



ROSATOM

State atomic energy corporation "Rosatom"

Nuclear infrastructure development – countries social elevator

Sochi

16 April 2019

Path to nuclear: bridging the gaps

Multiple steps

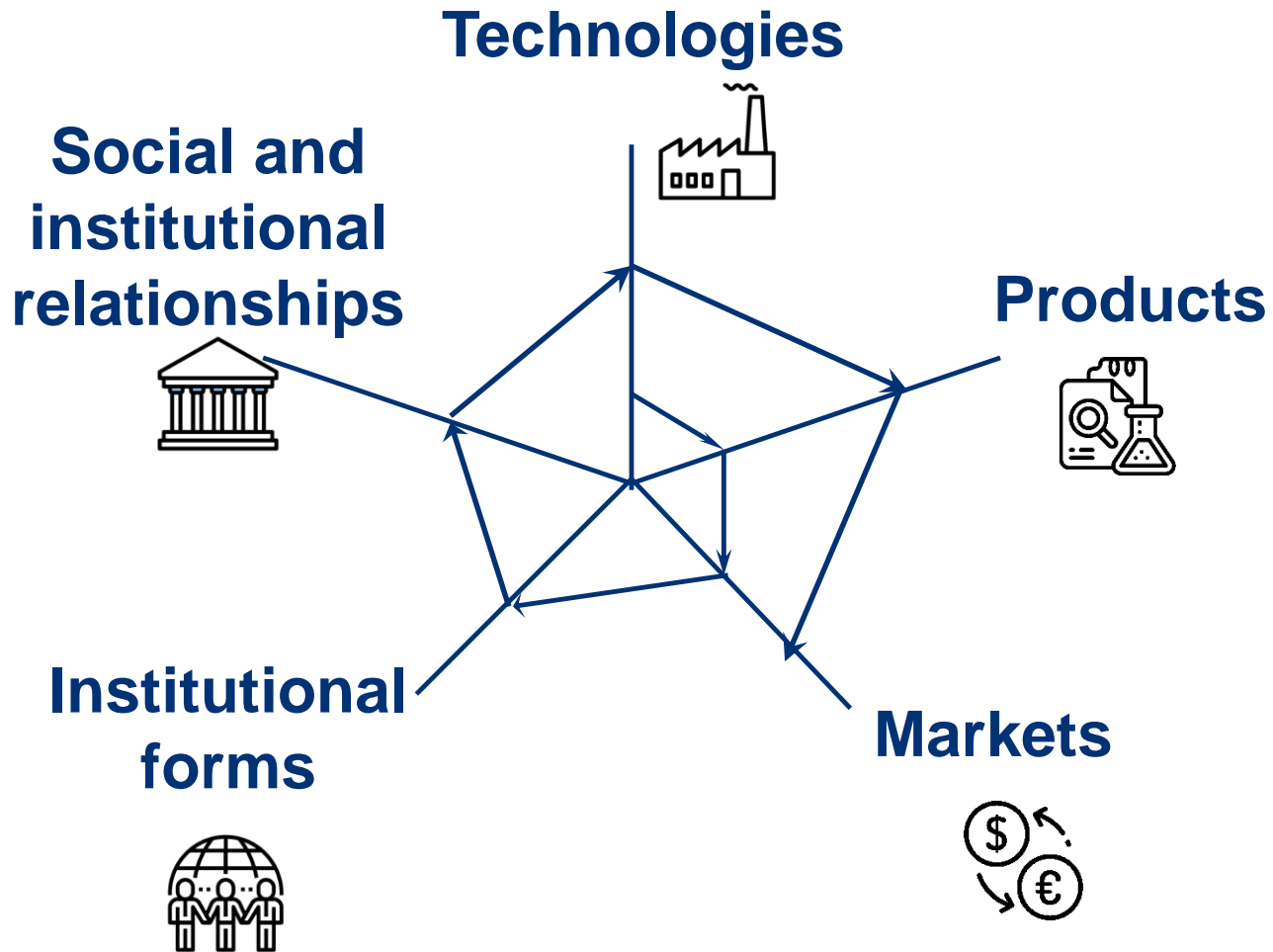
Diverse spin-off

Numerous stakeholders

Gaps



Let's go nuclearized



New nuclear = new economic paradigm

- Self reinforcing loops of new economic relationships development
- New social relations → Innovations (technological, managerial) → new markets → new products and spin-offs

2-units NPP implies for a country...

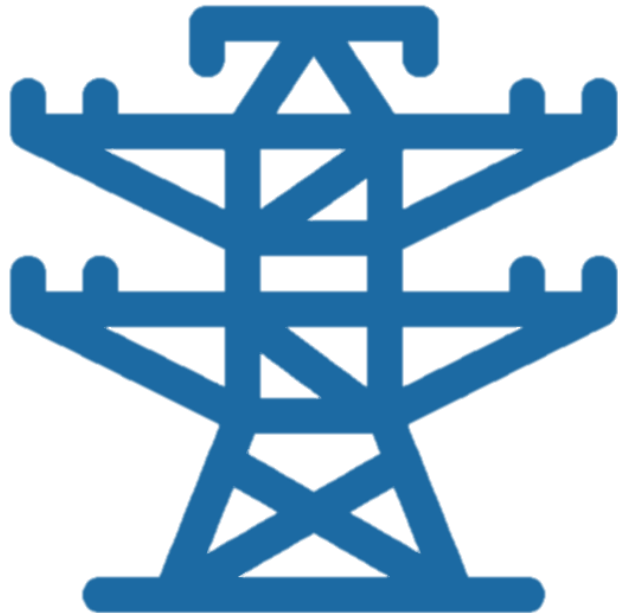
#1



- Up to 400 students studying nuclear professions at Russian universities
- Up to 2000 highly qualified Operation & Maintenance employee trained

2-units NPP implies for a country...

#2



- ~15-25 billion kWh of electric power annually produced
- ~1 200 billion kWh of electric power produced throughout 60+ operation life **at stable predictable cost**
- Low system cost & baseload electricity
- Universal access to affordable, reliable and modern energy services

2-units NPP implies for a country...

#3 



Ecofriendly

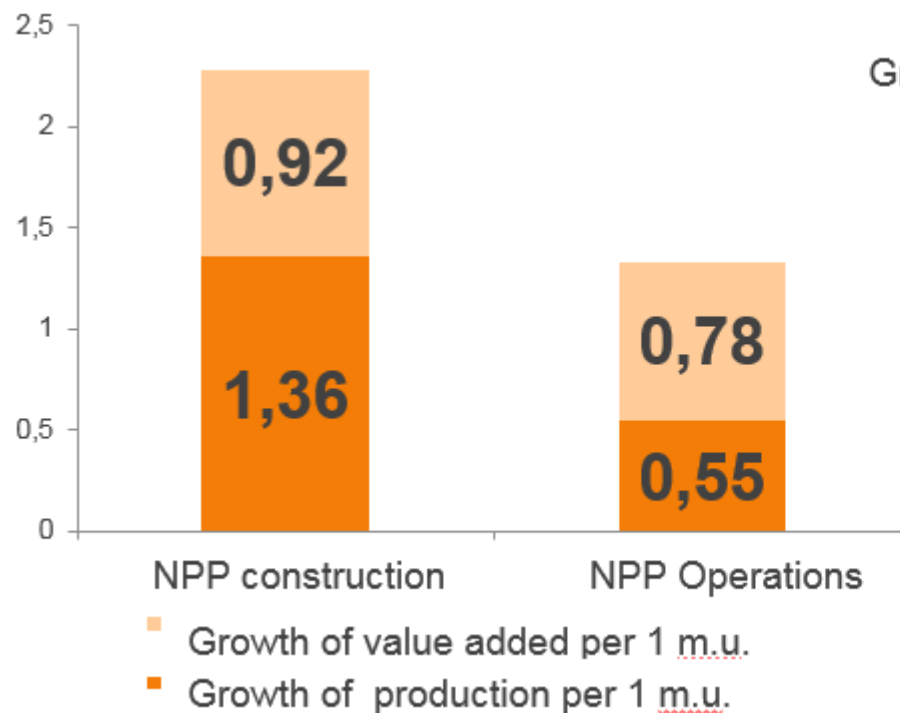
- 15 000 CO₂ megatons not emitted (= 60 years of a coal plant operation)
- Access to clean energy
- Curbing GHG emissions
- Non-depletion of finite resources (gas, oil, etc.)
- Electricity production on 630 m² (2,4 GW installed capacity) = 100 000 m² solar power plant

2-units NPP implies for a country...

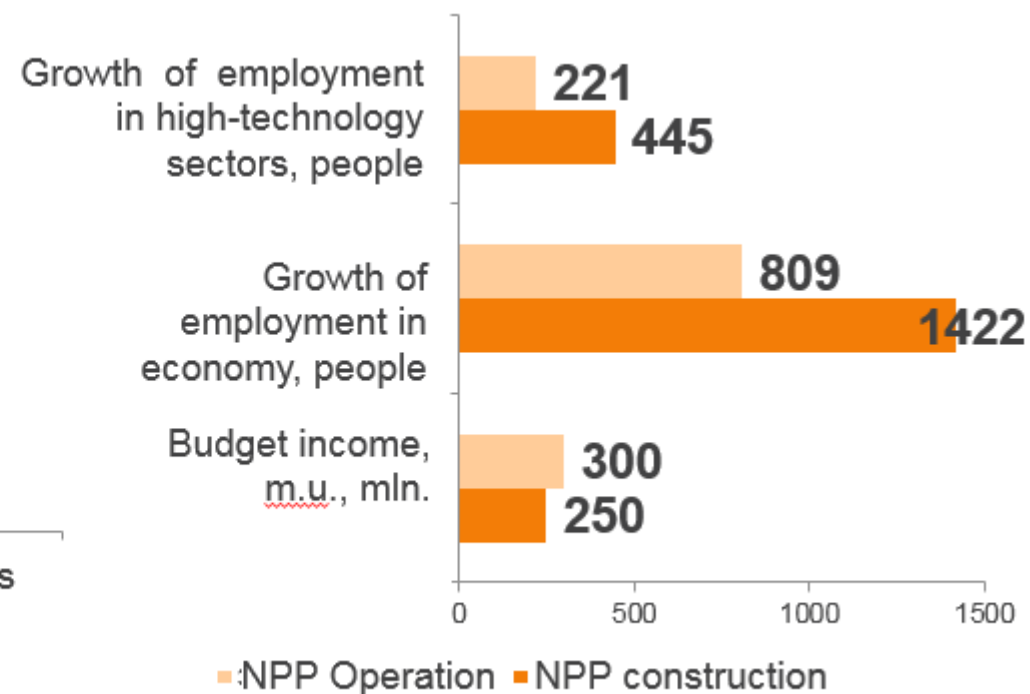
#4



A multiplier of a NPP construction and operation in Russia per 1 monetary unit (m.u.) of expenses



A multiplier of a NPP construction and operation in RF per 1 billion m.u. costs



* exact numbers depend on a project size, import share, funding structure, etc.

2-units NPP implies for a country...

#5 



19 issues of nuclear infrastructure developed (provide institutional, legal, regulating and supervisory, organizational and management, scientific and technical, financial, staff, industrial, public **support for safe and efficient nuclear energy programme implementation**)

- **New social institutes**
- **R&D Industry, New education system developed**
- **Elevated life standards**

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