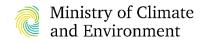
Energy Policy of Poland 2040







# **Going to climate neutrality – trends**

Technological development

New models of energy generation from central to local

**Natural energy units** replacement

**Fulfiling social needs** 

New

New management models of energy balance system (flexibility)

technolgies

Digitaliza Strorage -tion

Sector coupling

Electrification

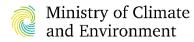
End of old electricity units' life

Reduction of RES technologies

Just/fair transformation

Air quality

Climate change – water management





PILLAR I



Just transition

PILLAR II



Zero-emission energy system

**PILLAR III** 



Good air quality





#### **PILLAR I**

#### Just transition





COAL REGIONS
TRANSFORMATION

Financial assistance by EU funds around 60 bln PLN



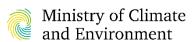
REDUCTION IN ENERGY POVERTY

Reduction by 30% till 2030 r.



NEW INDUSTRY SECTORS
RELATED TO RES
AND NUCLEAR ENERGY

300 000 new workplaces





#### **PILLAR II**

### Zero-emission energy system





OFFSHORE WIND

Up to 11 GW to 2040 r.

Investment outlays
around 130 bln PLN



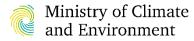
NUCLEAR ENERGY

Approx. 6-9 GW Investment outlays around 150 bln PLN



DISTRIBUTED ENERGY AND PROSUMER

Increase of active energy consumers 300 self-sustainable areas and 1 mln prosumers till 2030





### Good air quality





HEAT SECTOR
TRANSFORMATION

Coal phase-out in individual heating:
in cities by 2030;
in rural areas by 2040;
including possibility to use smokeless fuels by 2040

Development of district heating in cities
Increase of 1,5 mln domestic households connected
to heating network



CLIMATE FRIENDLY HOUSE

Increase in number of zero-emission houses

3 mln houses with new ecological heating sources till 2030 1000 low-emission public buildings till 2030



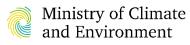
ZERO -EMISSION TRANSPORT

#### Electromobility development

in cities above 100k citizens:

From 2025 — only zeroemission newly bought vehicles in public communication

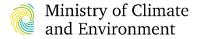
From 2030 — all vehicles in public communication are zeroemission





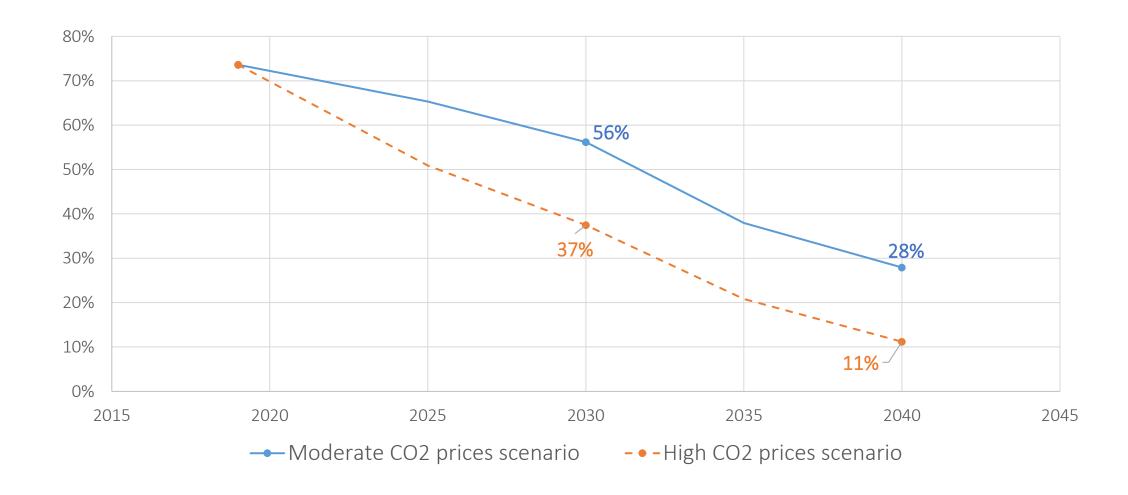
#### **INCREASE RES PARTICIPATION IN ALL SECTORS AND TECHNOLOGIES**

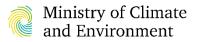
Target: at least 23% RES share in final energy consumption in 2030 23% **RES** in transport min. 32% biofuels and **RES IN ELECTRICITY PRODUCTION Explicit role of offshore wind** (about 5,9 GW), photovoltaic (about 5-7 GW), onshore wind (up to 11 GW) 28% **RES IN HEAT AND COOLING SECTORS** Explicit role of biomass heat pumps, biogas and geothermic



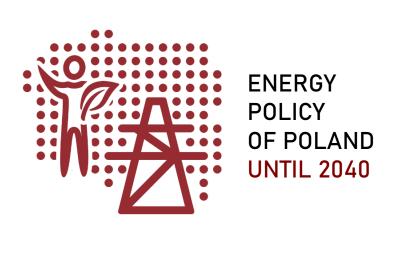


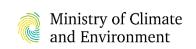
## Share of coal in electricity until 2040











Energy Security

Investment Impuls

**Zero-emission** 

**Energy System** 

Good Air Quality

New Jobs

**Just Transition** 

Electromobility

Transformation of heat sector