid fuels to cook
their food and heat their
homes

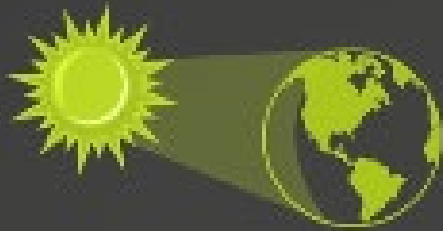


**OVER 1.1 BILLION
PEOPLE** don't have
electricity

**What do you think,
how can we solve this
problem?**

Types of renewable energy

SOLAR



WIND



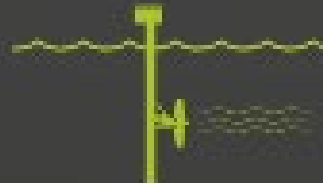
HYDROPOWER



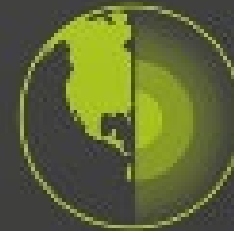
BIOMASS



TIDAL



GEO THERMAL



Renewable energy

What are the advantages and disadvantages?