

Preparations of PAA and Poland for the deployment of the AP1000

Andrzej Głowacki

President of the National Atomic Energy
Agency (PAA)

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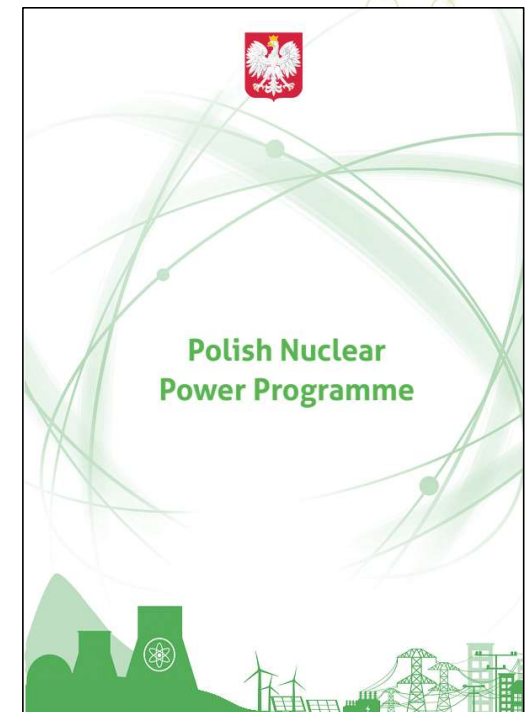
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National perspective

Gouvernement framework - Polish Nuclear Power Programme

- a strategic government document - updated in 2020
- focused on the implementation of the first and second nuclear power plant in Poland
- 2 nuclear power plants (NPP1 and NPP2)
- a total installed nuclear capacity of 6 to 9 Gwe
- each NPP will consist of 2-3 units (over 1000 MWe each)
- proven, large-scale, generation III(+), light water reactors
- estimation of human resources needed by the regulatory body
- a guaranteed multiannual financial framework



Timeline for the first NPP in Poland

Activities of the Government and project company (PEJ)

Activities of the regulatory authority (PAA)

An update of the Polish Nuclear Power Programme	2020	A new staffing plan for licensing of the first NPP
AP1000 technology selected for 3 units	2022	Start of recruitment
The project company (PEJ) signed an Engineering Services Contract with Westinghouse Electric Company and Bechtel consortium	2023	PAA-NRC bilateral arrangements renewed A Pre-Licensing Team established
An Engineering Development Agreement signed	2025	General opinions by the President of the PAA for the first NPP issued in 2023, 2024, 2025 Staff increase at the PAA by 75%, as compared to 2020
An expected application for the construction license of three AP1000 units	2026	The PAA will start the review and assessment of the construction application
Planned start of the construction	2028	The construction license to be issued by the PAA (estimations)



Approach of the PAA

Capacity building - strengthening the staff and building PAA's competencies

Hiring process - ongoing

- Challenges to acquire experts for engineering roles
- Market competition
- Cooperation with Universities

Training and retention

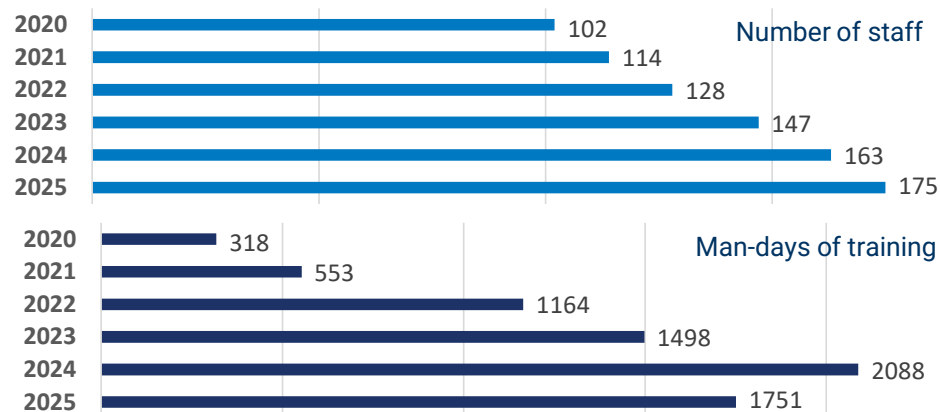
- Internal trainings and trainings organized in Poland
- IAEA and international trainings
- Cooperation with foreign regulatory bodies including on-the-job trainings
- On-boarding programme

Strengthening safety culture

- Bring and foster the message of safety priority to new staff members
- Safety culture self-assessment in 2025

People

hiring – training – development



Equipment & infrastructure

mobile laboratory – monitoring stations



Pre-Licensing Team

- A Pre-Licensing Team responsible for the preparation of the PAA to licensing of the first NPP **established in October 2023** by an Ordinance of President of the PAA
- More than **50 staff** members from five Departments of the PAA
- The Team is divided **into thematic teams** which carry out the tasks assigned by the **Lead PM or the Project Manager (PM) of the thematic team**
- Description and division of the team, tasks, schedule and responsibilities are provided in a **project charter**
- The Team will be transformed into the Licensing Team when the application for a construction license is submitted



Preparation for the licensing of AP1000



2023

Appointing the
Pre-licensing Team

LEGAL COMPARISON

domestic requirements

country-of-origin requirements

STRATEGIC PLANNING

internal regulatory review guides

external technical guides

a detailed schedule of the review

preparation for the TSO services
procurement

KEY OBJECTIVE

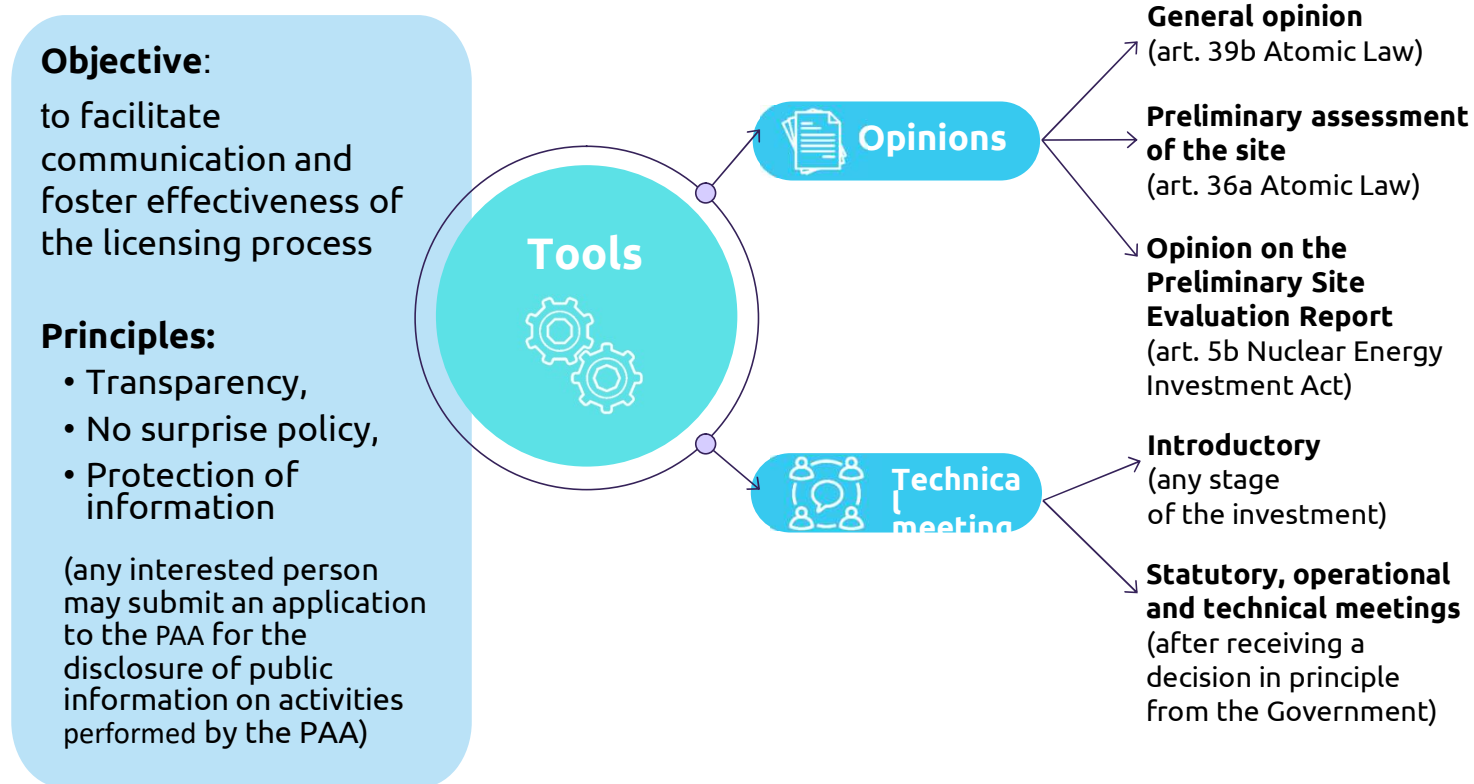
develop a robust framework
for review & assessment,
while ensuring alignment
with international safety
and security standards

2026

56 PAA's staff
in the Pre-Licensing Team

Pre-licensing activities

Framework for pre-licensing dialogue





Pre-licensing dialogue PAA - PEJ in 2025

- 37 technical meetings at level 2
- Coordination meetings every week to foster the cooperation
- 5 meetings between CEOs at level 0
- A platform has been established for the exchange of working documents and sharing of documentation by the PEJ
- President of the PAA issued a general opinion regarding Circulating Water System of the AP1000 on 28 March 2025
- An initial test review of a few documents which will be submitted together with the application – Chapter 4 of the PSAR as one of the most important

General opinion by President of the PAA



A general opinion may address:

- planned organizational and technical solutions
- drafts of documents that will be submitted along with the application



Benefits of the general opinion

- ✓ familiarization with a design - more effective and less time-consuming regulatory review
- ✓ possibility to identify legal obstacles or noncompliance of the design with the requirements at an early stage of licensing

Drawbacks of the general opinion



- ✓ the scope is defined by an applicant and the fee is fixed regardless of the scope (PLN 350 000 ~ USD 100 000)
- ✓ time for the review is fixed at maximum 9 months regardless of the scope
- ✓ no possibility for issuing RAIs (feedback can only be provided during meetings)

Cooperation with external partners and stakeholders

Bilateral cooperation with the US NRC

- **A new agreement on cooperation – 2023**
- **A two-year detailed action plan**
- **Bi-weekly coordination**
- **4 On-the-Job Trainings (OJT) – 2025:**
 - Neutronics
 - PSA
 - Project management for licensing
- **National workshops on safety culture**
 - With US NRC experts
- **Support in the preparation for licensing**
 - Regular extended visits of the US NRC Staff with focus on AP1000 licensing
 - Answers to technical questions
 - Provision of AP1000 models for nuclear codes
 - A three-week dedicated training on the AP1000 technology



**Thank you for your
attention!**