



# **ONGOING PLANNED NUCLEAR POWER PROJECTS IN POLAND**

**Baltic Sea subregional meeting  
UNECE ESPOO**

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# Issuing decisions related to nuclear energy

## DECISIONS IN NUCLEAR ENERGY

Among the most important acts necessary for the preparation and implementation of the project for the construction of a nuclear energy facility the following decisions should be indicated (but not limited to).

### DECISION IN-PRINCIPLE

- granting "political" consent and determining permitted investment parameters for the construction of a nuclear energy facility, conditioning the obtaining of further decisions;
- an expression of the state's acceptance of construction of a nuclear energy facility in a specific location, by a specific investor, using a specific technology;
- secures the public interest in terms of state policy objectives, including energy policy and state security;
- Ministry of Climate and Environment.

### GENERAL OPINION ON PLANNED ORGANIZATIONAL AND TECHNICAL SOLUTIONS IN FUTURE ACTIVITIES AND DRAFT DOCUMENTS

- issuing an opinion on the planned technical solutions, which will then influence the organizational and technical solutions proposed by the investor/supplier;
- National Atomic Energy Agency.

### DECISION TO INDICATE THE LOCATION OF THE INVESTMENT

- granting the investor permission to enter the property in order to enable measurements, tests or other works necessary for the assessment of the location and environmental research;
- Provincial Governor.



# DECISIONS IN NUCLEAR ENERGY

## DECISION ON ENVIRONMENTAL CONDITIONS

- determination of environmental impacts, including transboundary;
- issued after an environmental impact assessment of the project including public participation and transboundary consultations;
- determination of environmental conditions for the implementation of the nuclear energy facility project;
- General Director for Environmental Protection.

## DECISION TO DETERMINE THE LOCATION OF THE INVESTMENT

- specifying the location and certain technical, environmental and fire protection conditions of this investment;
- results in the regulation of the legal status of the property (including transfer of ownership);
- Provincial Governor.

## PERMITS

### FOR PREPARATORY WORK

### TO BUILD A NUCLEAR ENERGY FACILITY

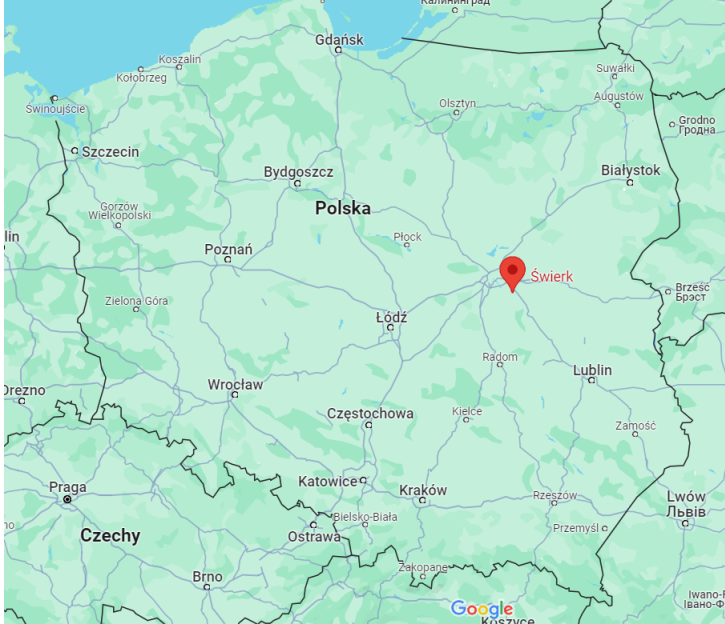
### BUILDING PERMIT

### TO START UP A NUCLEAR ENERGY FACILITY

### TO OPERATE A NUCLEAR ENERGY FACILITY



## CURRENT NPP PROJECTS IN POLAND



- **The MARIA research reactor**, currently the only active nuclear reactor in Poland, is a high-flux research reactor of the pool type, with a design nominal thermal power of 30 MW.
- The MARIA reactor was operated from December 1974 at the Institute of Nuclear Research, and then from 1983 at the Institute of Atomic Energy in Świerk, with a break for modernization in 1985-93, and in 1999-2002 it underwent conversion from 80-enriched fuel. % for fuel with 36% enrichment.
- The MARIA reactor is used for irradiation of target materials used for the production of radioactive preparations, for physical research using horizontal channels (mainly in the field of condensed matter physics), for irradiation of crystals and silicon doping, for applied research, e.g. using neutron activation analysis, and also for training purposes.
- **The EWA research reactor** since 1997 in decommissioning.

# POLISH NUCLEAR ENERGY PROGRAM

## DOCUMENT

The **PNPP** is a strategic document covering the entire territory of Poland, adopted by resolution of the Polish Council of Ministers in 2014 (updated in 2020).

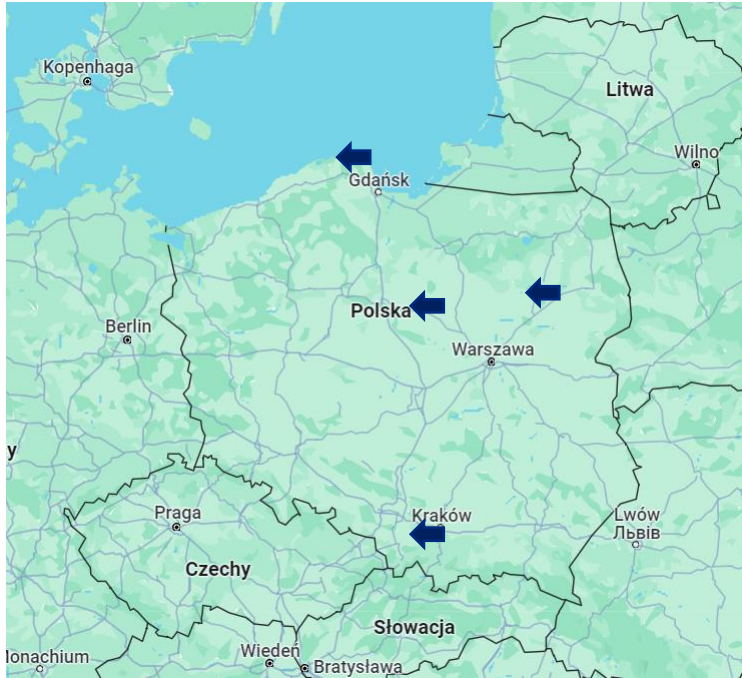
- covers the scope and structure of activities to successfully implement nuclear power in Poland;
- indicates potential locations for future nuclear facilities;
- ensures safe and effective operation of nuclear facilities, including decommissioning;
- ensures safe handling of spent fuel and radioactive waste;
- legal framework.

## TRANSBOUNDARY CONSULTATIONS

- **10 parties notified**, 7 declared its wish to participate (Austria, Sweden, Finland, Czech, Slovakia, Germany, Denmark), Estonia, Latvia and Lithuania did not declare participation, but wish to attend at the EIA stage;
- **notification** included the draft programme and the environmental report (English and German translations);
- **transboundary consultations** with the APs came up to 5 months from receiving notification;
- expert meetings at the governmental level: **Slovakia** – 23 July 2012, **Austria** – 22 November 2012, **Germany** – 27 November 2012, **Denmark** – 4 December 2012;
- **public participation** in the APs was organized twice (1st – draft PNPP and environmental report – 3 months, 2nd – annex including new proposal of location – 21 days);
- **programme was adopted** and published in 2014, English and German translations were provided to the APs.



## EIA PROCEDURES FOR NPP PROJECTS IN POLAND



CONSTRUCTION AND OPERATION OF THE FIRST NUCLEAR POWER PLANT IN POLAND, WITH AN ELECTRIC CAPACITY OF UP TO 3,750 MWE, IN THE AREA OF THE COMMUNES OF: CHOCZEWO OR GNIEWINO AND KROKOWA.

CONSTRUCTION AND OPERATION OF A SMALL MODULAR NUCLEAR POWER PLANT WITH A TOTAL ELECTRICAL POWER OF UP TO 1,300 MWE USING BWRX-300 TECHNOLOGY IN THE LOCATION OF STAWY MONOWSKIE, OŚWIĘCIM MUNICIPALITY

CONSTRUCTION AND OPERATION OF A SMALL MODULAR NUCLEAR POWER PLANT WITH A TOTAL CAPACITY OF UP TO 1300 MWE USING BWRX-300 TECHNOLOGY IN OSTROŁĘKA, OSTROŁĘKA MUNICIPALITY

CONSTRUCTION AND OPERATION OF A SMALL MODULAR NUCLEAR POWER PLANT WITH A TOTAL CAPACITY OF UP TO 2000 MWE USING BWRX-300 TECHNOLOGY IN WŁOCLAWEK, CITY MUNICIPALITY OF WŁOCLAWEK

## CURRENT STATUS AND TRANSBOUNDARY PROCEDURES

### STAWY MONOWSKIE

- Administrative procedure initiated for EIA decision 05/2023
- Notification to SK, CZ and AT (on request)
- The precautionary principle
- Information to DE, LT, BY, UA
- 5 Affected Parties participating
- Scoping ruling issued
- Administrative procedure suspended

### OSTROŁĘKA

- Administrative procedure initiated for EIA decision 08/2023
- The precautionary principle
- Information to BY, CZ, DE, LT, SK, UA
- AT on request
- 6 Affected Parties notified and participating
- Scoping ruling not yet issued

### WŁOCŁAWEK

- Administrative procedure initiated for EIA decision 08/2023
- The precautionary principle
- Information to BY, CZ, DE, LT, SK, UA
- AT on request
- 5 Affected Parties notified and participating
- Scoping ruling not yet issued





## CHALLENGES

- Strategic Environmental Assessment
- more projects in future
- number of EIA proceedings including transboundary
- costs of EIA decisions
- staff and expert issues
- approach concerning notification



THANK YOU FOR YOUR ATTENTION!



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