

PROSPECTS FOR THE USE OF MODULAR REACTORS IN THE NUCLEAR POWER INDUSTRY OF UKRAINE

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To determine the advantages of using small modular reactors over VVER-1000 reactors, their designs, safety systems and environmental aspects were compared.

The previous experience of NPP accidents shows that humanity is on the way to improving nuclear facilities aimed at reducing the impact of possible radioactive radiation and radioactive releases on the environment and humanity in general.

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Society has different perceptions of the topic of IMR. It is important to avoid spreading false and biased information, as the public is sensitive to nuclear energy after the Chernobyl accident.

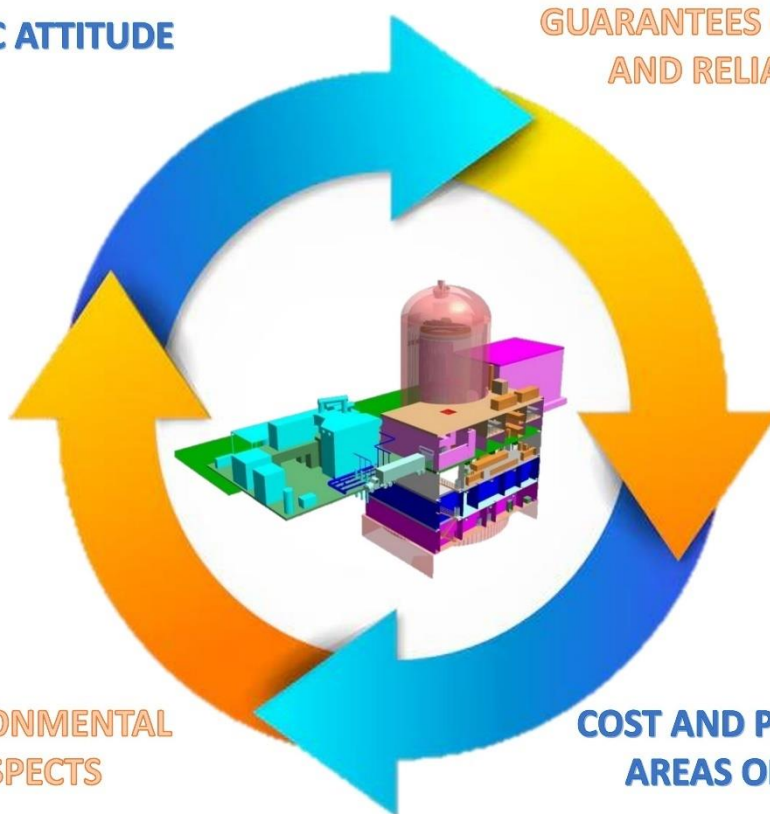
Due to the lack of experience in SMR operation, the guarantee of the declared parameters should be considered a mandatory requirement, regardless of the expert evaluation of the project and the results of its licensing.

PUBLIC ATTITUDE

GUARANTEES OF SAFETY AND RELIABILITY

ENVIRONMENTAL ASPECTS

COST AND PRIORITY AREAS OF USE



Methodological recommendations should be developed for the preparation of environmental and expert documentation for the IMR (strategic environmental assessment, environmental impact assessment, project for the organization of a sanitary protection zone)

To date, the issue of the cost of power generation at the MMR has not been fully clarified. It is also necessary to determine the most important directions and ways of implementing SMR, taking into account current needs and forecasts of the country's future needs.