

Weltweite Entwicklung der Kernenergie

Dr. Stefan Nießen

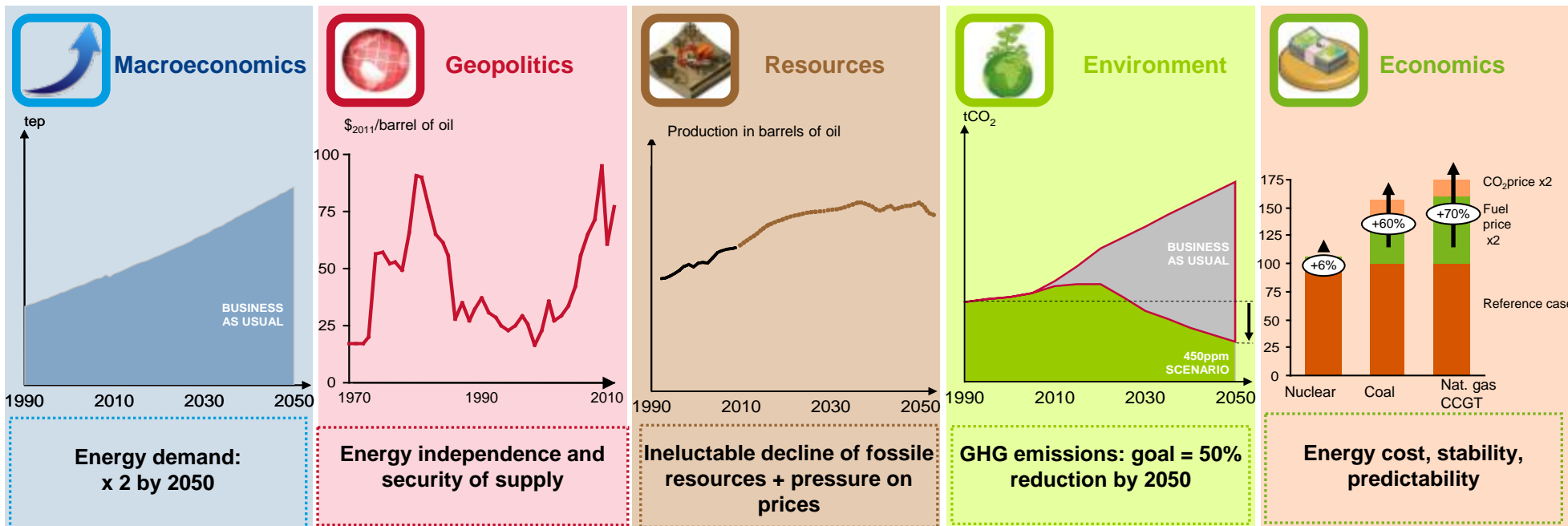
*Vice President Research, Innovation and Patent Management
AREVA GmbH*

Dresden, Kraftwerkstechnisches Kolloquium

16. Oktober, 2013



Fundamentale Entwicklungen unverändert



2011 WEO 2009–2035 « New Policies » Scenario	World primary energy demand**	+ 1.3 % / year
	World electricity demand**	+ 1,7 % / year
	Nuclear energy demand**	+ 2.1 % / year

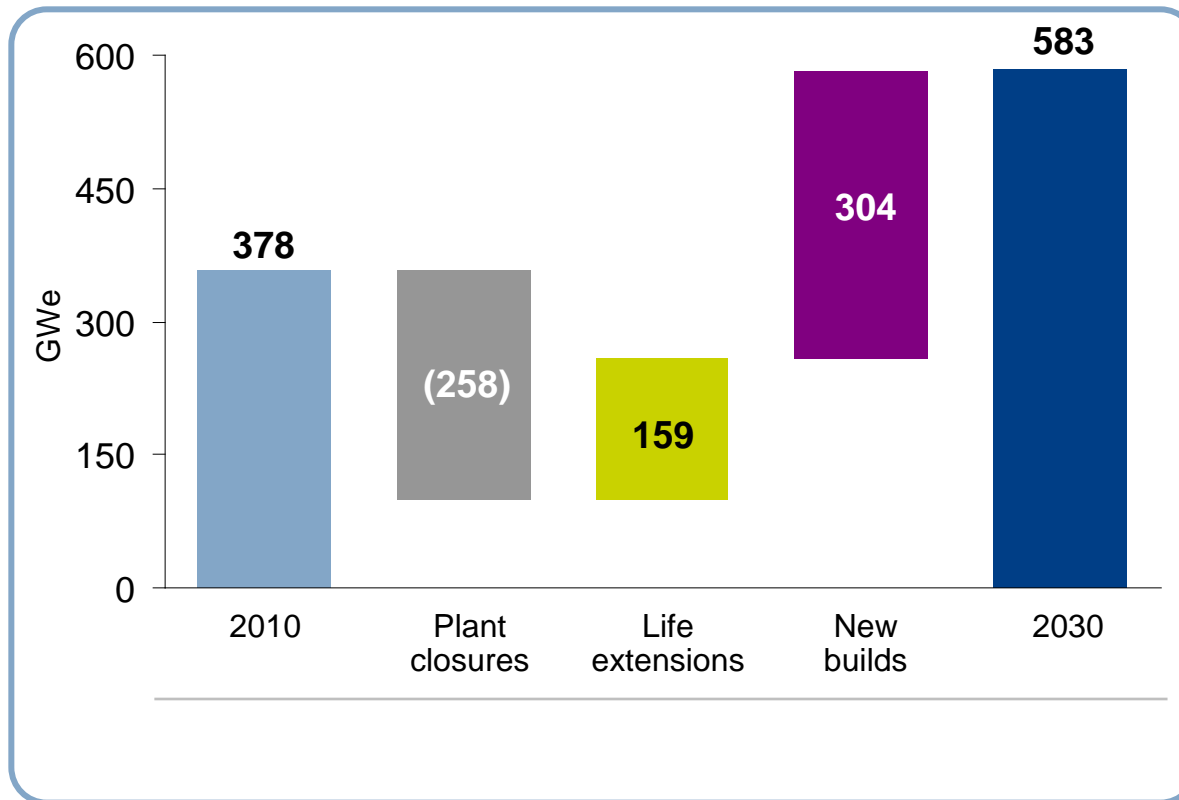
Source: IEA ETP: reference scenario 2010 - UNFCC, CERA 2009

**Average annual growth rate

Die installierte Leistung wächst weltweit

AREVA's Nuclear Scenario

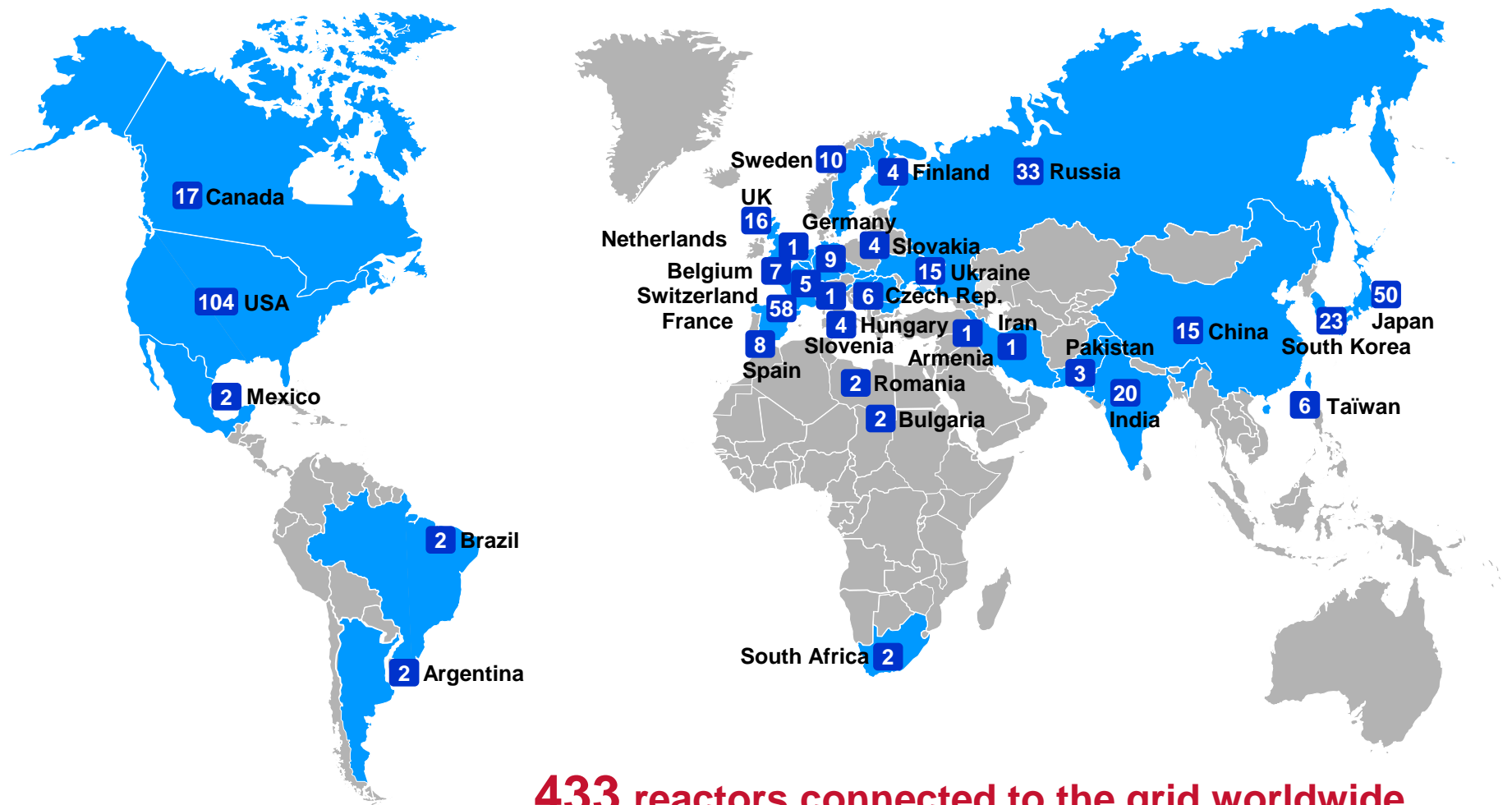
Reassessed at end of June 2011



On 27th July 2011 the IAEA Director-General Yukiya Amano said:

“Despite Fukushima Daiichi, global use of nuclear power will continue to grow in the coming decades and will remain an important option for many countries”

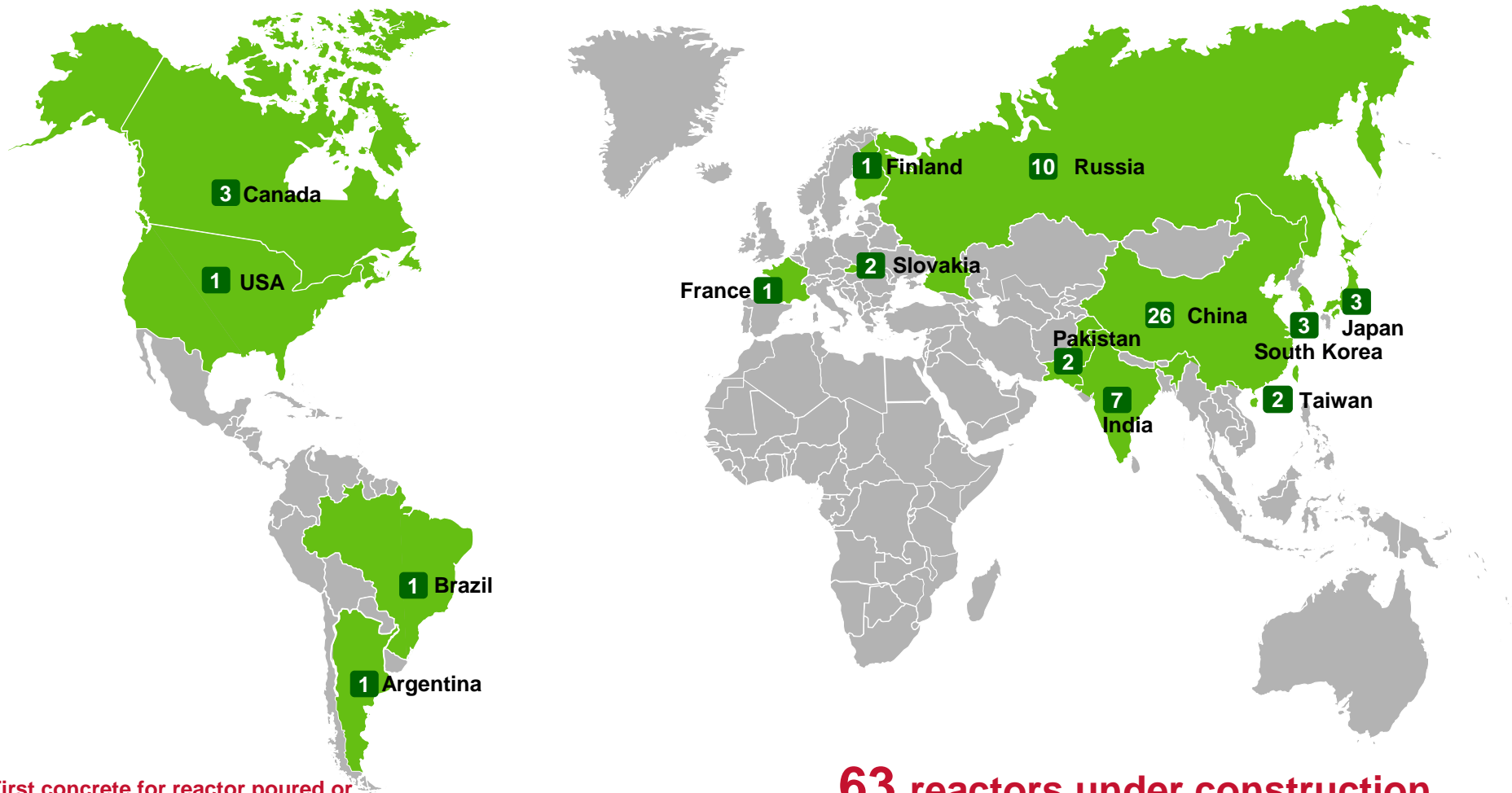
Market Overview – Reactors in Operation



433 reactors connected to the grid worldwide

Source: WNA, May 2012

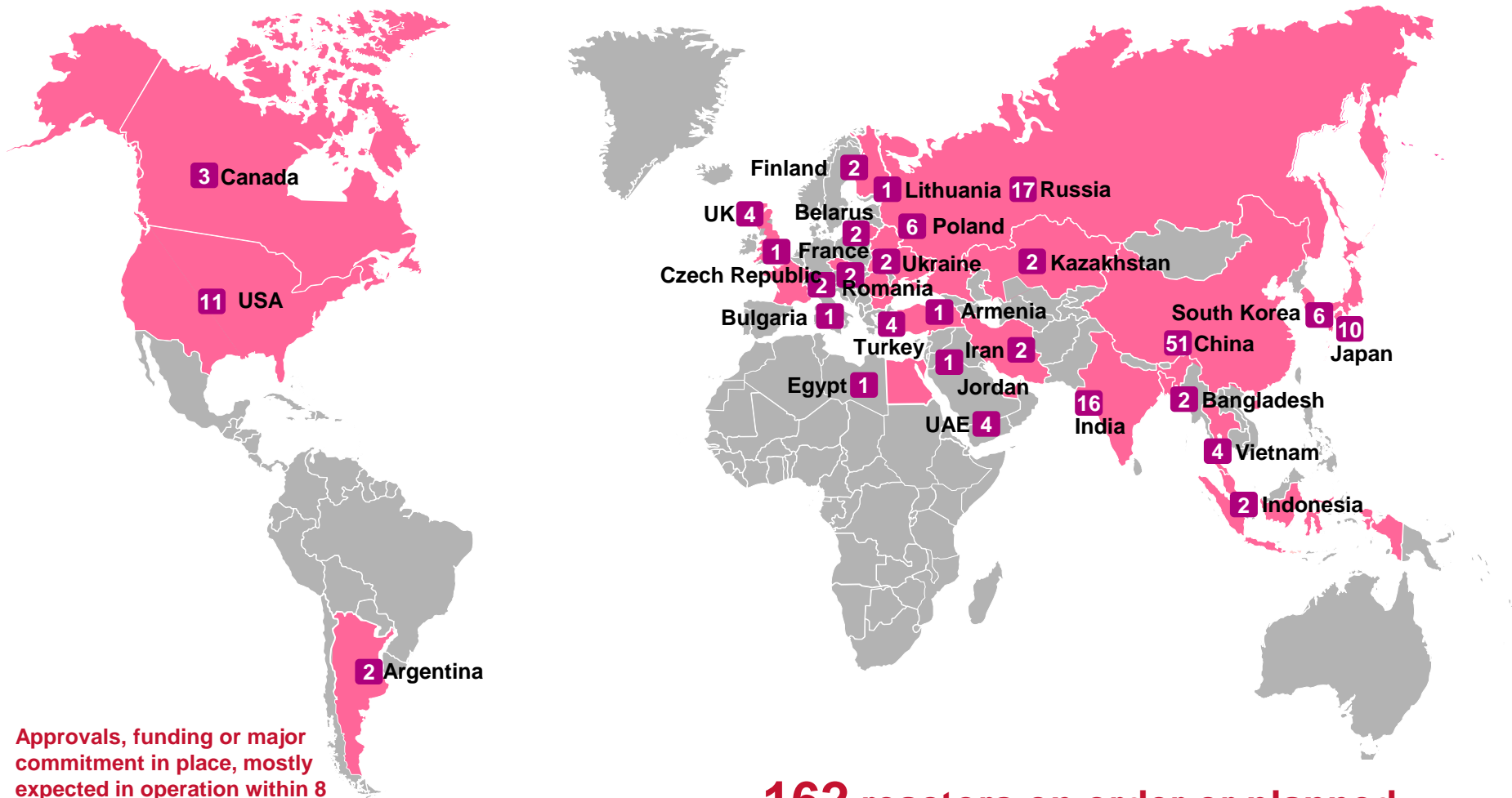
Market Overview – Reactors under construction



63 reactors under construction

First concrete for reactor poured or
major refurbishment under way;
Source: WNA, May 2012

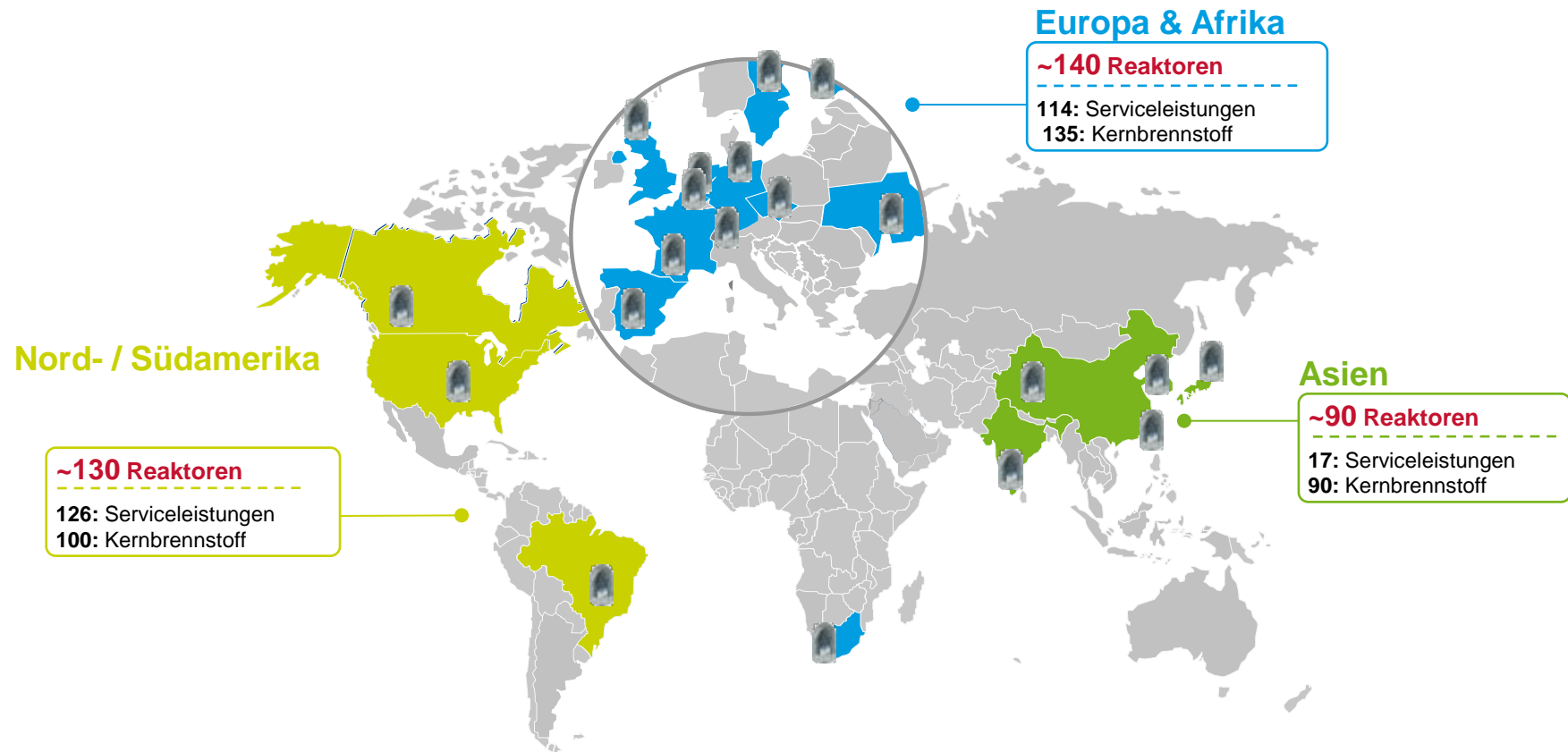
Market Overview – Reactors planned



Approvals, funding or major commitment in place, mostly expected in operation within 8 years; Source: WNA, May 2012

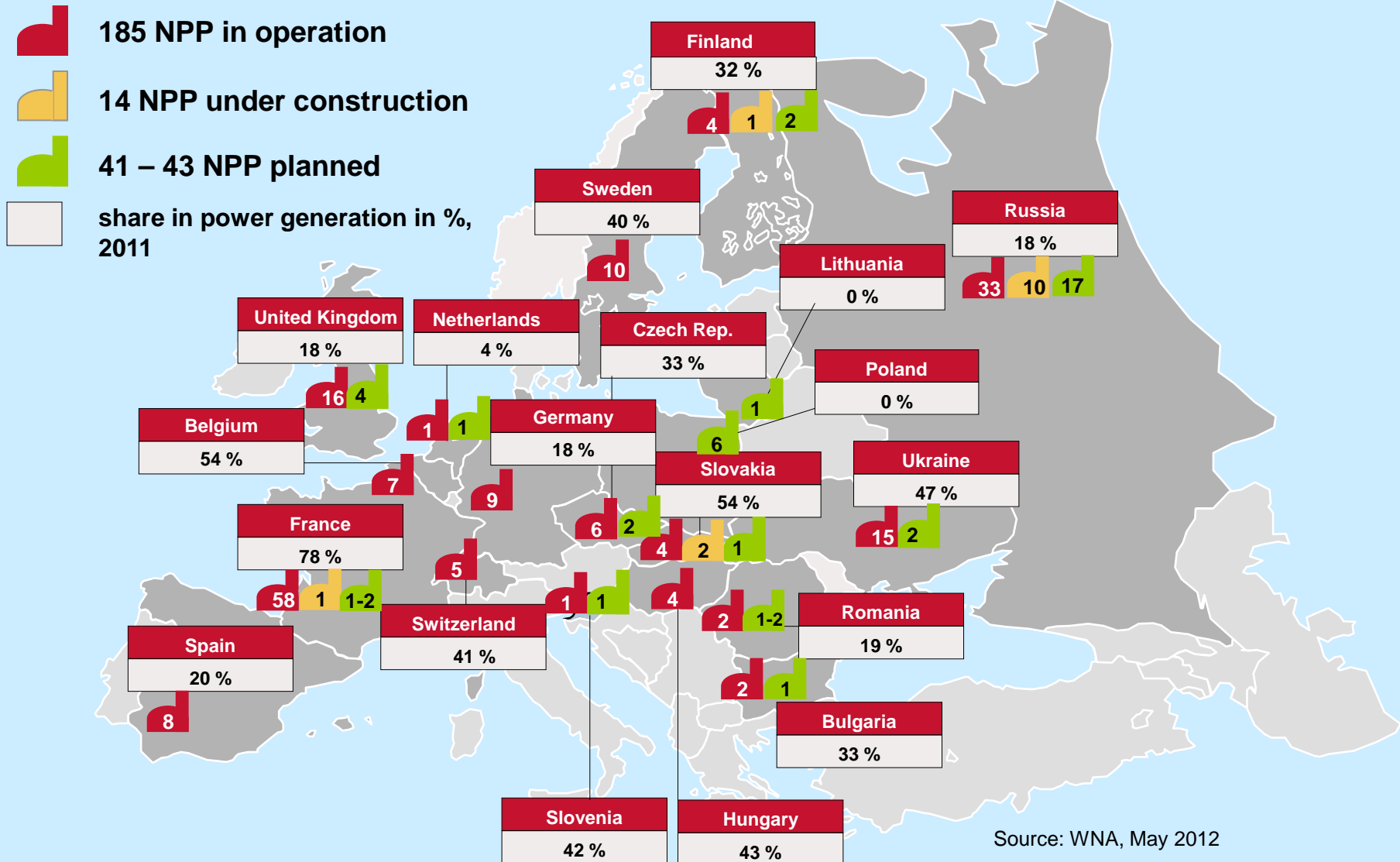
162 reactors on order or planned

90 Prozent aller Kernkraftbetreiber sind Kunden von AREVA



» AREVA macht Serviceleistungen für über 360 Reaktoren weltweit

Nuclear Power in Europe

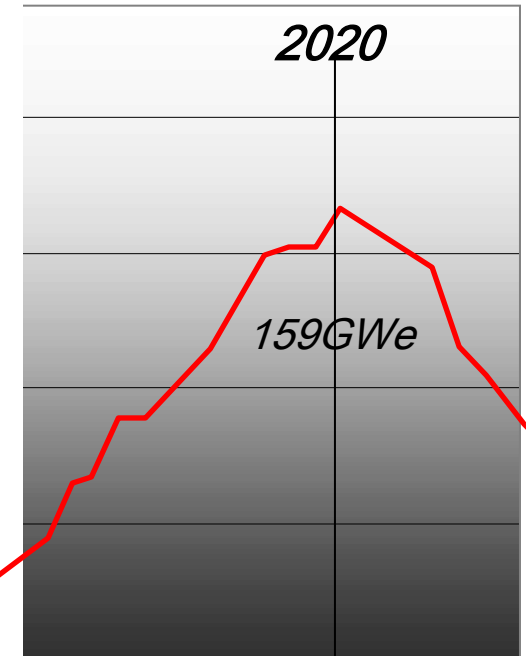
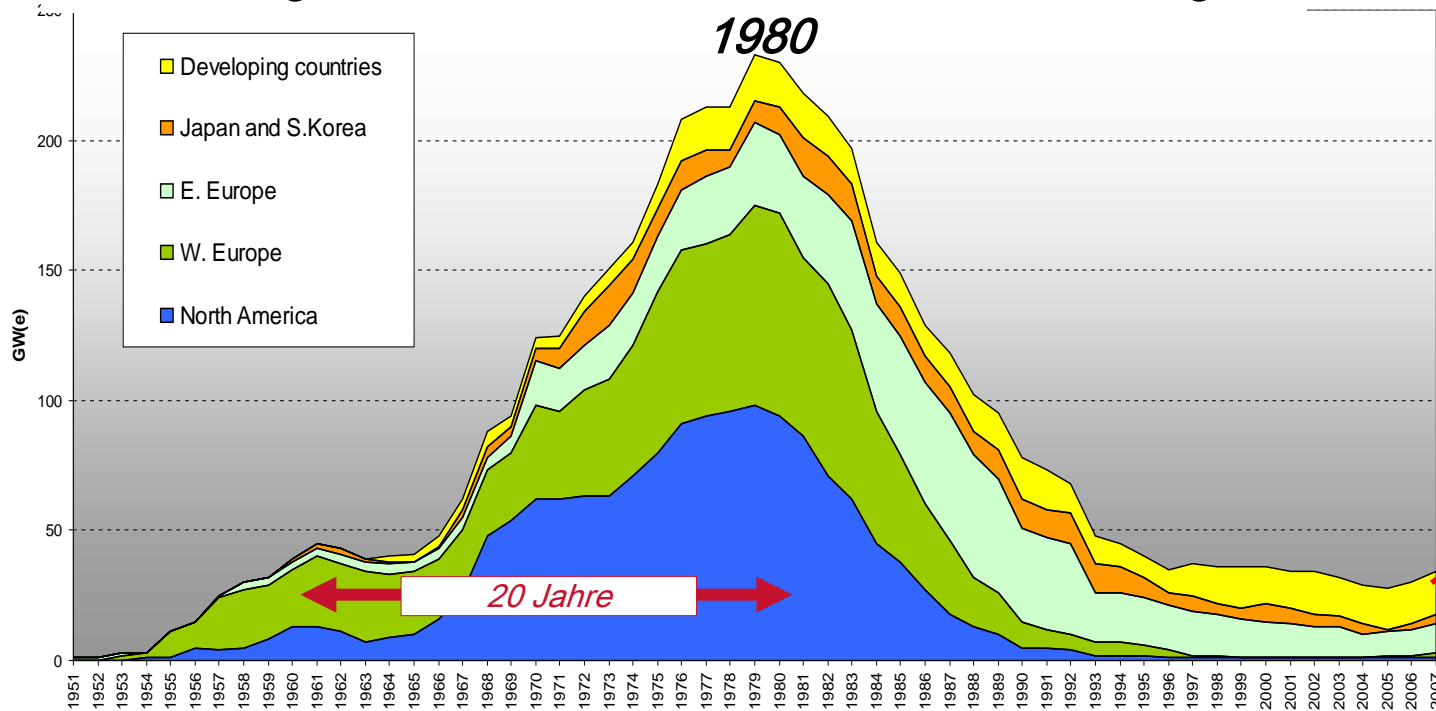


Source: WNA, May 2012



Marktentwicklung Modernisierung weltweit

Gleichzeitig im Bau befindliche Kernkraftwerksleistung



Quelle: IAEA

Olkiluoto 3



Elektromechanische Installationen im NI

Batterien in den Sicherheitsgebäuden eingebaut



Kuppel der Flugzeugabsturzzhülle



Reactor Cavity / Core Internals' Storage

Leak-tightness test



© AREVA

Seewasser Flutung der Kühlwasserstrukturen



© AREVA



© AREVA

Turbinenhalle





© EGIS / Laurent Malet

China: Taishan 1&2



© EGIS / Laurent Malet



July 2013: Dome lifting in Flamanville



Zusammenfassung

- ▶ **AREVA glaubt an die Zukunft der Kernenergie**
 - die Fundamentaldaten haben sich nicht geändert
- ▶ **Neubauprogramme sind praktisch unbeeinflusst durch Fukushima, jedoch sind einige verzögert. Die meisten Länder und selbst in Europa an Deutschlands Grenzen halten an ihren Nuklearprogrammen fest.**
- ▶ **Die EPR™-Projekte profitieren weltweit vom Erfahrungsrückfluss bei Lizenzierung in fünf Ländern, Bau sowie Projektleitung in vier laufenden Projekten**

» **Das EPR™ Design erfüllt sämtliche Anforderungen nach Fukushima**

» **AREVA bietet verlässlich Kerntechnik nach Stand von Wissenschaft und Technik weltweit**


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