



IAEA

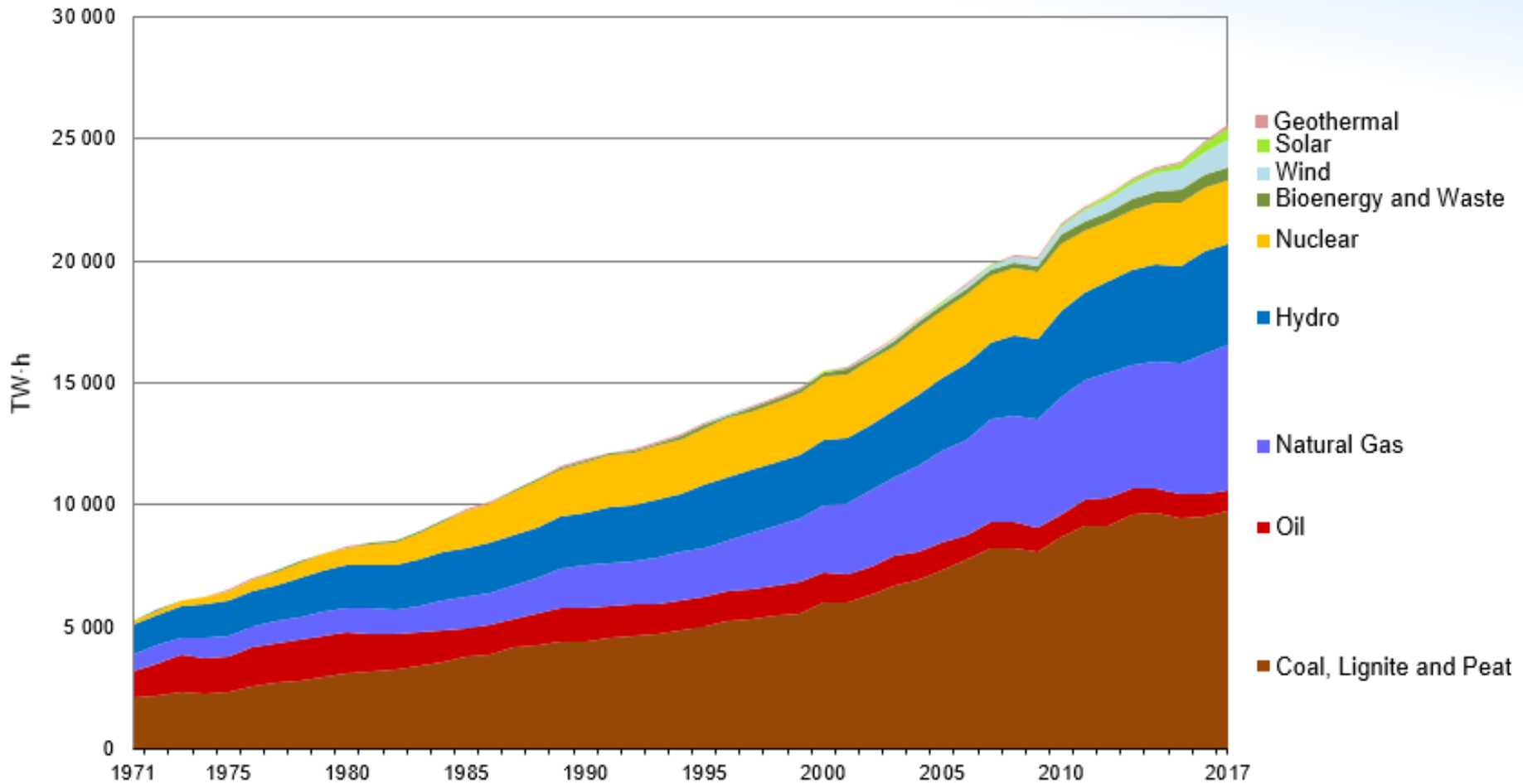
International Atomic Energy Agency
Atoms for Peace and Development

Global Status and Prospects of Nuclear Power

**Traditional International Nuclear Conference
Bulgarian Nuclear Energy – National, Regional and
World Energy Security
5-7 June 2019, Varna**

**Dohee Hahn
Director, Nuclear Power Division
International Atomic Energy Agency**

World Electricity Production by Energy Source



Source: IAEA RDS-1 2018

Global Nuclear Power Plants (May 2019)

Current Status:

452 NUCLEAR POWER REACTORS
IN OPERATION

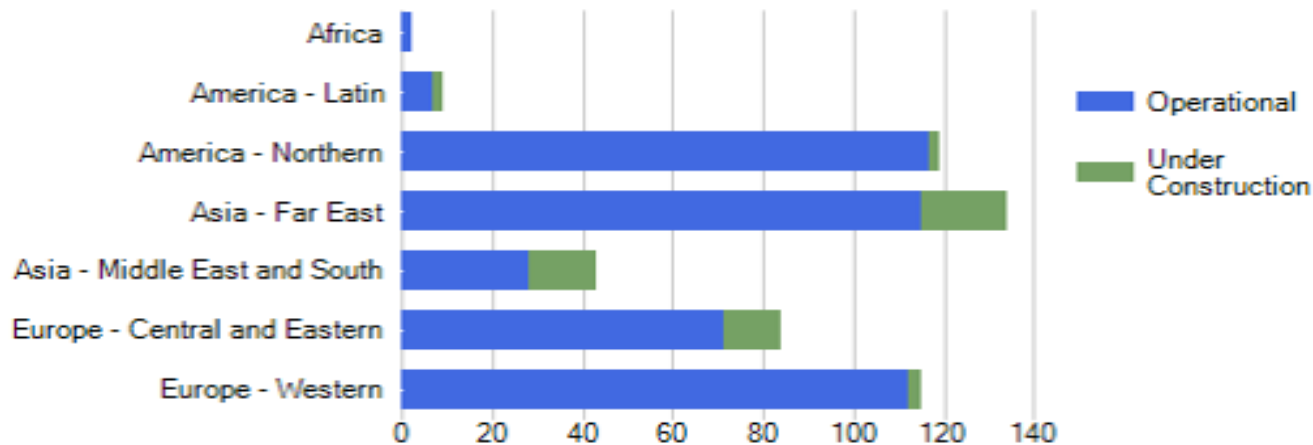
399 354 MW_e TOTAL NET INSTALLED
CAPACITY

54 NUCLEAR POWER REACTORS
UNDER CONSTRUCTION

55 364 MW_e TOTAL NET INSTALLED
CAPACITY

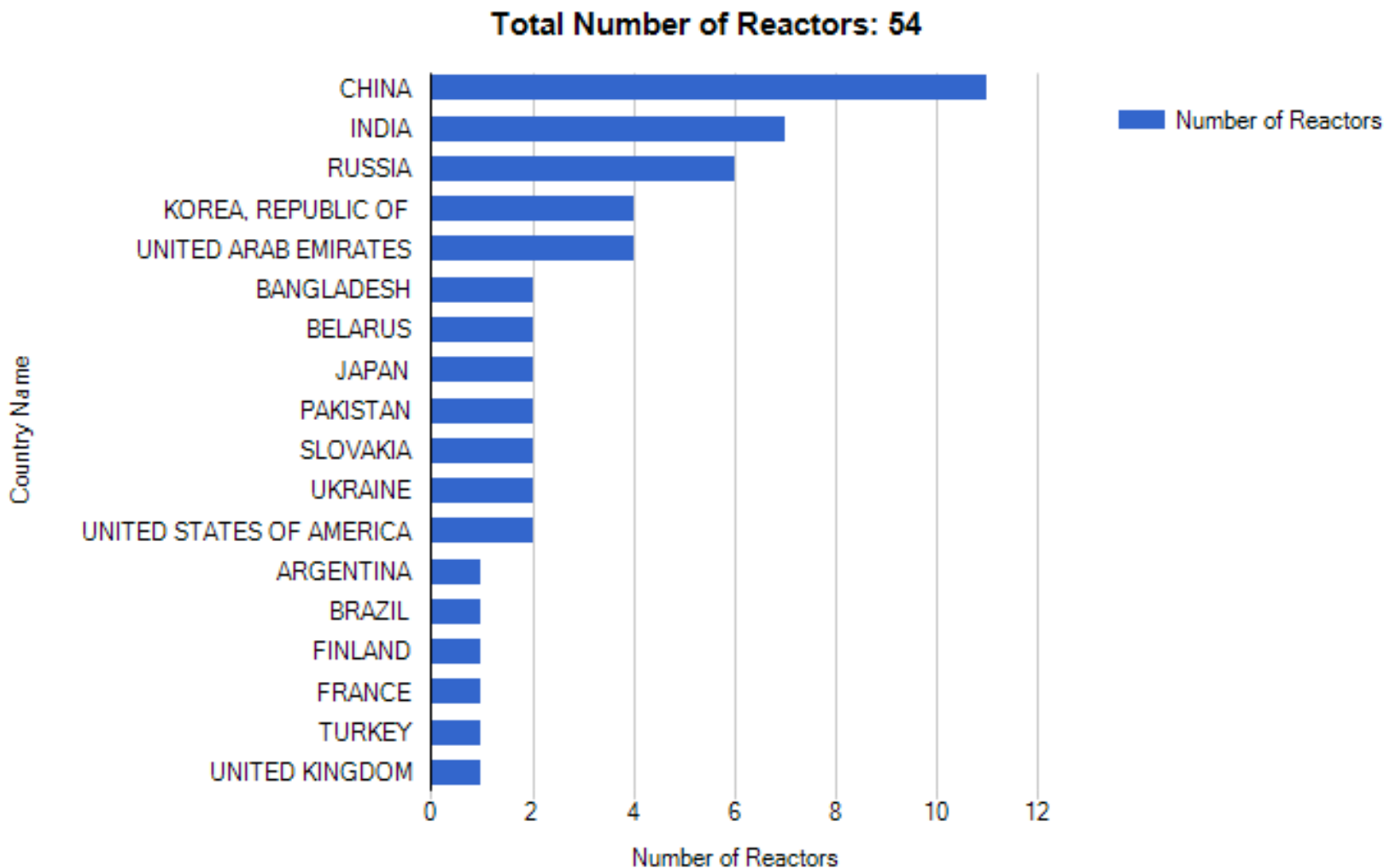
18 047 REACTOR-YEARS OF
OPERATION

Regional Distribution of Nuclear Power Plants



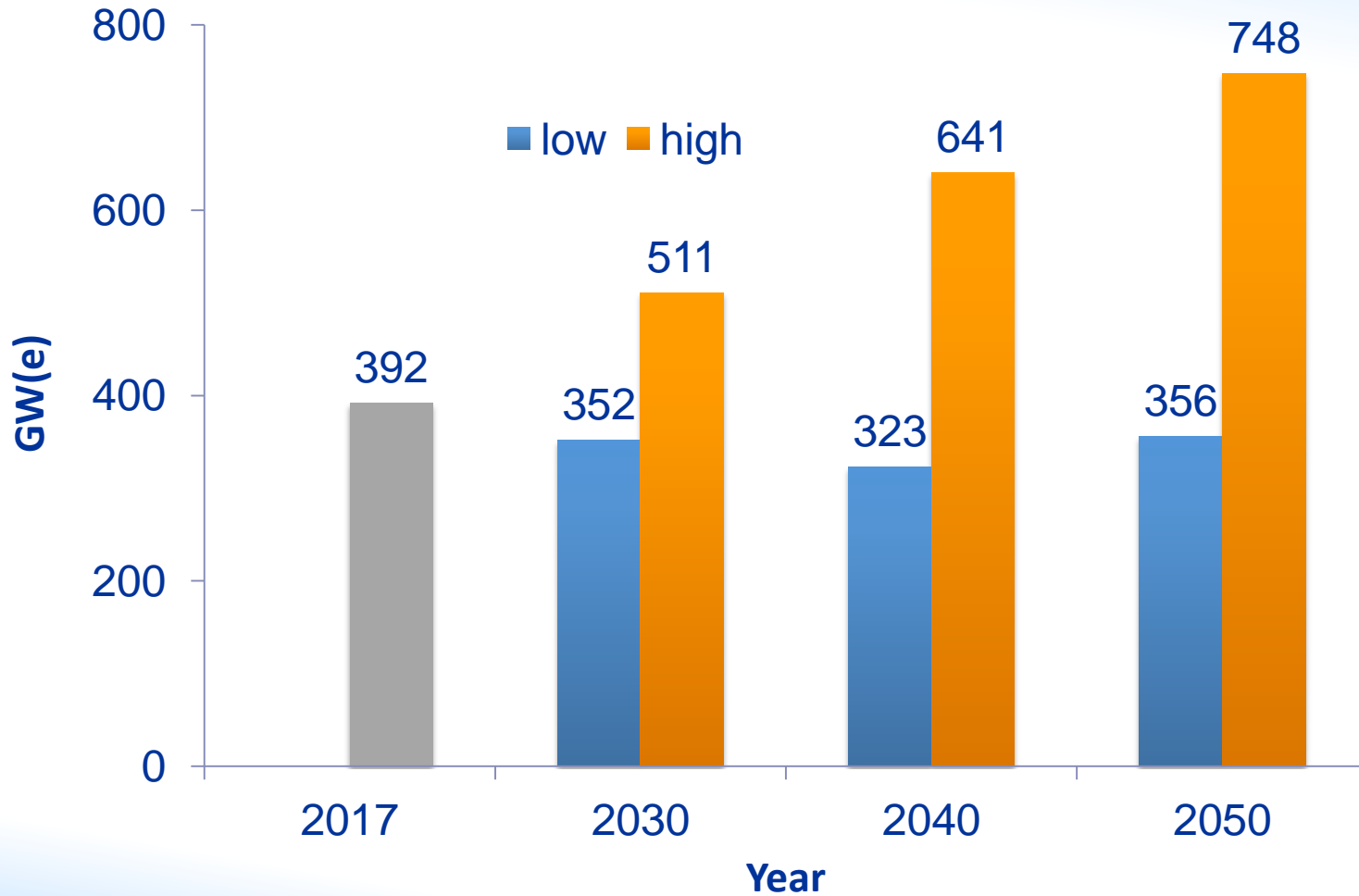
Source: IAEA Power Reactor Information System (PRIS)

Reactors under construction (May 2019)



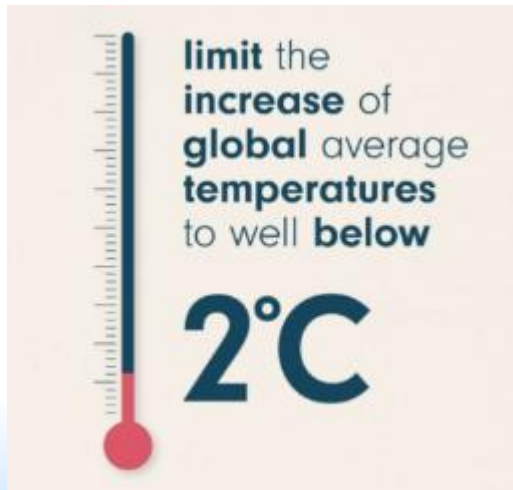
Source: IAEA Power Reactor Information System (PRIS)

Global Nuclear Power Projections



Source: IAEA RDS-1 2018

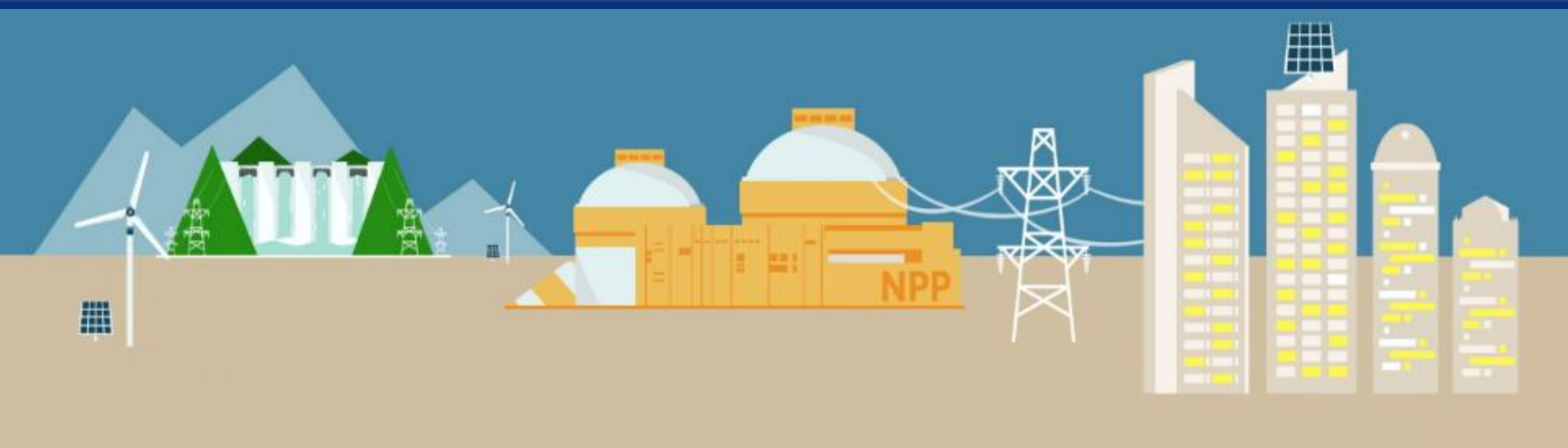
UN SDGs & Climate Change



Low carbon mix

“...without significant progress on using the full potential of nuclear power, it will be difficult for the world to secure sufficient energy to achieve sustainable development and to mitigate climate change.”

Yukiya Amano, IAEA Director General



Influential Factors

1 Safety

2 Funding & Financing

3 Electricity Markets & Nuclear Policies

4 Innovation: Advanced Reactors & Fuel Cycles

5 Waste Management

6 Capacity Building

7 Public Acceptance



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Thank you!

