

INAC2017 – INTERNATIONAL NUCLEAR ATLANTIC CONFERENCE V ENIN Belo Horizonte - MG

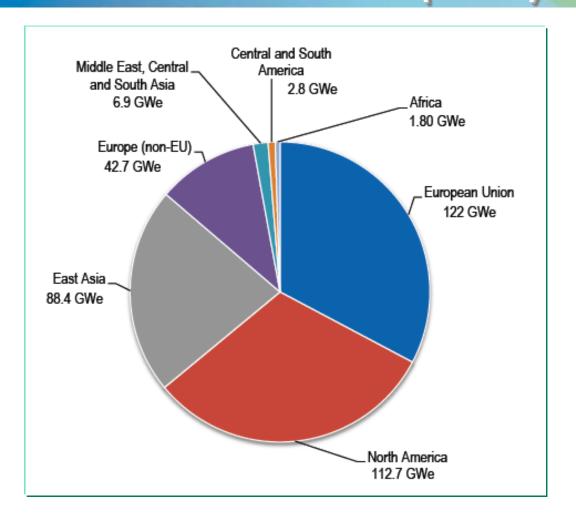
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Topics

- 1. World Nuclear Installed Capacity
- 2. World Uranium Demand
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- 5. Global Distribution Identified Resource
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World Installed Nuclear Capacity

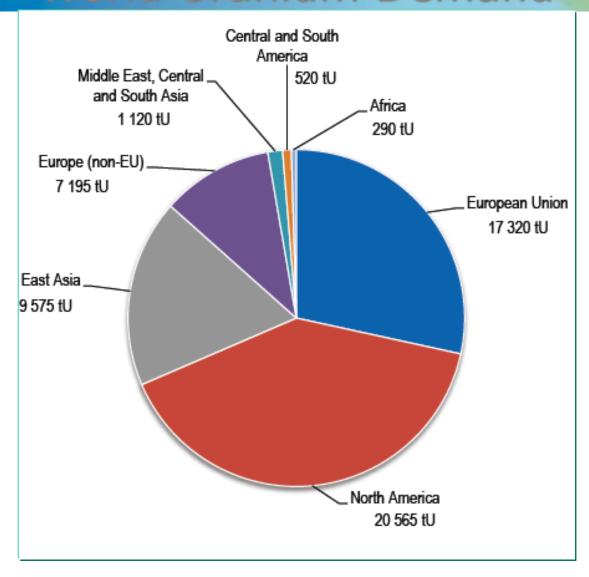




World installed nuclear capacity is 377.4 GWe, 2015

World Uranium Demand

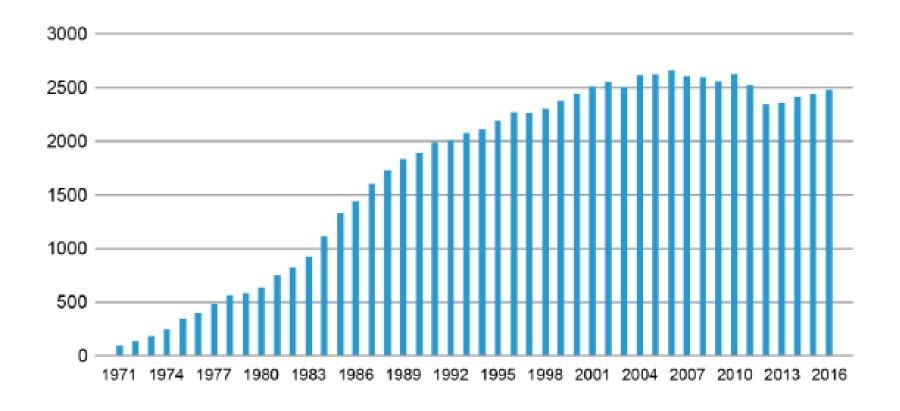




World uranium demand is 56585 tU, 2015

Word Nuclear Energy Production



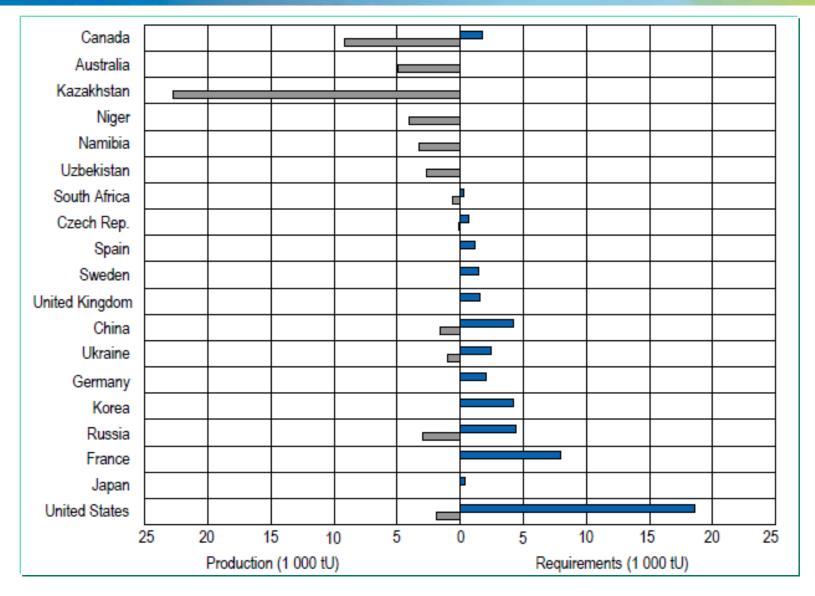


Word Nuclear Eletricity Production, TWh

Source: IAEA

Uranium Production and Reactor-Related Demand





Secondary Source of Uranium Supply



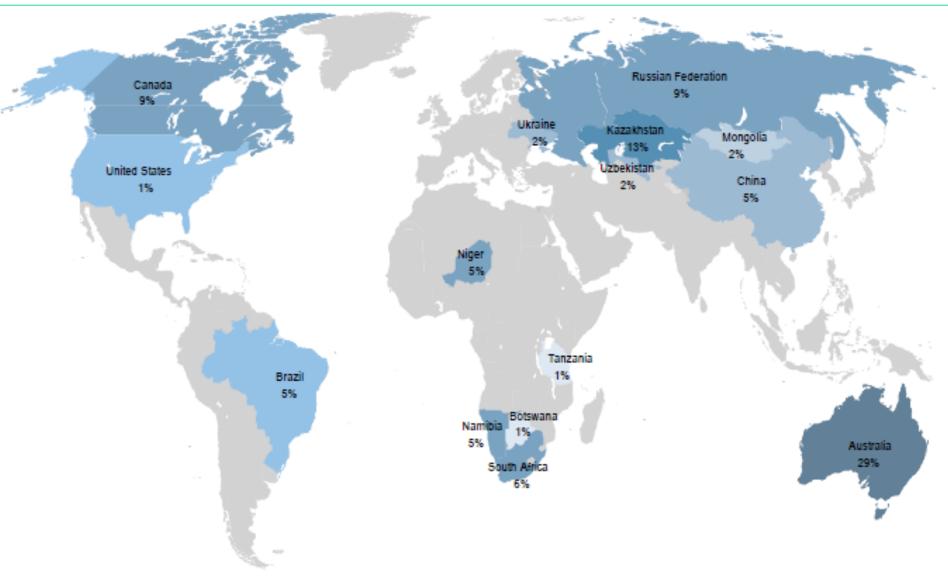
The Secondary Sources

- Stocks and inventories of natural and enriched uranium
- Nuclear fuel from reprocessing of spent reactor fuels and from surplus military plutonium and uranium
- Re-enrichement of depleted uranium

The primary uranium production volumes have been below world uranium demand during the same period, due the secondary source availability

Global Distribution of Identified Resource





15 Major Uranium Resource



Australia	29%
Kazakhstan	13%
Canada	9%
Russia	9%
South Africa	6%
Niger	5%
Namibia	5%
Brazil	5%
China	5%
Uzbekistam	2%
Mongolia	2%
Ukraine	2%
USA	1%
Tanzania	1%

World Uranium Production by Company

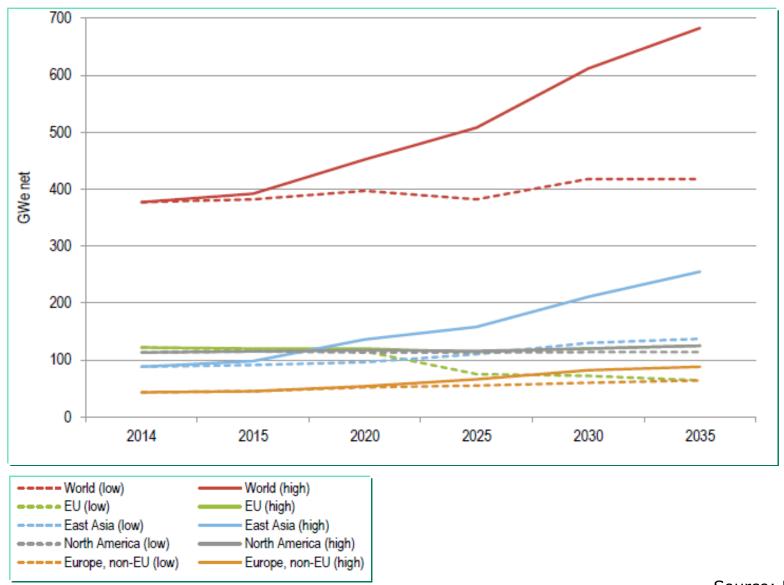


Producer	tonnes U	% of World
Kazatomprom	12,986	21%
Cameco	10,438	17%
AREVA	8,433	14%
ARMZ/Uranium One	7,913	13%
BHP Billiton	3,233	5%
CNNC/CGN	2,672	4%
Rio Tinto Uranium	2,440	4%
Navoi Mining	2,404	4%
Energy Asia	2,308	4%
Paladin Energy	1,310	2%
Sopamin	1,200	2%
General Atomics/Quasar	1,088	2%
Sumitomo	1,004	2%
Others	4,793	8%
Total	62,221	100%

Source: OCDE-NEA/IAEA, 2016

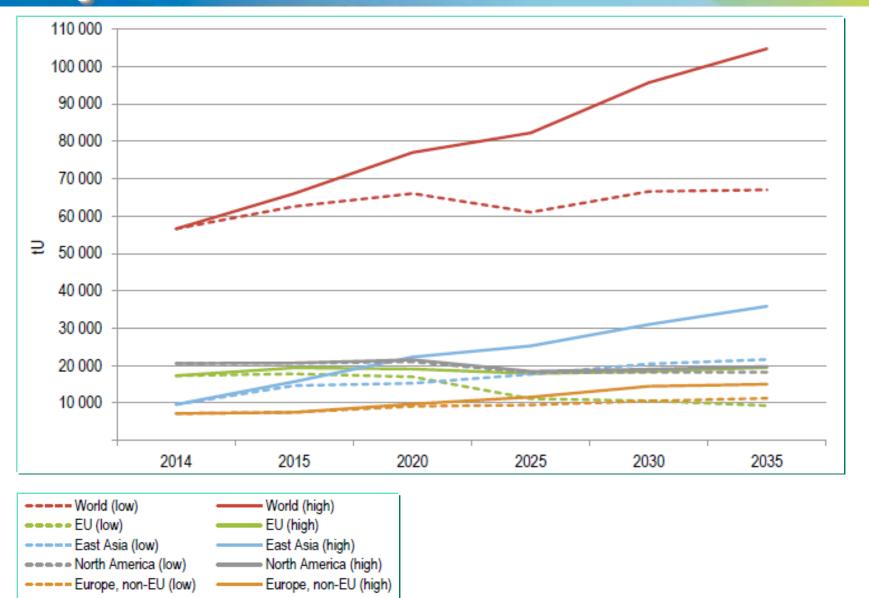
Projection of Nuclear Capacity Installed





Projection of Uranium Demand





Good News



- There are sufficient uranium resources to support continued operation of NPP and significant growth in nuclear capacity
- Assured and inferred resources are sufficient for over 135 years, considering the actual demand of 56600 tU (01/2015)
- Brazil has one of the biggest uranium resource in the World.

MUITO OBRIGADO!