



**AREVA**

***Recycling,  
Back to the future***

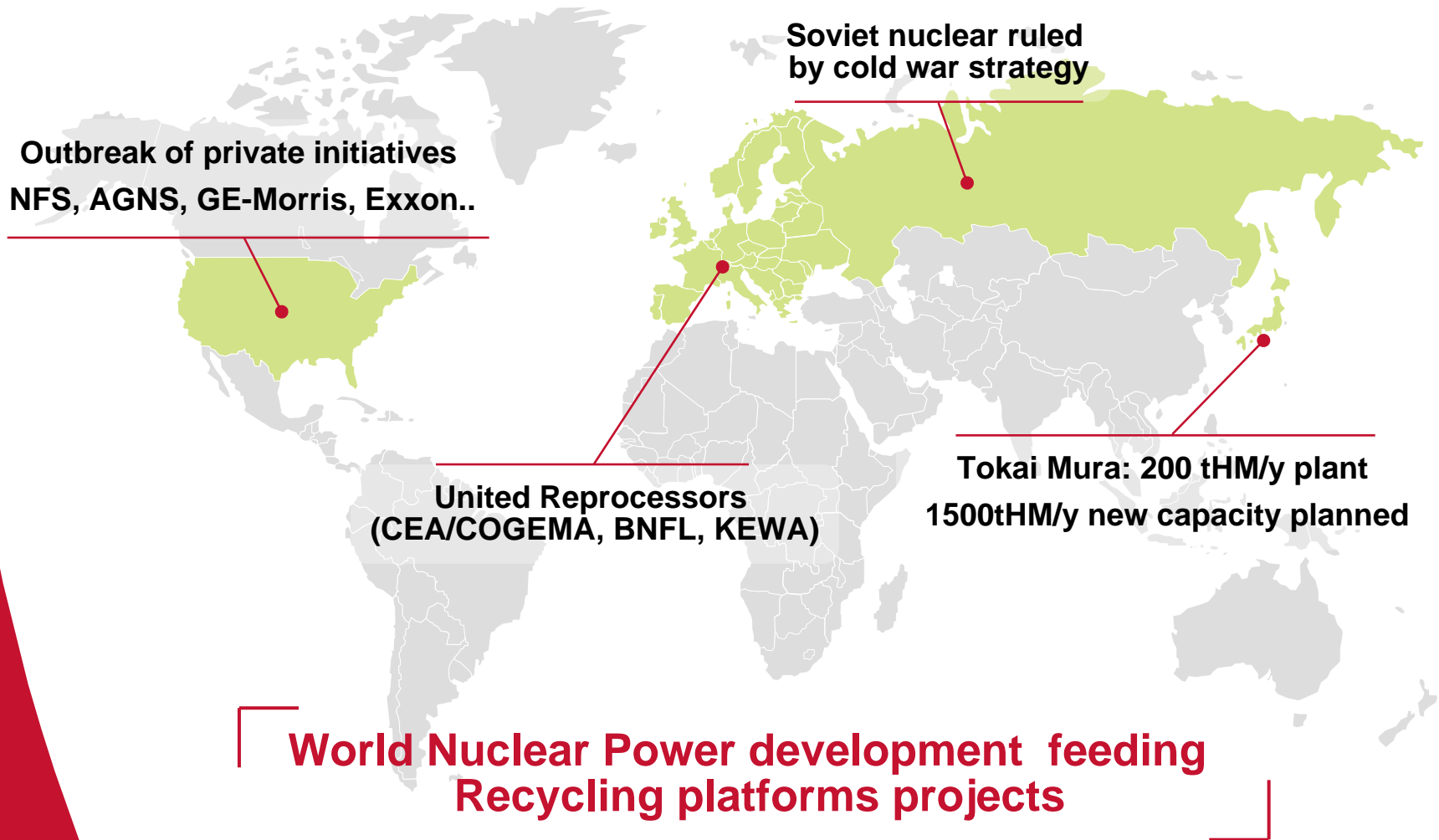
**Denis HUGELMANN**  
**Back-End Sector Senior Executive VP**

**WNA**  
***September 4<sup>th</sup>, 2008***

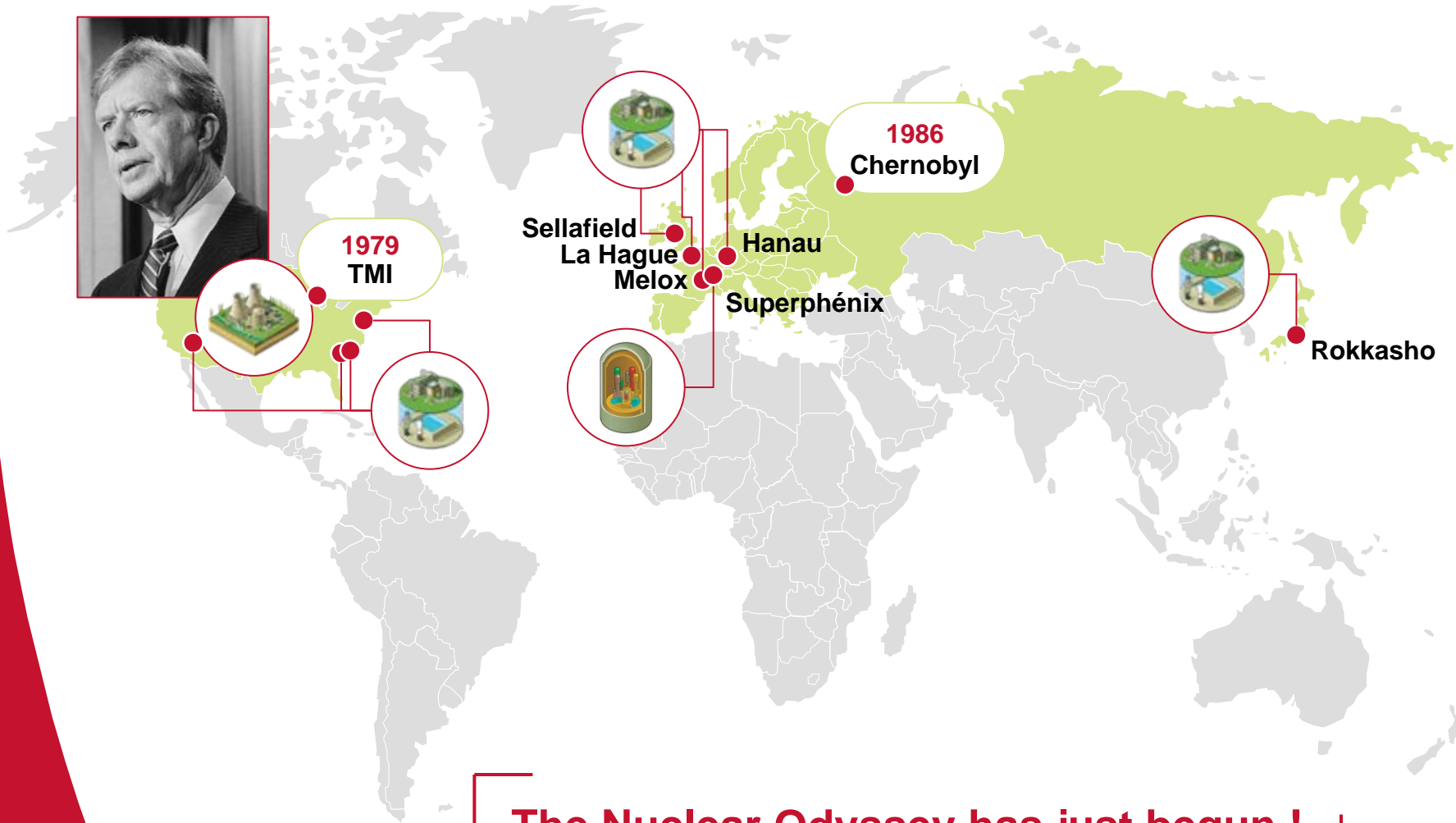
*Embargo*

***1973 : Sorry,  
no more oil***

# ***A shared view among Developed Countries: No energy independence without recycling***

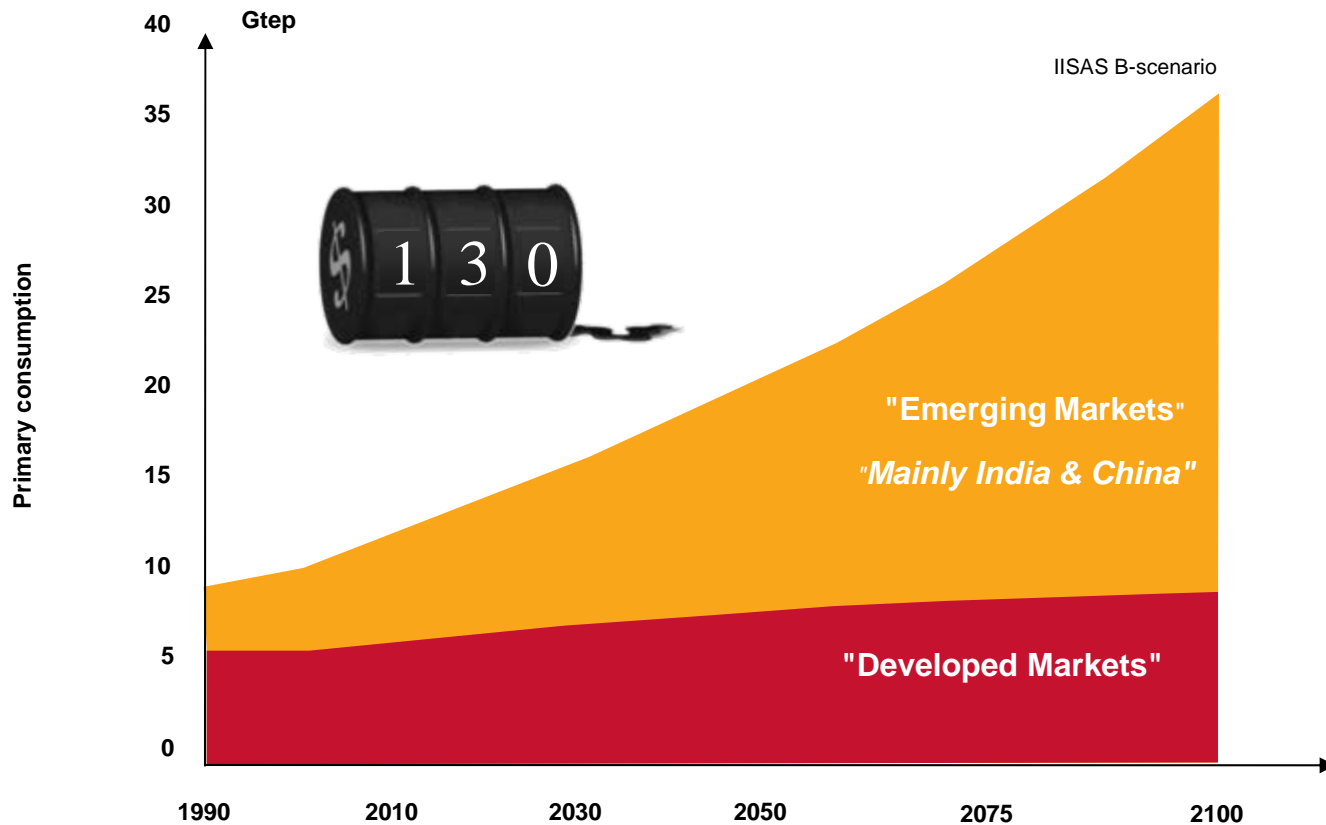


# We were just in rehearsal



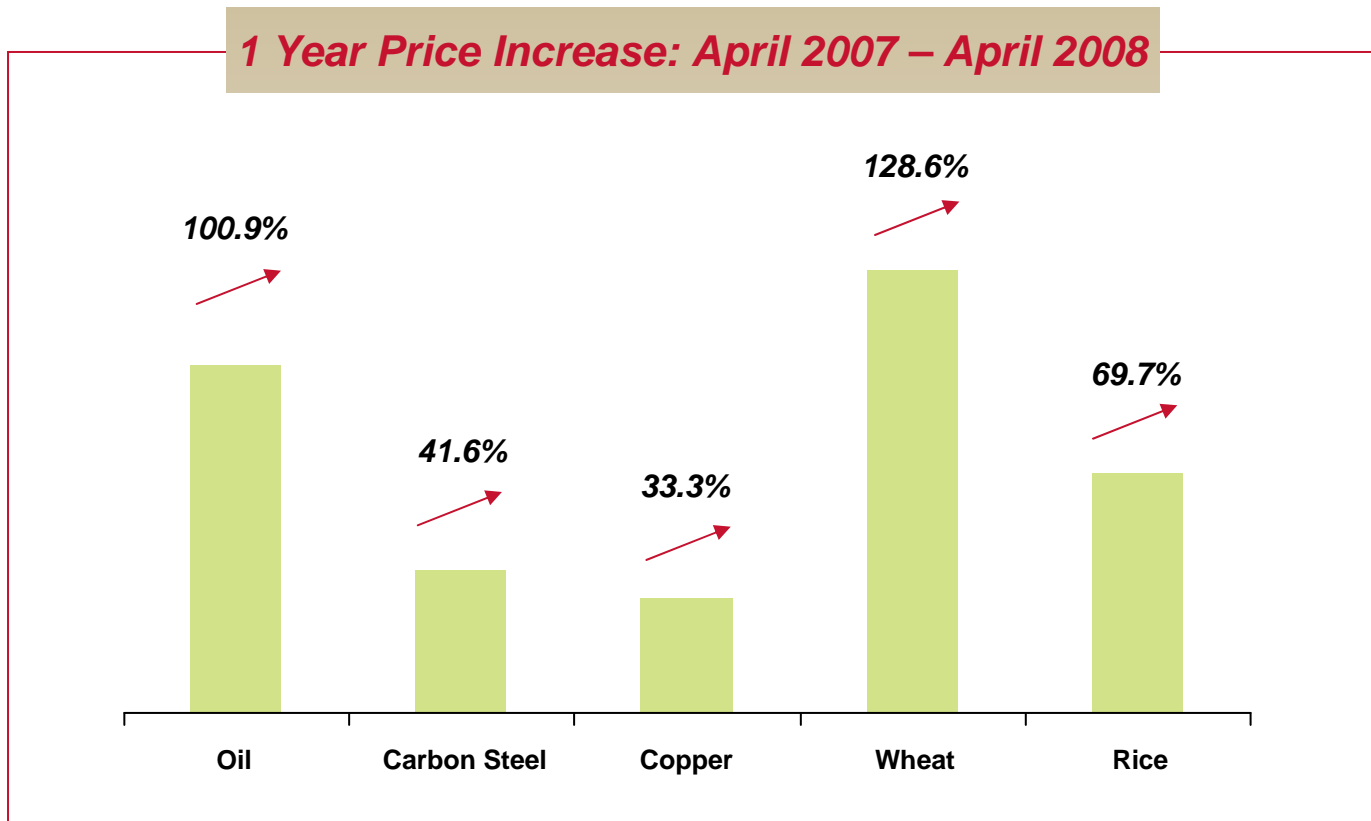
**The Nuclear Odyssey has just begun !**

# Since 2006 steady tensions send Oil and Gas prices skyrocketing



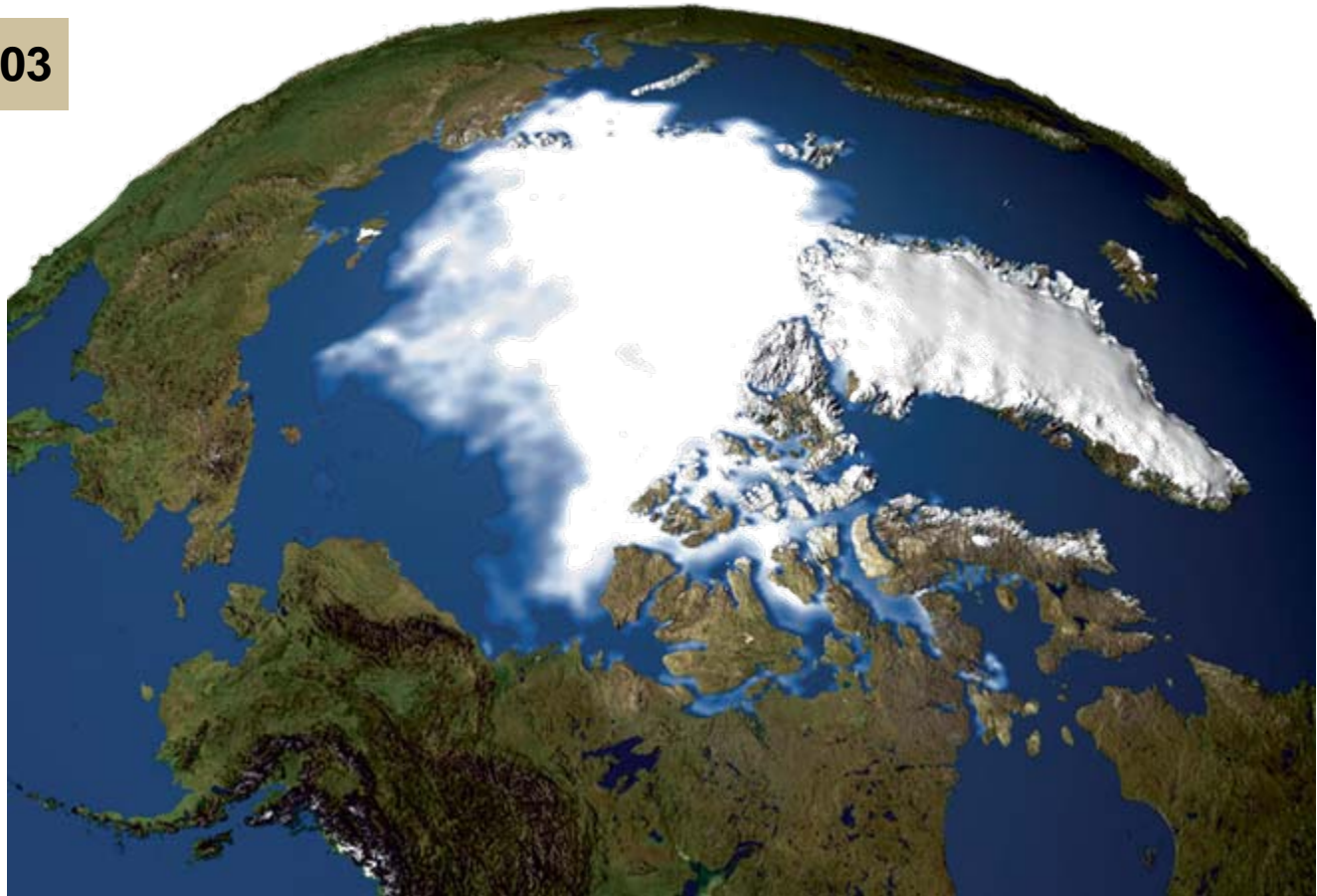
Direct impact of Structural Energy needs

# Raw materials & food A dramatic & steady price increase



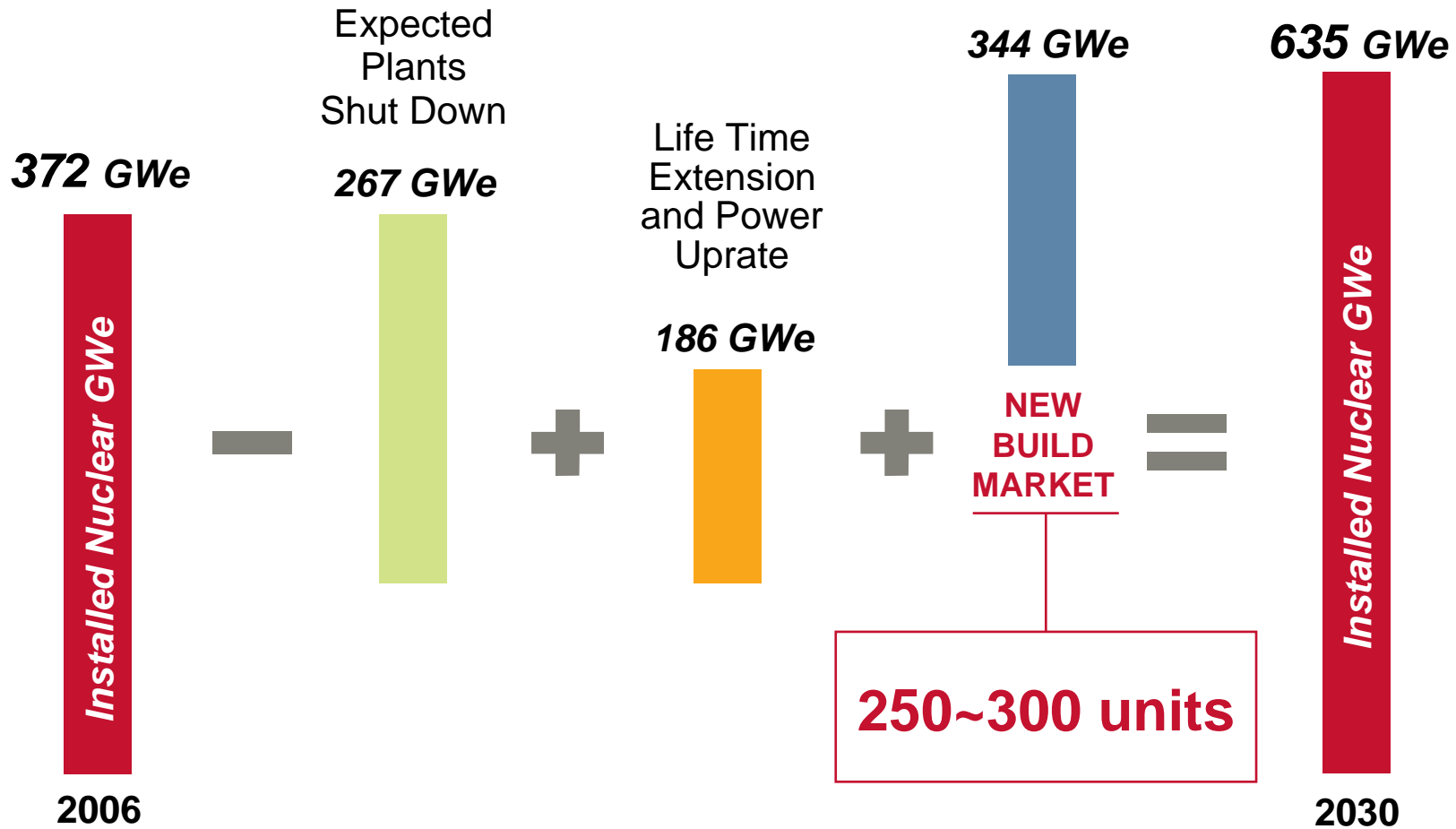
# *The climate Emergency Nuclear energy making Worldwide Comeback*

▶ 2003



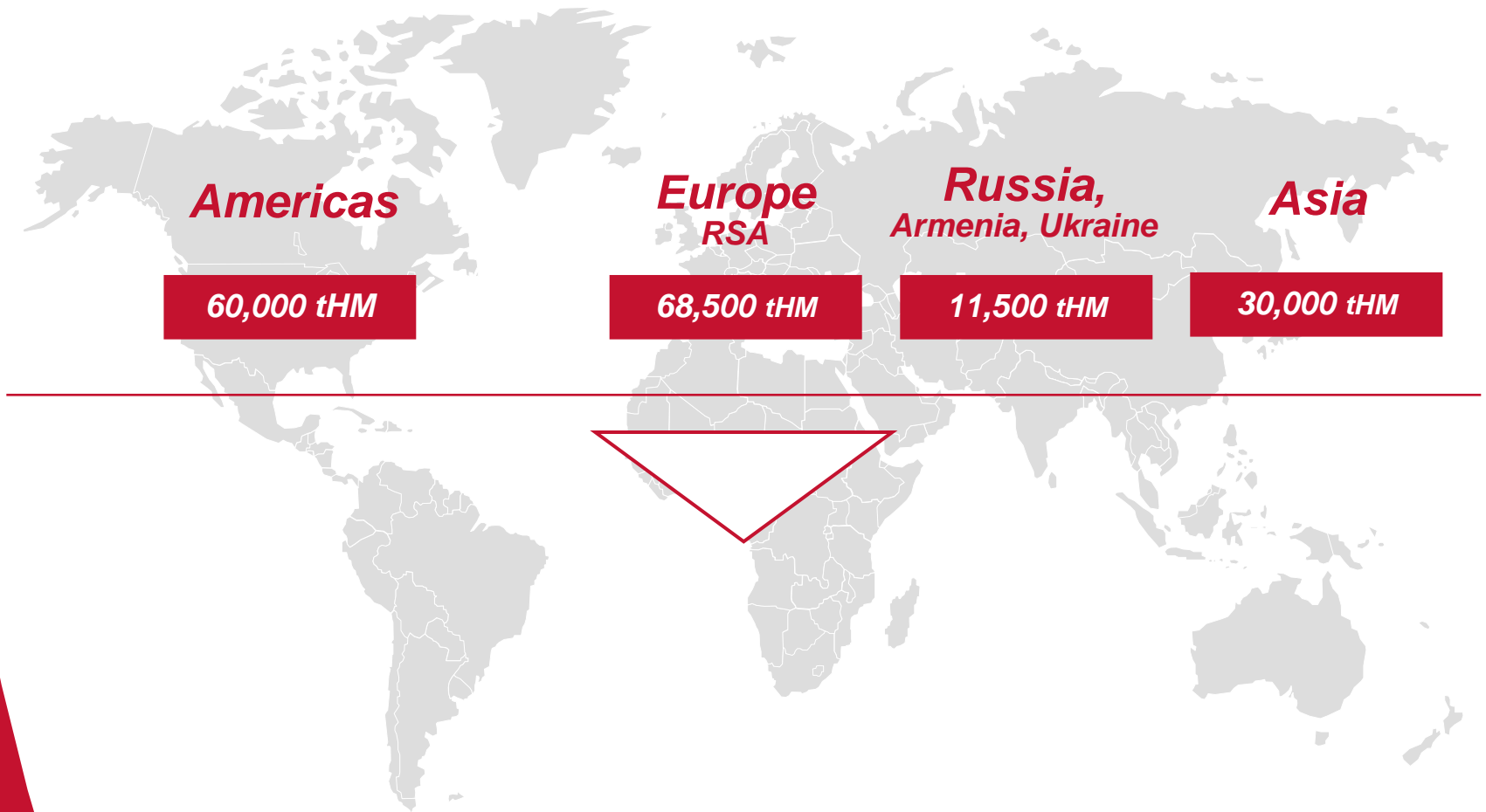
「**"No oil, no gas, no CO<sub>2</sub> : no choice"**」

# Nuclear share in future global energy mix updated view



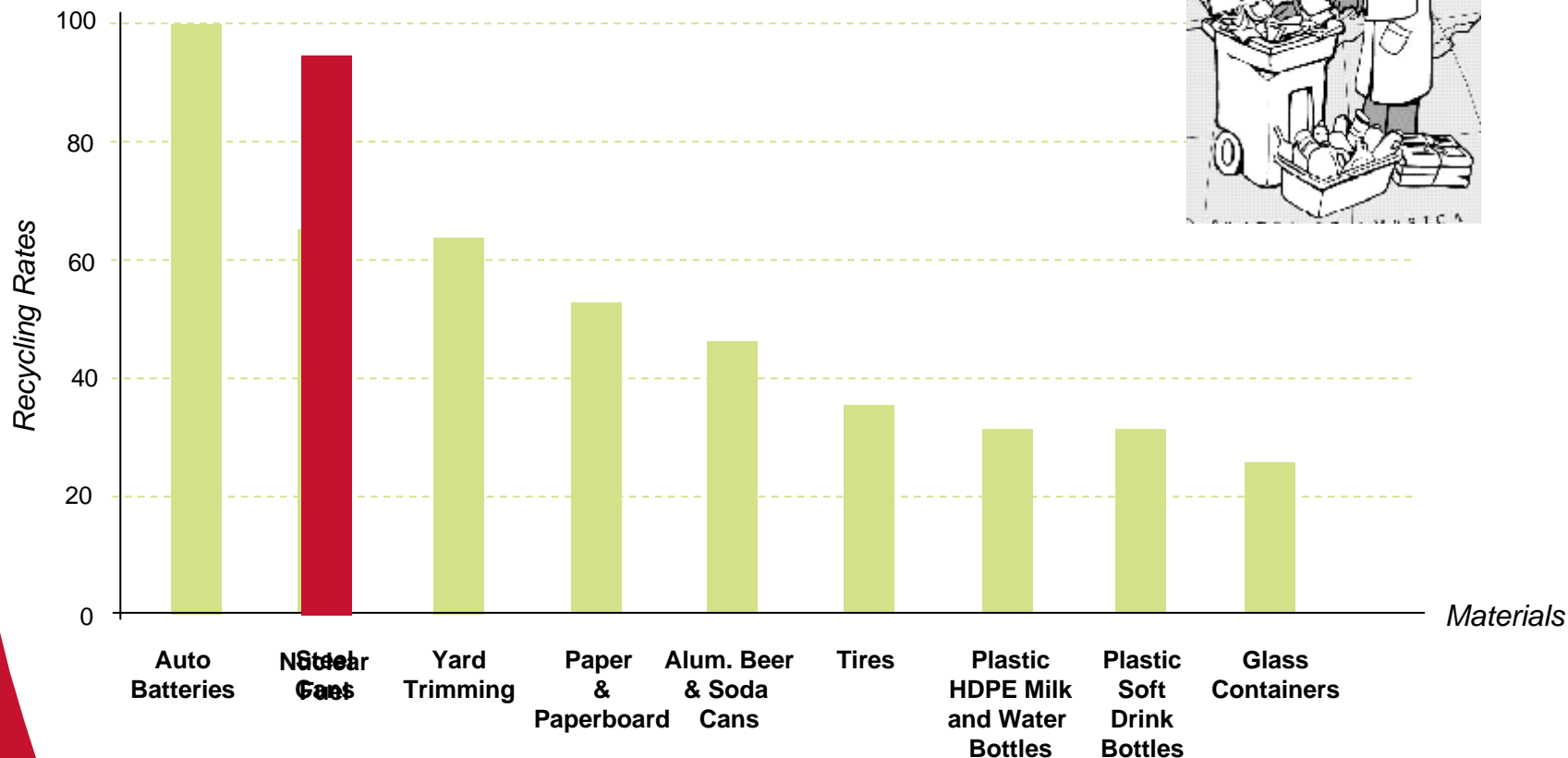
Source: AREVA 2007

# Used Nuclear Fuel inventory: Domestic Mines at hand



**400,000 tons of Used nuclear fuel in 2030s**

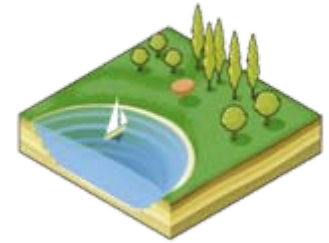
# Recycling is getting more and more Popular... ...So, let's make Nuclear Recyclable definitely Worldwide



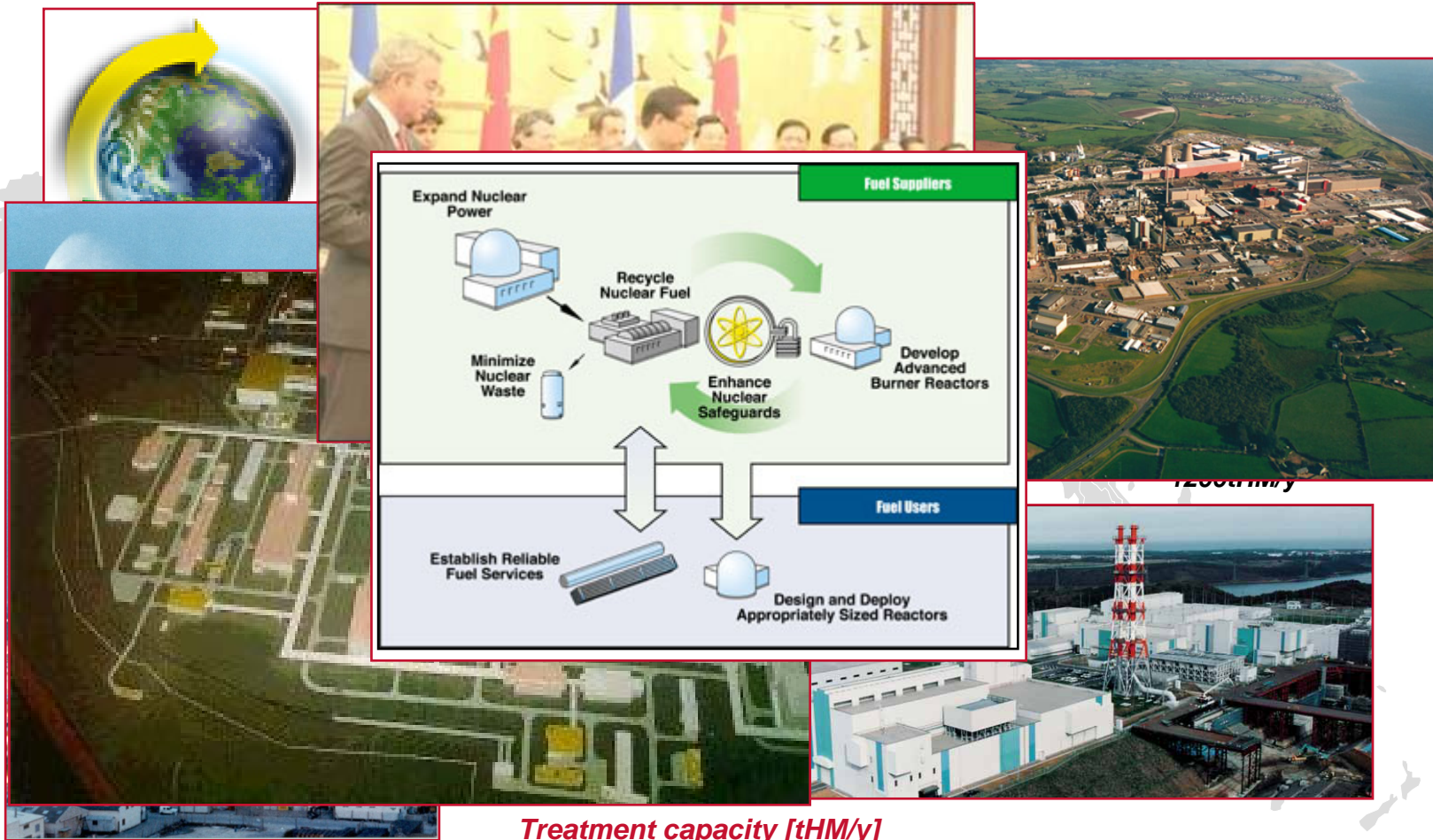
Source: US Recycling rates of selected materials 2006 US EPA

# Recycling, What's more ?

- ▶ Saves **up to 25%** in natural uranium
- ▶ Promotes energy independence through:
  - ◆ Recovered Pu recycled into MOX fuel
  - ◆ Recovered RepU recycled into ERU fuel
- ▶ Reduces waste **volume** and **toxicity**
- ▶ Prepares for Gen IV
- ▶ Fights proliferation



# ...2030, Regional Recycling Centers will provide additional supply guarantees



*Treatment capacity [tHM/y]*  
*Recycling capacity in MOX [tHM/y]*  
*Unloaded Used fuels [tHM/y]*

**NUCLEAR  
IS A RECYCLABLE ENERGY**



A large, stylized red 'A' is centered at the top. Below it, the word 'AREVA' is written in a bold, red, sans-serif font, with the letters spaced out.