













Poland's Clean Energy

MAIN REASONS OF ZE PAK TRANSFORMATION





"CLEAN POLAND" program

possibility to support transformation with funds from the Just Transition Fund

running out of coal resources



world trends



image



innovative technologies



WHY DO WE

DO THAT?





own, well located land





existing infrastructure



competent resources



good insolation



ENERGY TRANSFORMATION AND DEVELOPMENT OF HYDROGEN ECONOMY



The need of energy transformation in Poland

- Full determination to implement the EU climate policy
- ZE PAK is ready for a quick transformation towards green energy, the need for financial support
- ZE PAK wants to use the support under the Just Transition Mechanism

An investment in green hydrogen as the fuel of the future

- Green hydrogen offers the potential to decarbonise a number of industries where it is difficult to significantly reduce CO2 emissions
- As renewable energy production costs decrease, the potential for green hydrogen production will increase
- Hydrogen may contribute to building the energy independence of Poland and Europe, independence from the import of fossil fuels



STRATEGIC GOAL 1

Energy transformation from coal to RES – from black to green energy.

STRATEGIC COAL 2

Europe's first nationwide full value chain for building a green hydrogen economy - an investment in the future, CO2 reduction, clean air and zero-emission fuel of the future..

With the support of EU funds, in particular the Just Transition Mechanism, ZE PAK is prepared for the fast transformation path from coal to renewable energy.

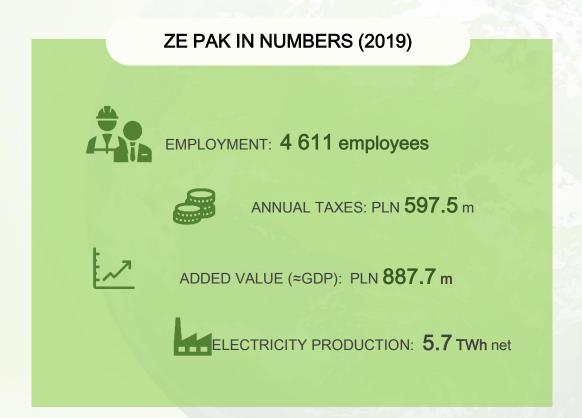
The strategic goals will be realized on the foundation of **just transition**, decarbonisation and advanced technologies.

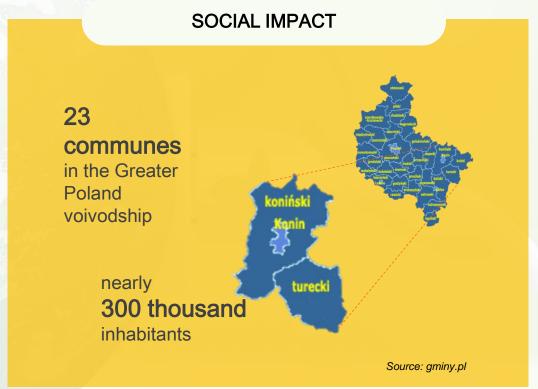
JUST TRANSITION



"An important element of the Green Deal is the commitment to make the transition socially fair and that no region is left behind. (...) Such a transformation cannot take place if it is not approved by the inhabitants"

Frans Timmermans - Vice-President of the European Commission

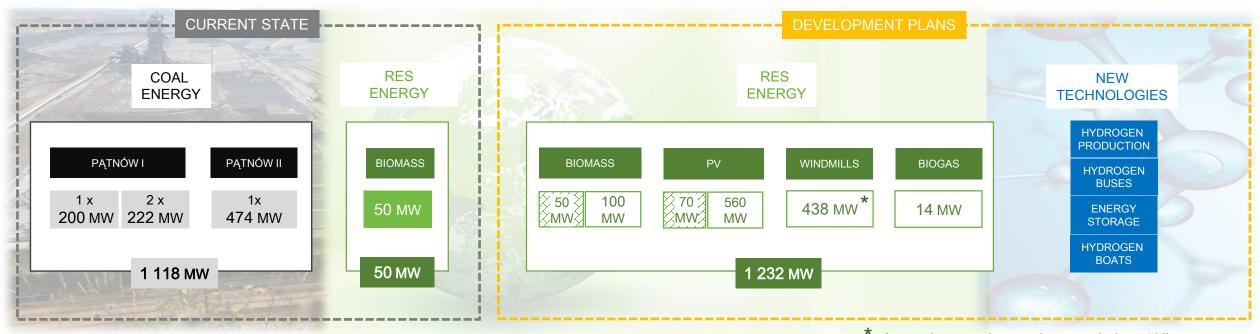




ZE PAK GROUP KEY PARTICIPANT OF THE TRANSFORMATION OF THE EASTERN WIELKOPOLSKA REGION TOWARDS EMISSION NEUTRALITY

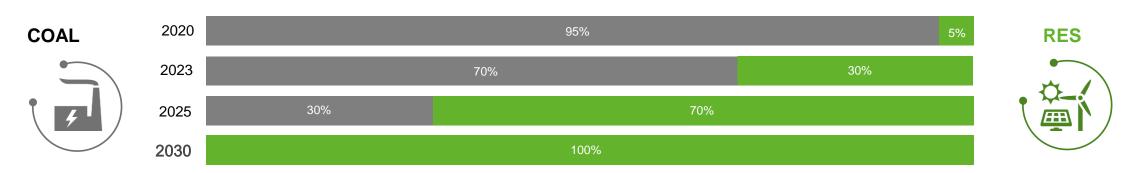
WHAT DO WE WANT TO ACHIEVE?





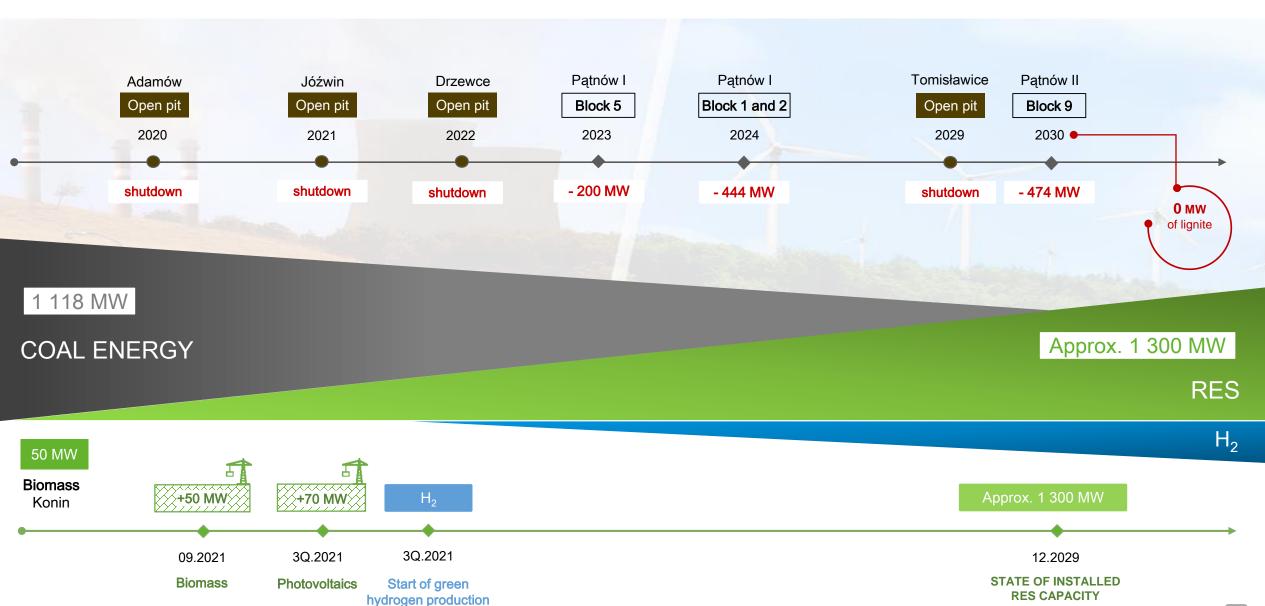
* Assuming regulatory changes (a.k.a10H)

structure of installed capacity by fuel type



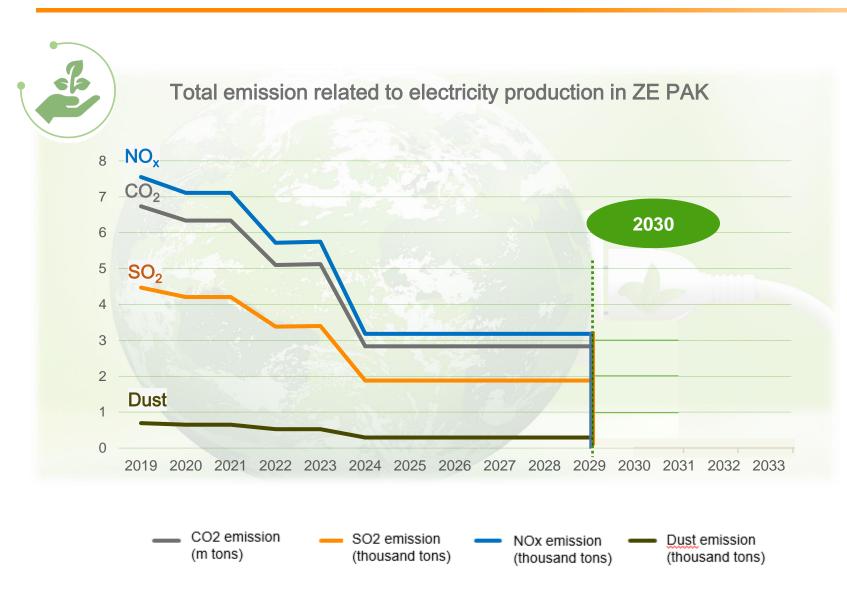
TRANSFORMATION TOWARDS CLEAN POLAND





EMISSION NEUTRALITY AFTER 2029





O emission

Related to

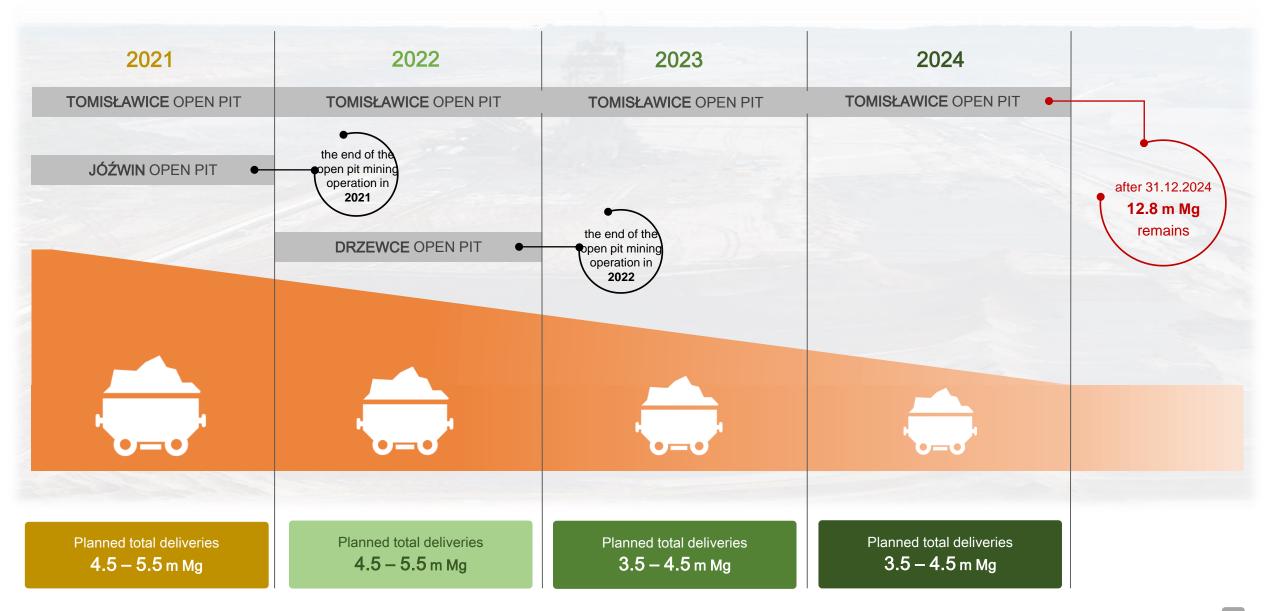
Electricity production

We are ahead of the goal of European Union climate neutrality (2050)

by 20 years

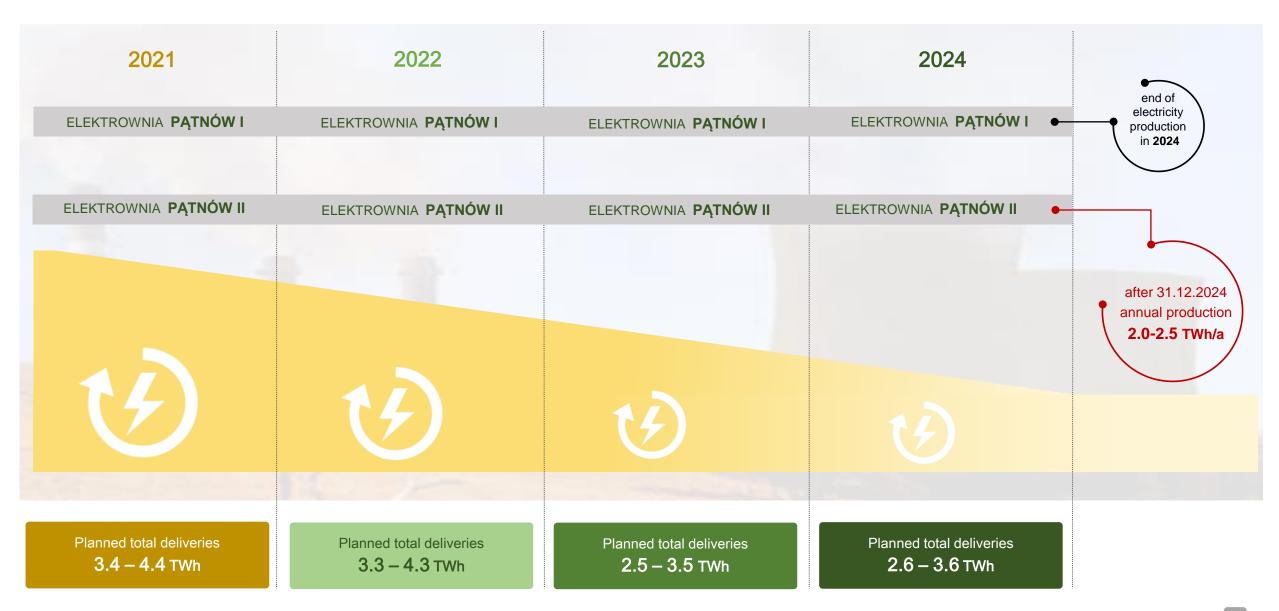
COAL MINING SEGMENT IN THE PERSPECTIVE OF 2024





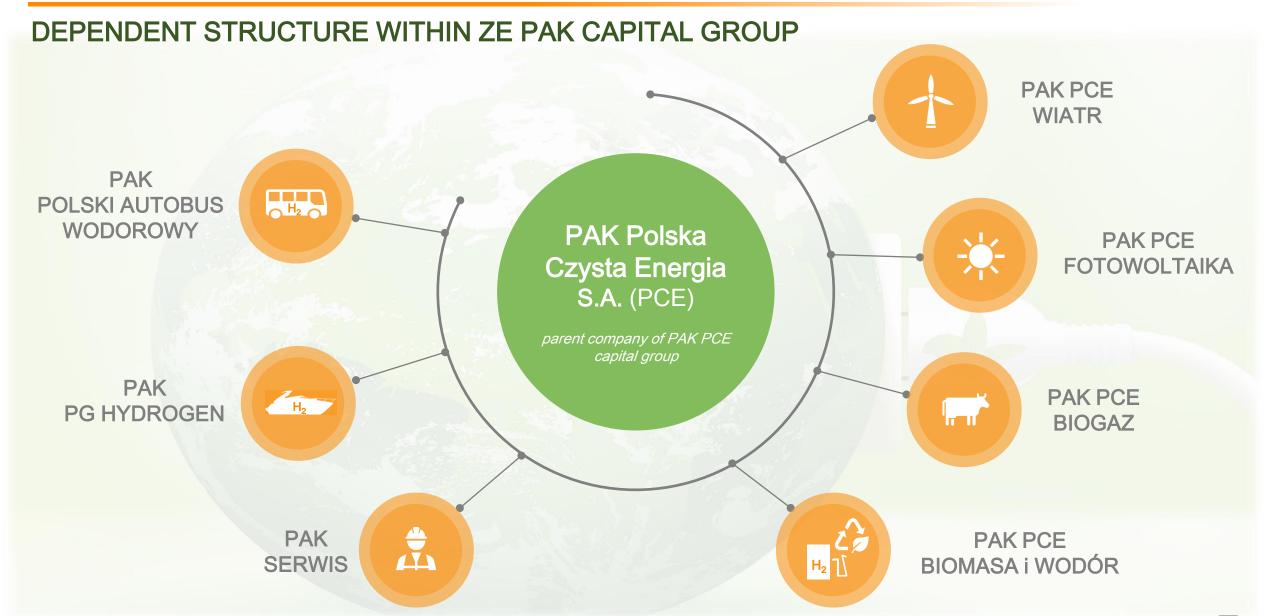
COAL ENERGY GENERATION SEGMENT IN THE PERSPECTIVE OF 2024





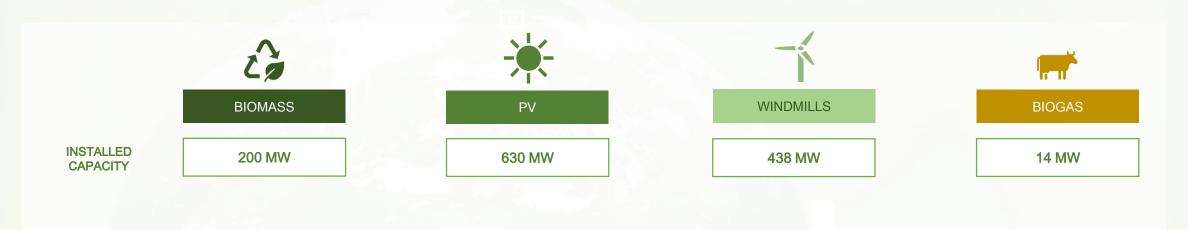
PAK POLSKA CZYSTA ENERGIA GROUP





GREEN ENERGY DEVELOPMENT PLANS





Structure of INSTALLED CAPACITY acc. to RES type

