



РОСАТОМ

ГОСУДАРСТВЕННАЯ КОРПОРАЦИЯ ПО АТОМНОЙ ЭНЕРГИИ «РОСАТОМ»

Global Challenges to New Nuclear Power Projects Implementation

In the last years the global energy sector has undergone drastic changes



OVERWHELMING DECLINE OF GENERATION COST



CAPITAL COST IS CONSTANTLY DECREASING

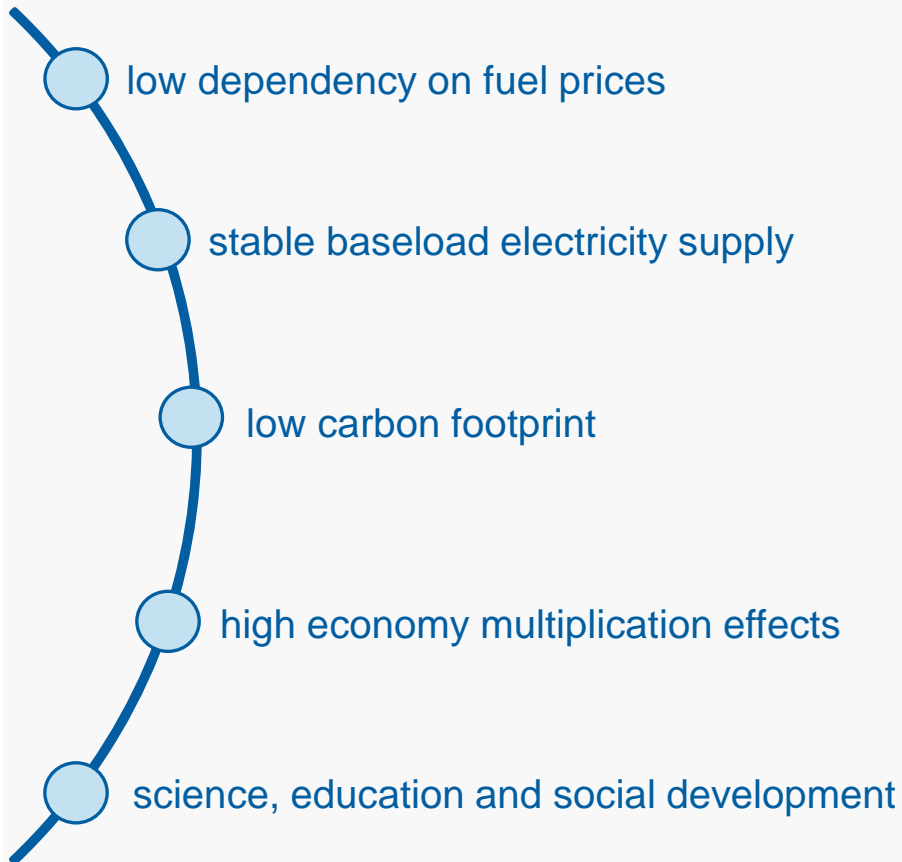


CONSTRUCTION TIME IS ALSO BEING REDUCED



ENVIRONMENTAL POLLUTION IS LESS OF AN ISSUE TO CARBON ENERGY

NUCLEAR POWER ADVANTAGES



Thought question:

- ? What is their real marketable value in comparison to those of conventional and renewable power sources?
- ? What do we all as a major nuclear industry representatives may offer to the countries which are deciding on whether to make a pro-nuclear choice in their energy strategies?

! *Customers make decisions based on a maximum risk-balanced strategies they may achieve and obviously nuclear risk portfolio looks to be one of the most difficult to assess, manage and mitigate.*

No doubt they need our assistance!

Local communities are most concerned with:



- safety issues
- possible effects nuclear power plant construction and operation may have on the environment.

It is vital to raise public awareness and acceptance in the local communities via transparent and convincing information campaigns.

Advantages, that a large-scale NPP project has on the local economies

- local industry development new jobs creation;
- higher education development;
- better investment climate;
- etc.

Possible effects on the environment:

It is argued that nuclear energy can be extremely hazardous to the environment **BUT** nuclear power **does not emit GHG and other major pollutants.**

Nuclear energy can be a **green alternative** to fossil fuels and even natural gas that is universally considered to be an eco-friendly source of energy.

Most of the concerns expressed by the **local communities** are shared by **national governments**, which have decided to undertake nuclear power program implementation.

However, the range of topics in question is also much broader and covers such areas as:

- project investment feasibility;
- industrial involvement;
- electricity market and infrastructure developments;
- capacity management;
- security of supply;
- large capital costs of NPP projects, which constitute a dramatic burden on national budget.



Interface with NEPIOs

- NEPIOs are always in need for an **experienced advice** in nuclear energy programs development.
- NEPIOs as the main driver of first nuclear projects should be the **focal point** in transmitting nuclear power utilization advantages.

Interface with utilities

- Energy companies embarking on a nuclear program along with many challenging tasks will have to make their choice on best **nuclear project implementation model**.
- **Each newcomer country must have a clear picture of potential models for project implementation with risks assessed and all scenarios described.**