

Welcome from the International Atomic Energy Agency

Janos Eiler

Lyon, France, 3 October 2016



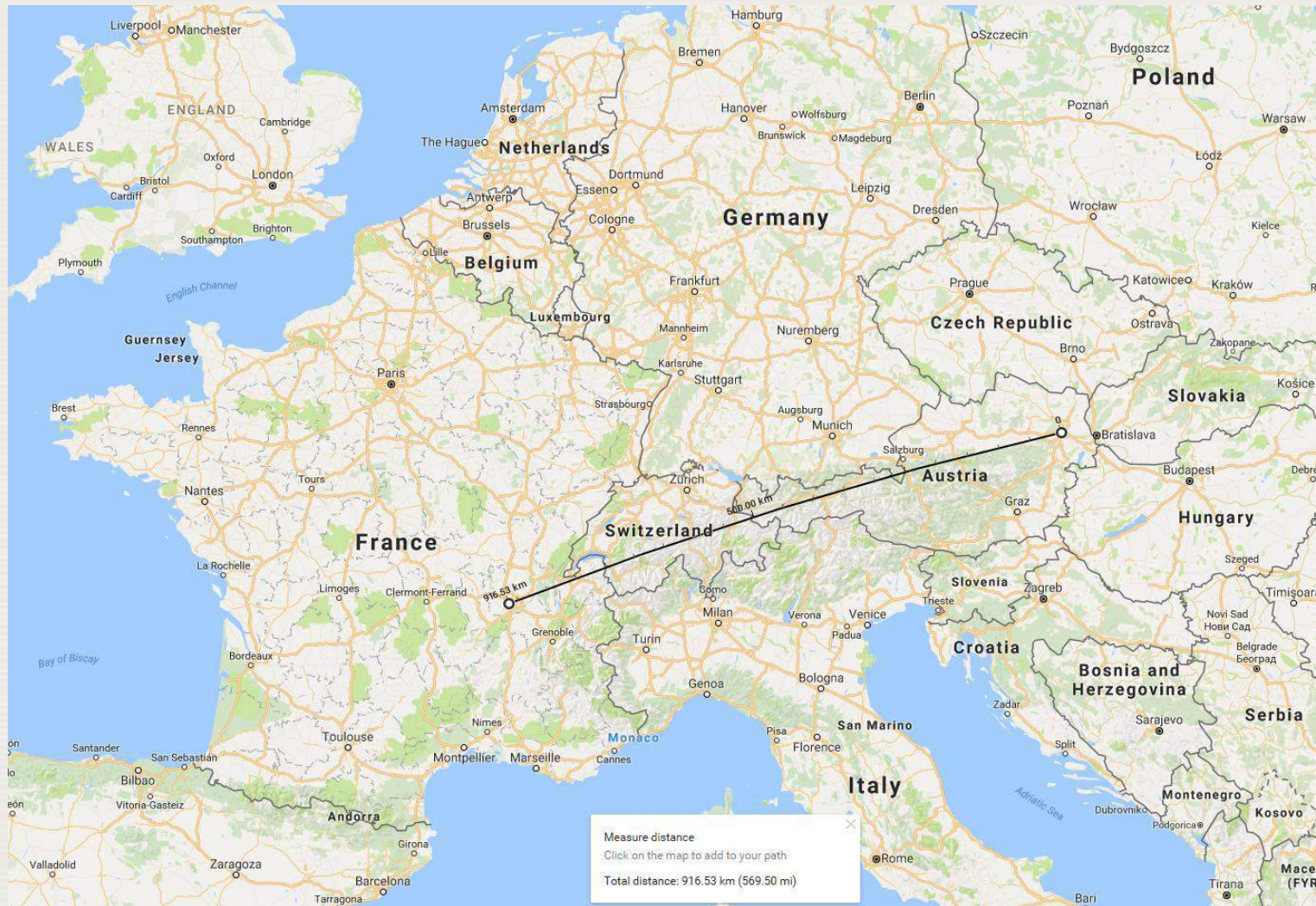
IAEA

International Atomic Energy Agency

The view of the Paks NPP

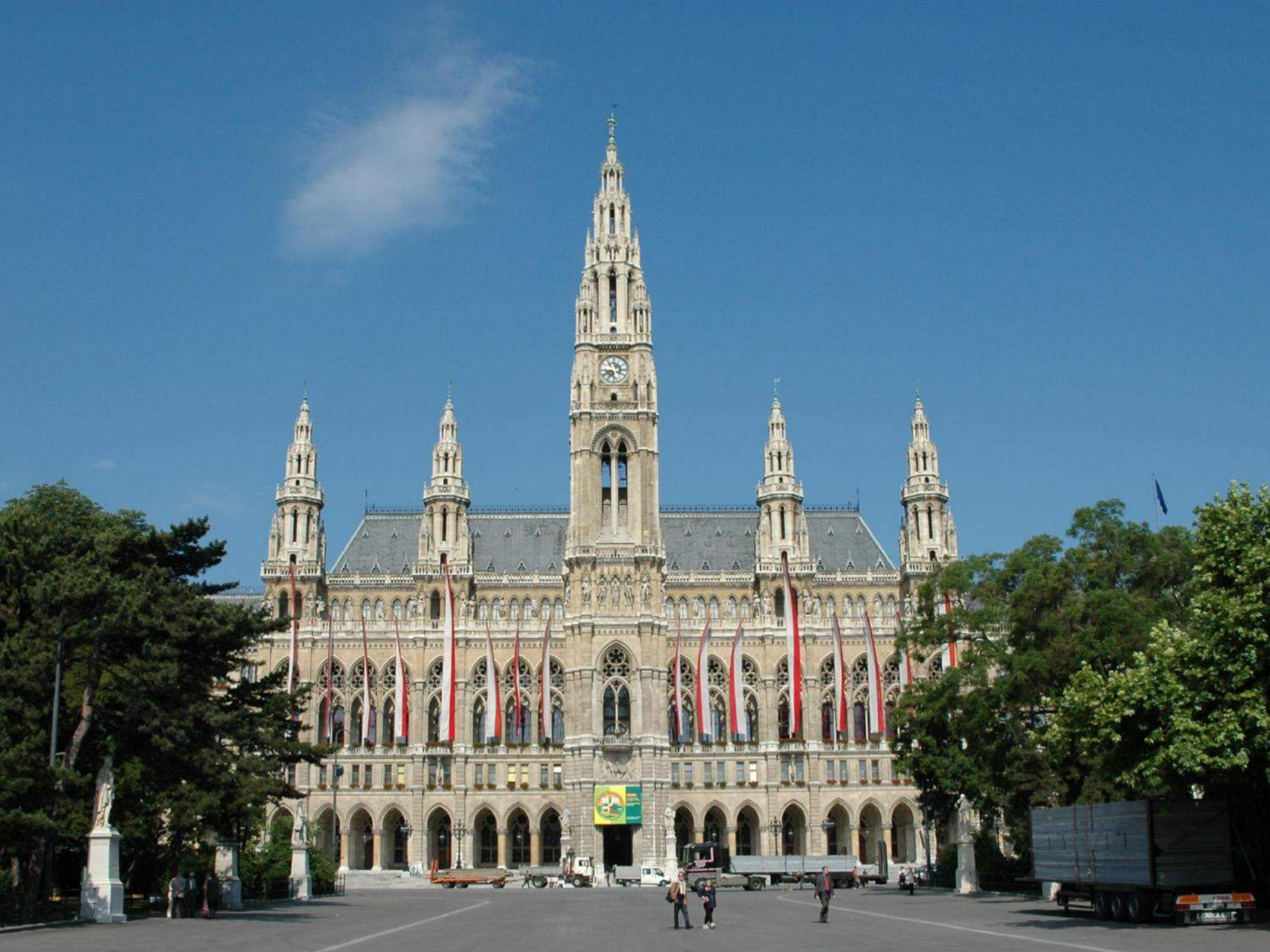


Vienna – Lyon



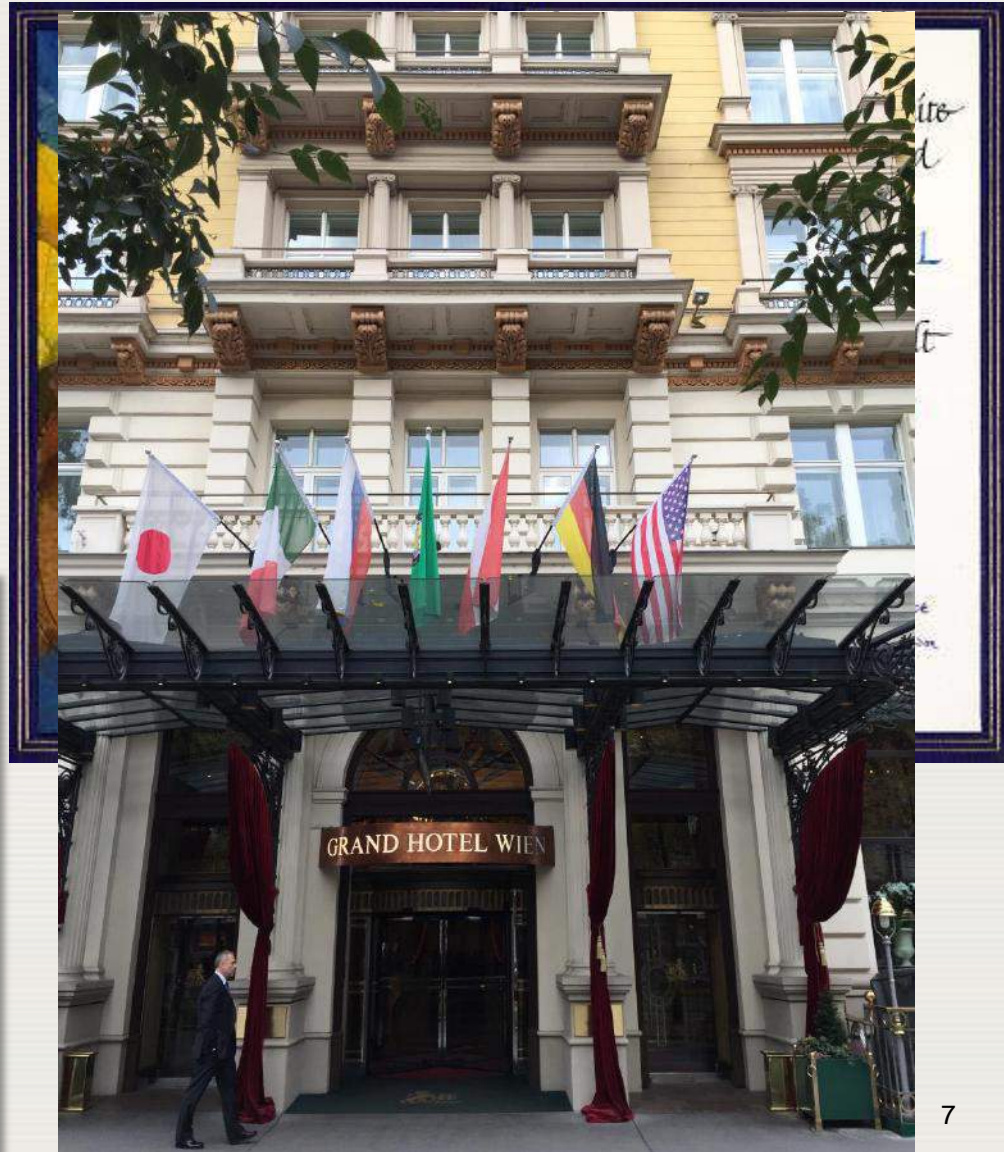






IAEA at a glance

- Founded in 1957
- 168 member states
- New member in 2016
 - Turkmenistan
- 2398 staff
- Nobel Peace Prize – 2005



Location of the IAEA

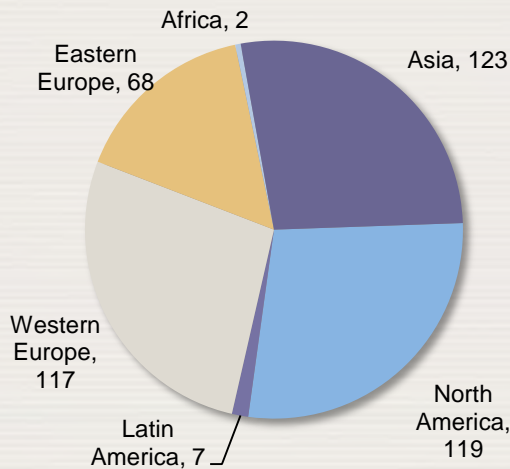


IAEA assistance to global nuclear power

- Meetings, workshops and conferences
 - Consultants' Meetings
 - Technical Meetings
 - Technical Cooperation Workshops / Training Courses / Expert missions
 - International Conferences and Symposia
 - International Expert's Meetings (new)
- Review missions
- Coordinated research projects
- Technical Cooperation (TC) projects
- Publications (standards, guidance, and other documents)
- Mobilization of international experts

Global nuclear power status

Geographical distribution



450 reactors in operation (392 GW_e)

2 reactors in long-term shutdown

157 reactors in permanent shutdown

60 reactors under construction

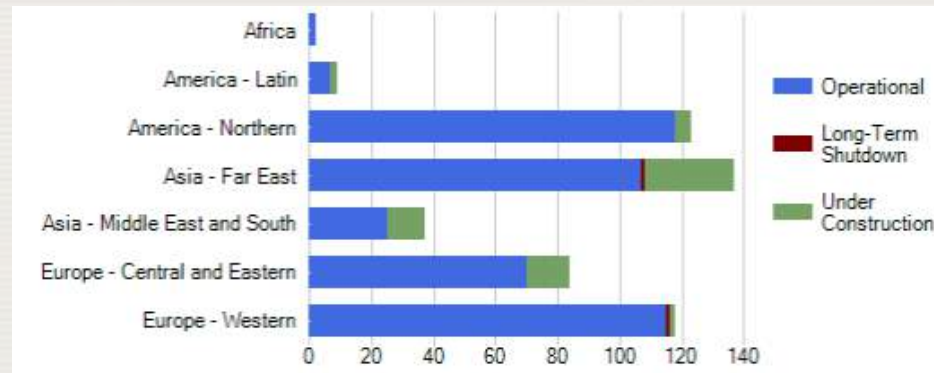
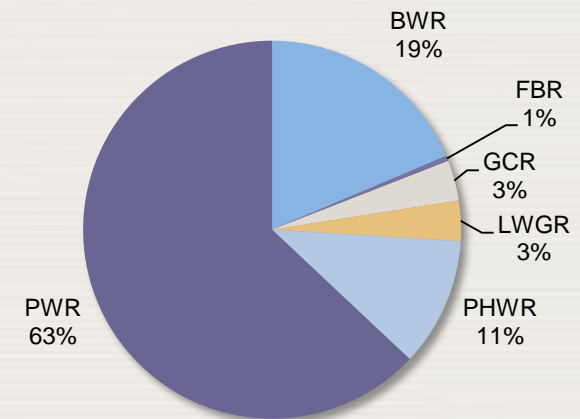
As of Sept 2016

Latest connections to the grid (2016):

- ❖ 5 PWR Units in China
- ❖ 1-1 PWR in India, Russia, Korea, and the USA
- ❖ **FUQING-3, 1000 MW(e), PWR, China, 7 September 2016**

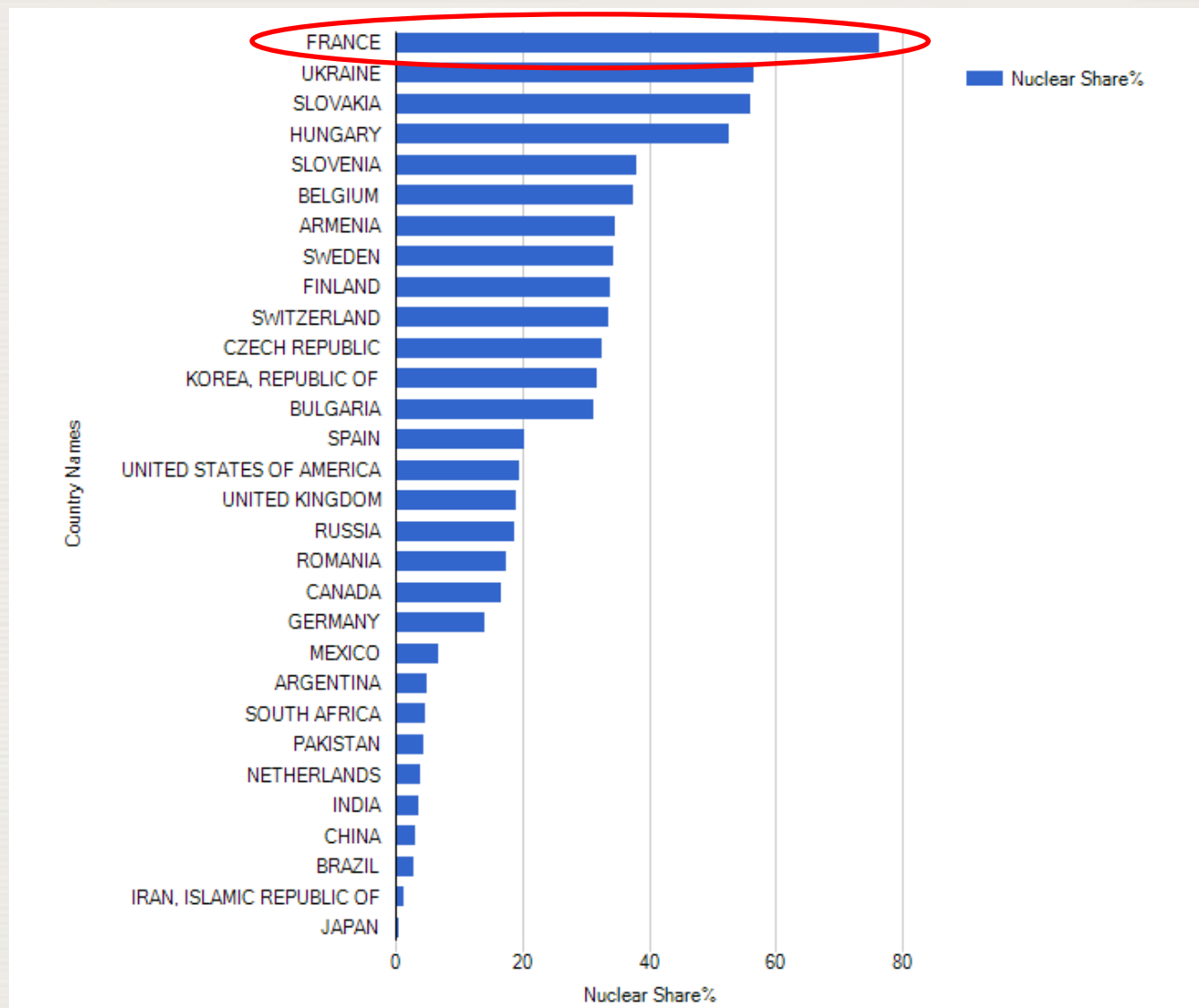
Website: <http://www.iaea.org/pris/>

Reactor capacity by type

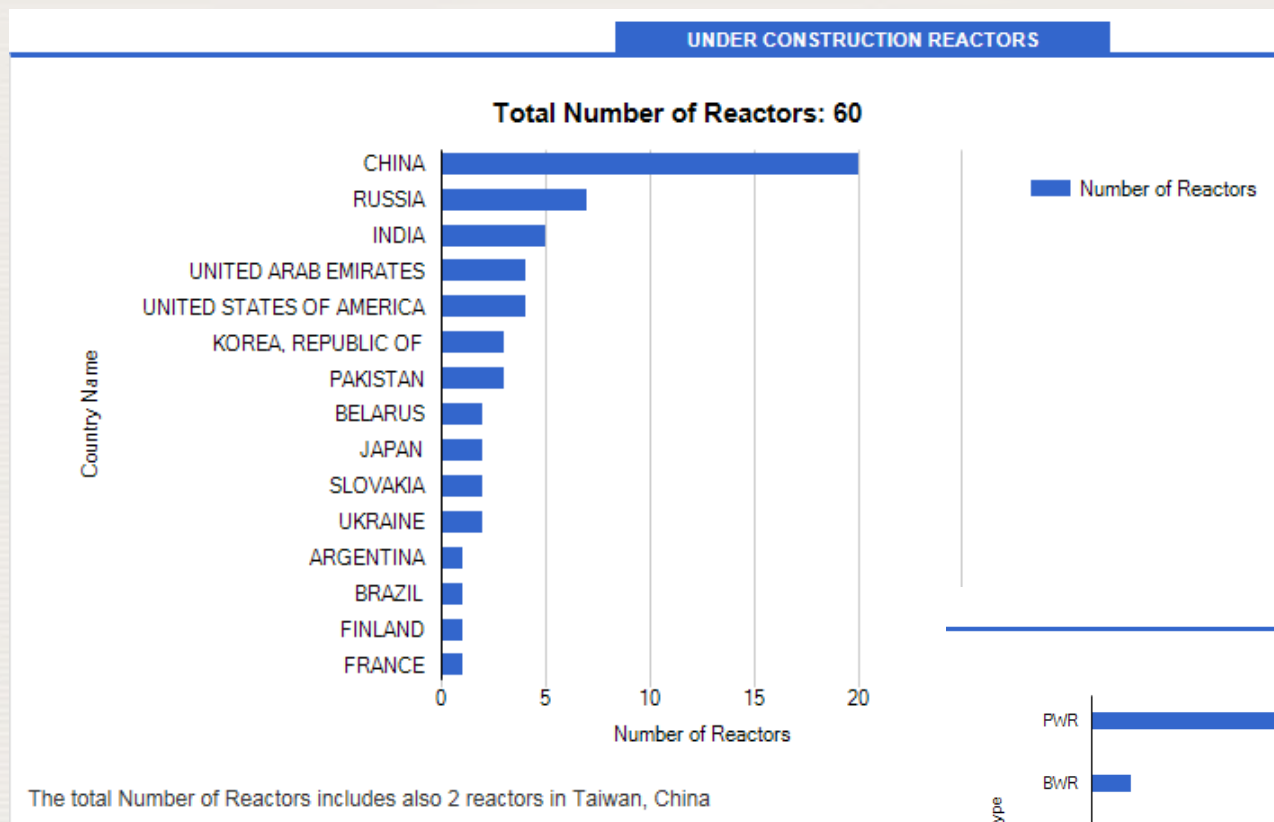


Regional Distribution of Nuclear Power Plants

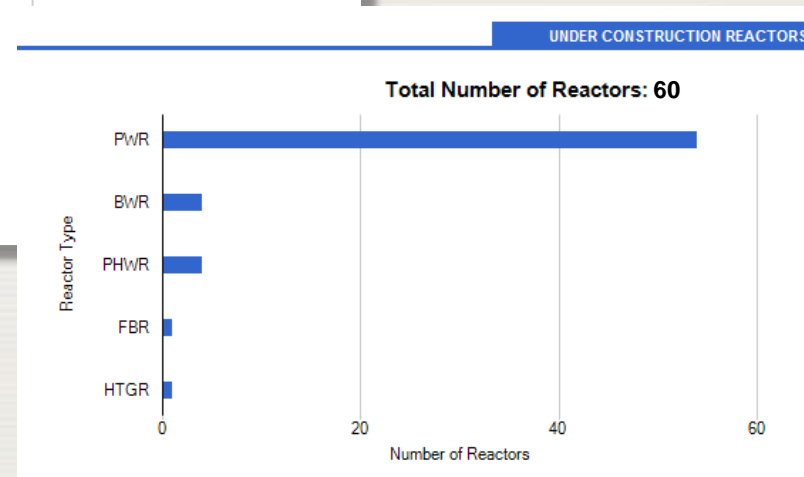
Nuclear share of electricity generation in 2015



Reactors under construction in the world



As of Sept 2016



Status in France

- Electricity production share in 2015: 76.34% nuclear



France

SUMMARY

Nuclear Power Reactors

Under Construction	Operational	Long-Term Shutdown	Permanent Shutdown
1	58	0	12

Annual Electrical Power Production

Total Electricity Production (including Nuclear)

546000.00 GW.h

(Net, 2015)

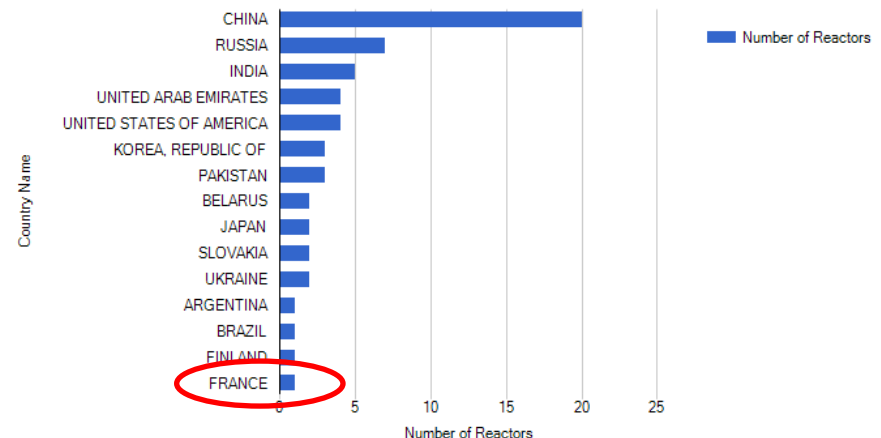
Nuclear Electricity Production

416800.00 GW.h

(Net, 2015)

UNDER CONSTRUCTION REACTORS

Total Number of Reactors: 60

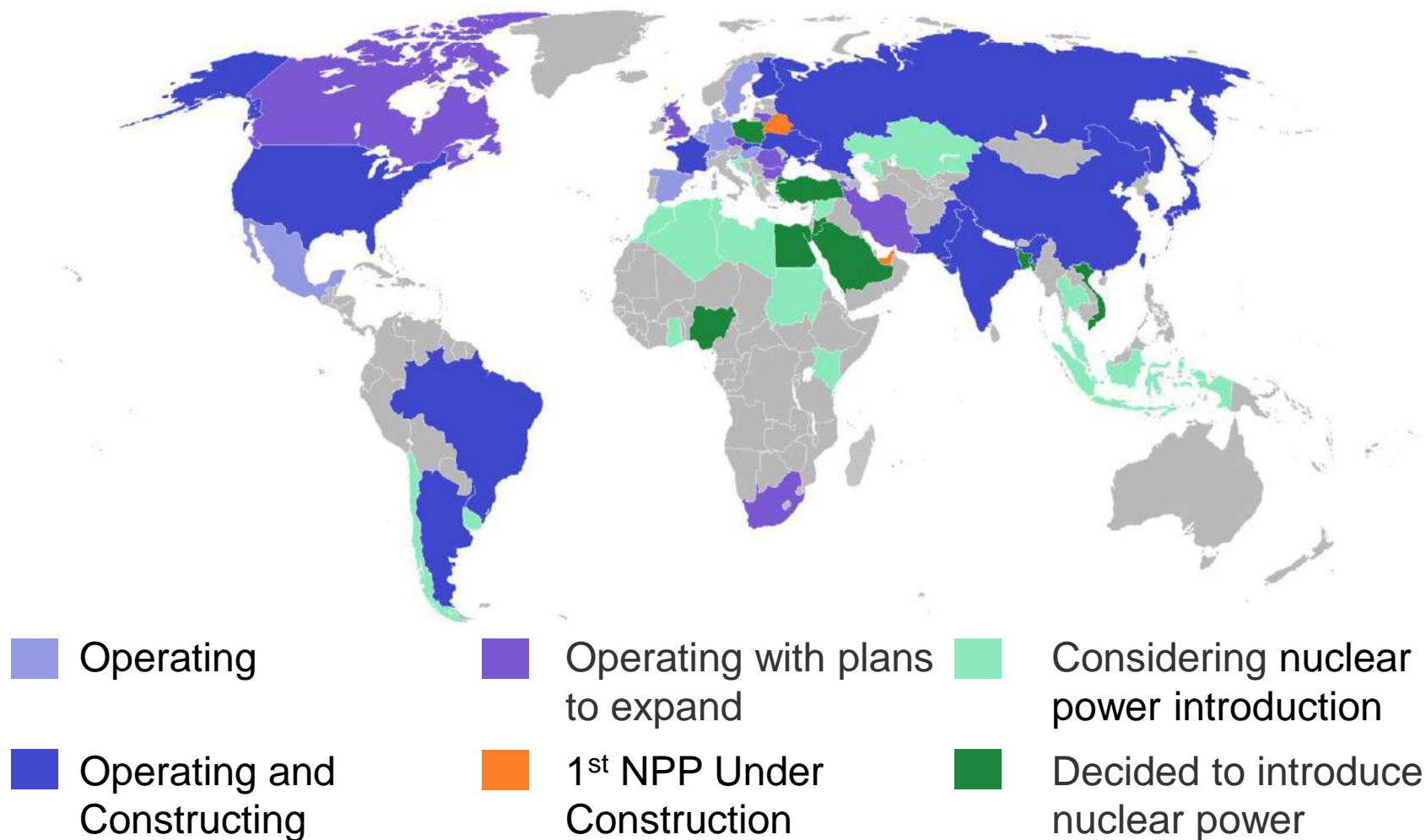


As of October 2015



The total Number of Reactors includes also 2 reactors in Taiwan, China

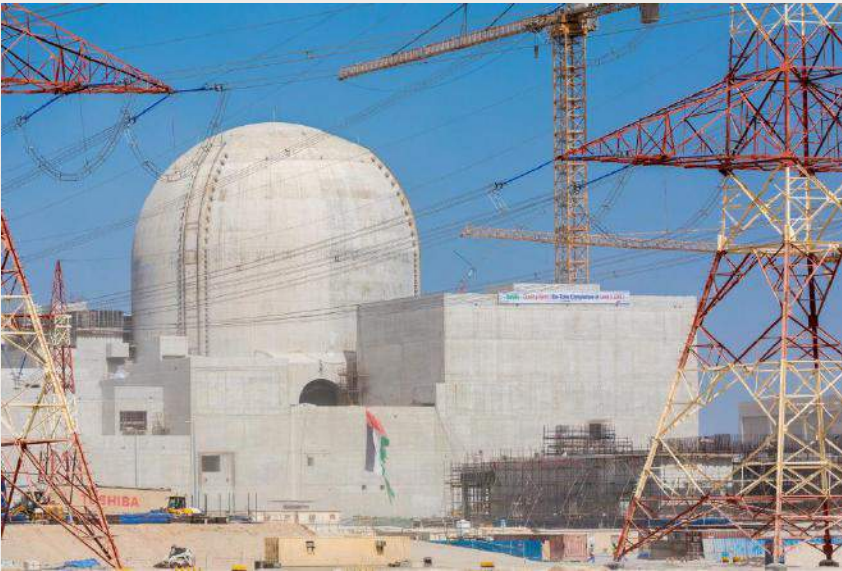
Who are the newcomers



Newcomers with 1st NPP under construction

**UAE – Unit 1, July 2012
Unit 2, May 2013**

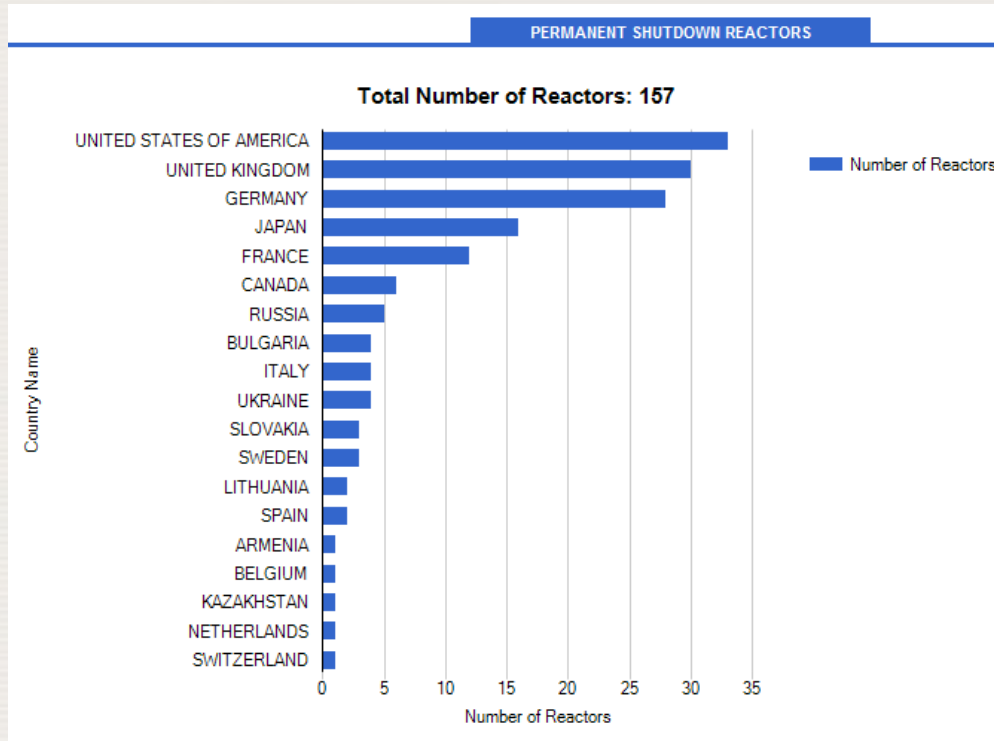
Belarus – Unit 1, Nov 2013



As many as 5 countries may have their first reactors under construction in the next 5 years

Permanent shutdowns

- 7 reactors announced early shutdown in 2015:



- Korea
 - Kori 1
- Sweden
 - Ringhals 1&2
 - Oskarshamn 1&2
- USA
 - Pilgrim
 - Fitz Patrick

Mainly economic reasons

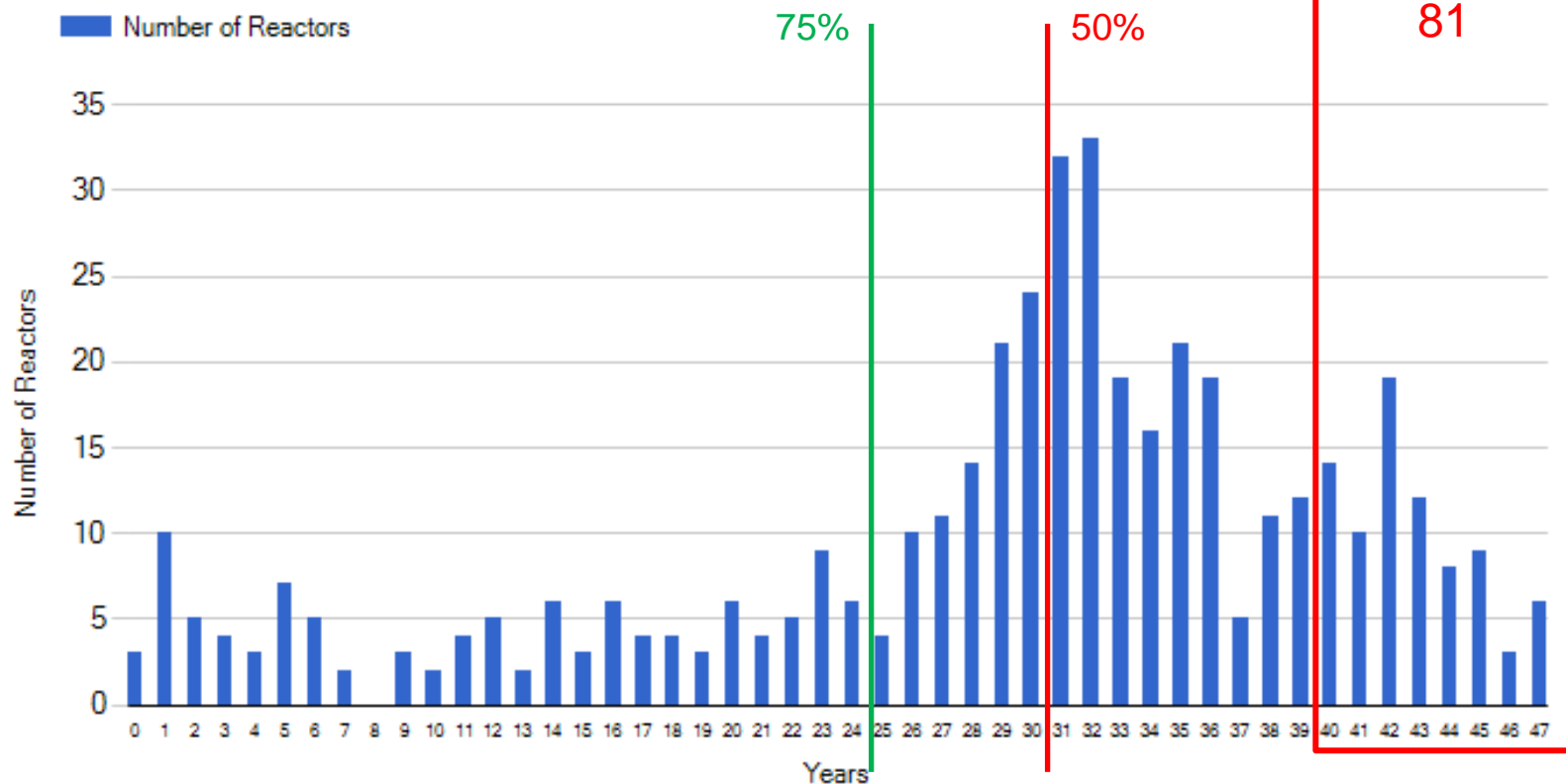


Decommissioning & dismantling

Age of operating reactors

OPERATIONAL REACTORS BY AGE

Total Number of Reactors: 444



The success of the FPGA workshop in 2015



Thank you for your attention!

**I wish all of you a
very successful workshop**



IAEA

International Atomic Energy Agency