

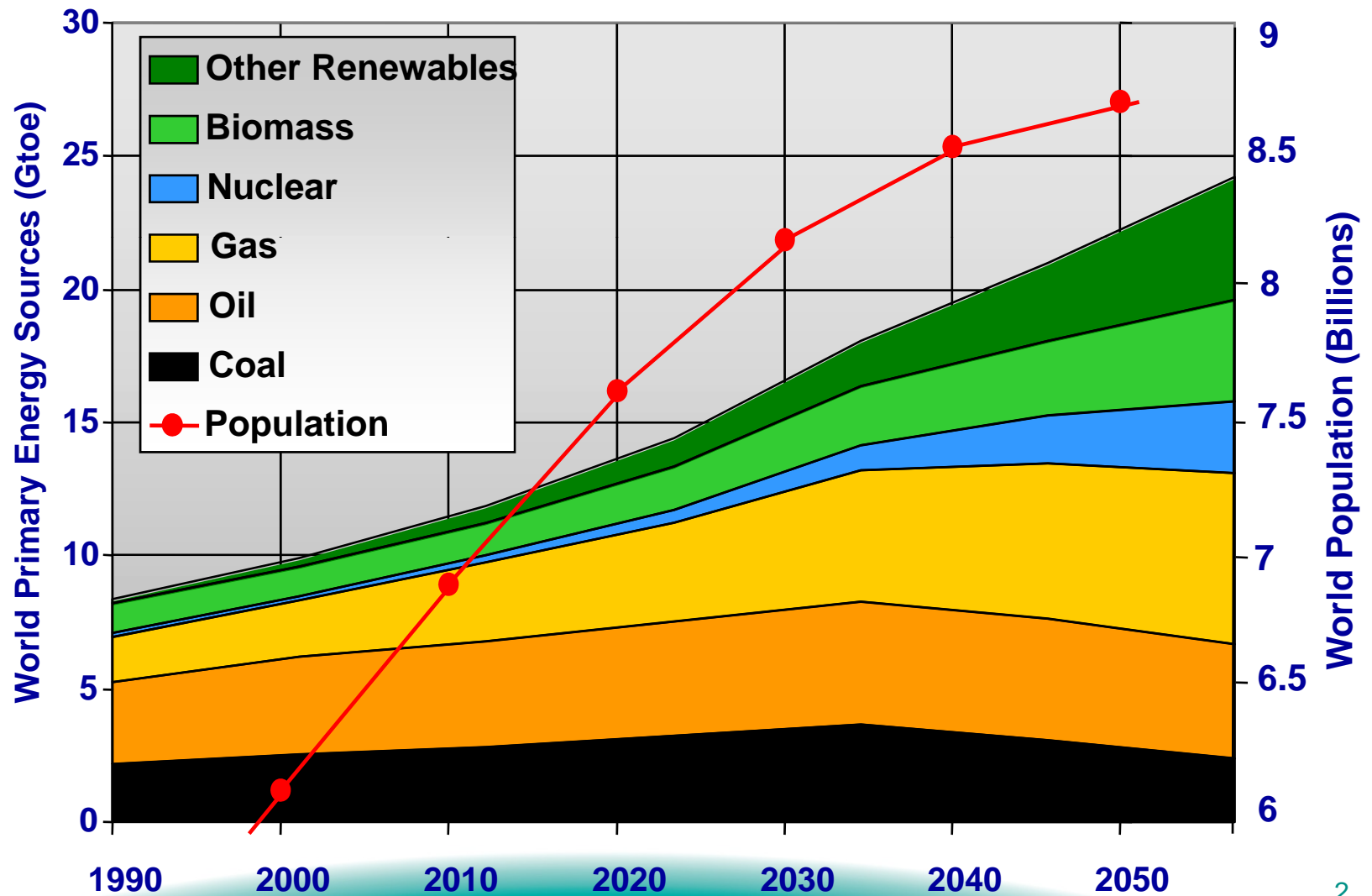


Competitive advantages and disadvantages of nuclear energy in the EU low carbon economy and a global energy security context

Luc Geraets
GDF SUEZ Nuclear Activities

EESC Conference, 30.11.09

Sustainable energy development scenario



Energy: a fast-changing sector

- Durably high fuel prices.
- Rising energy prices in the long run in Europe and throughout the world.
- Security of supply and need for major infrastructures.
- Sustainable-development imperatives: environmental and social challenges, fight against global warming.

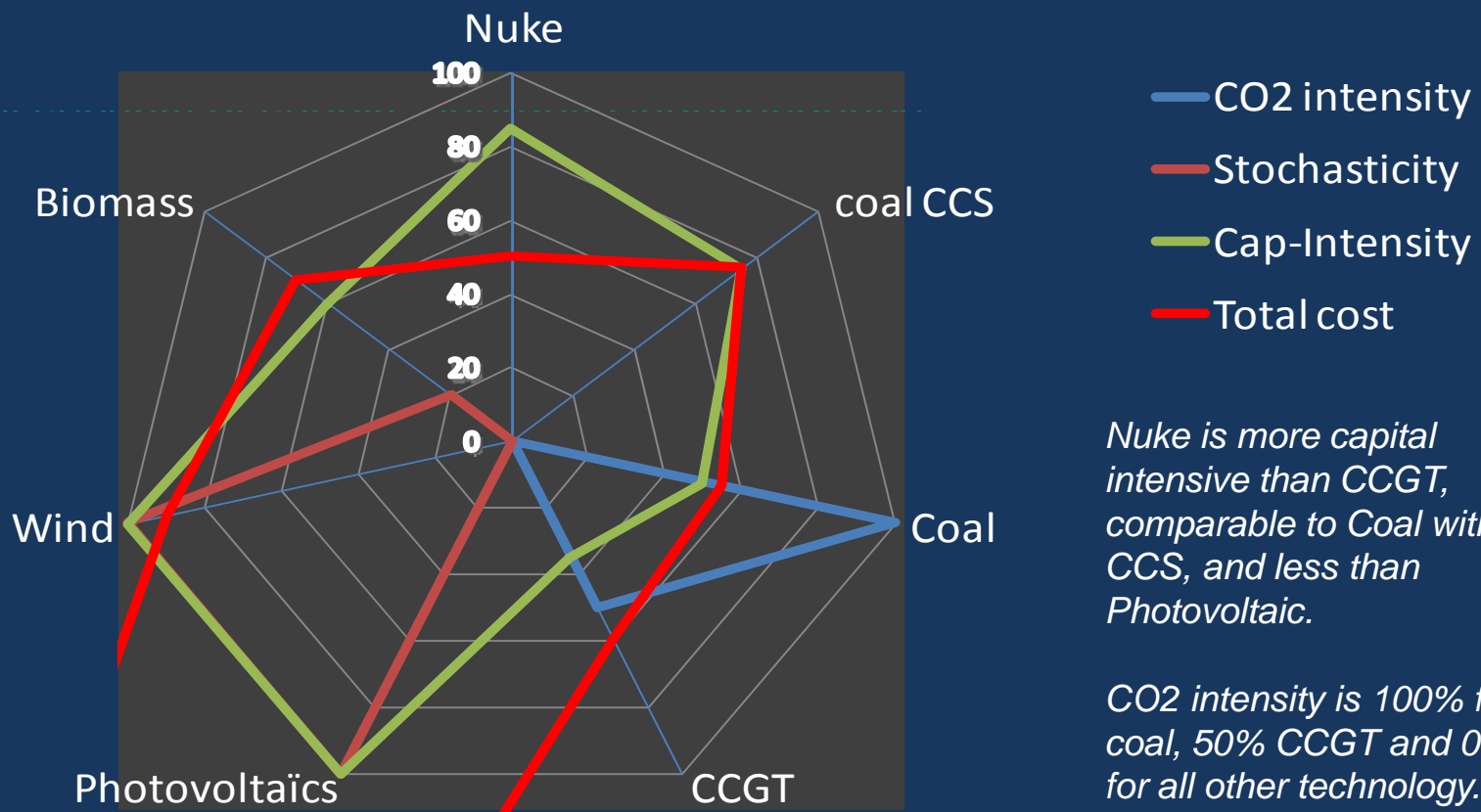
All these factors are to have an impact on public policies in a difficult environment.

Nuclear energy is part of the solution

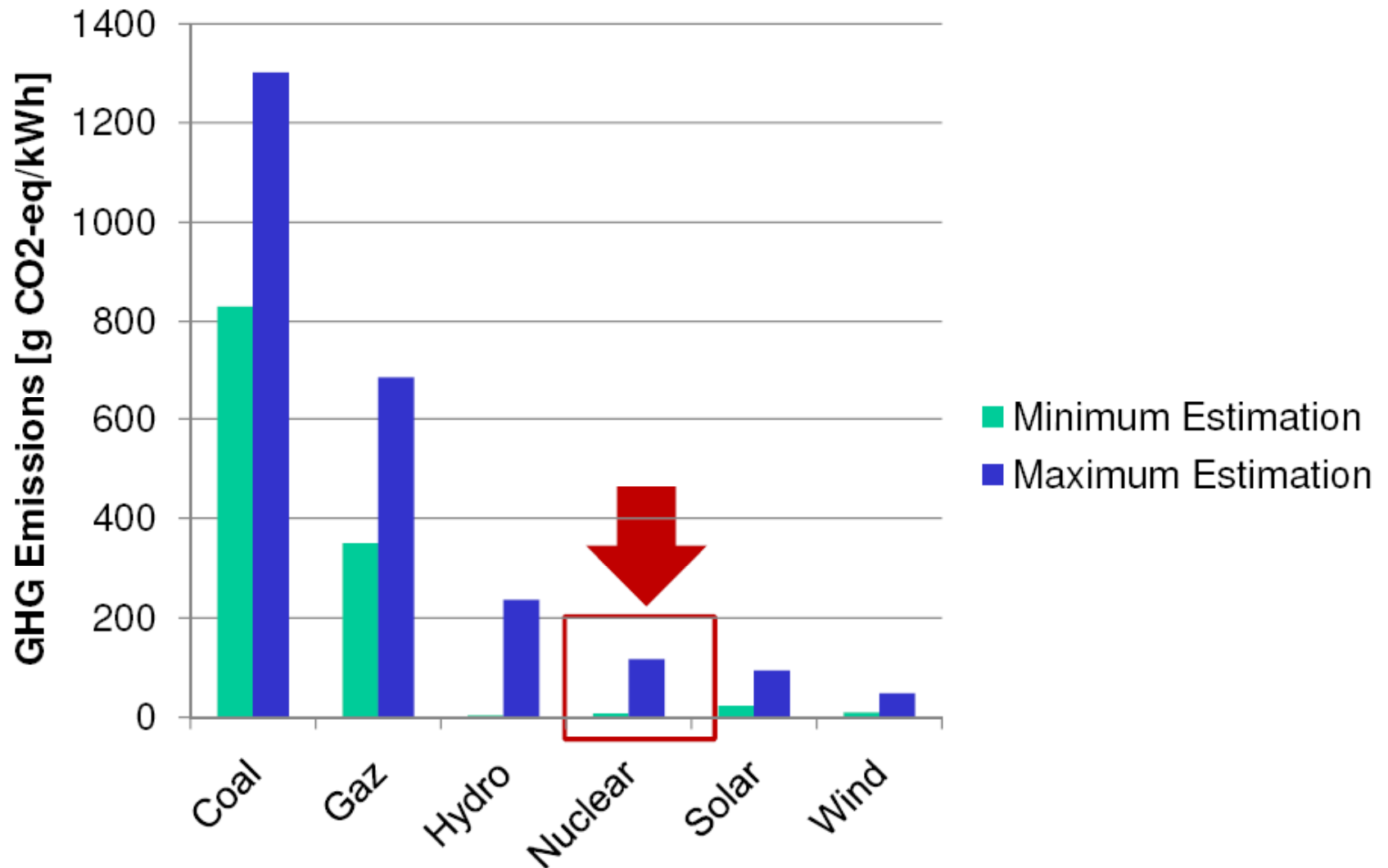
- A solution to face increasing energy challenges
 - Stable, predictable and competitive generation costs
 - Lowest level of greenhouse gas emissions
 - Fuel security of supply, energetic independence

Nuclear energy is part of the solution (2)

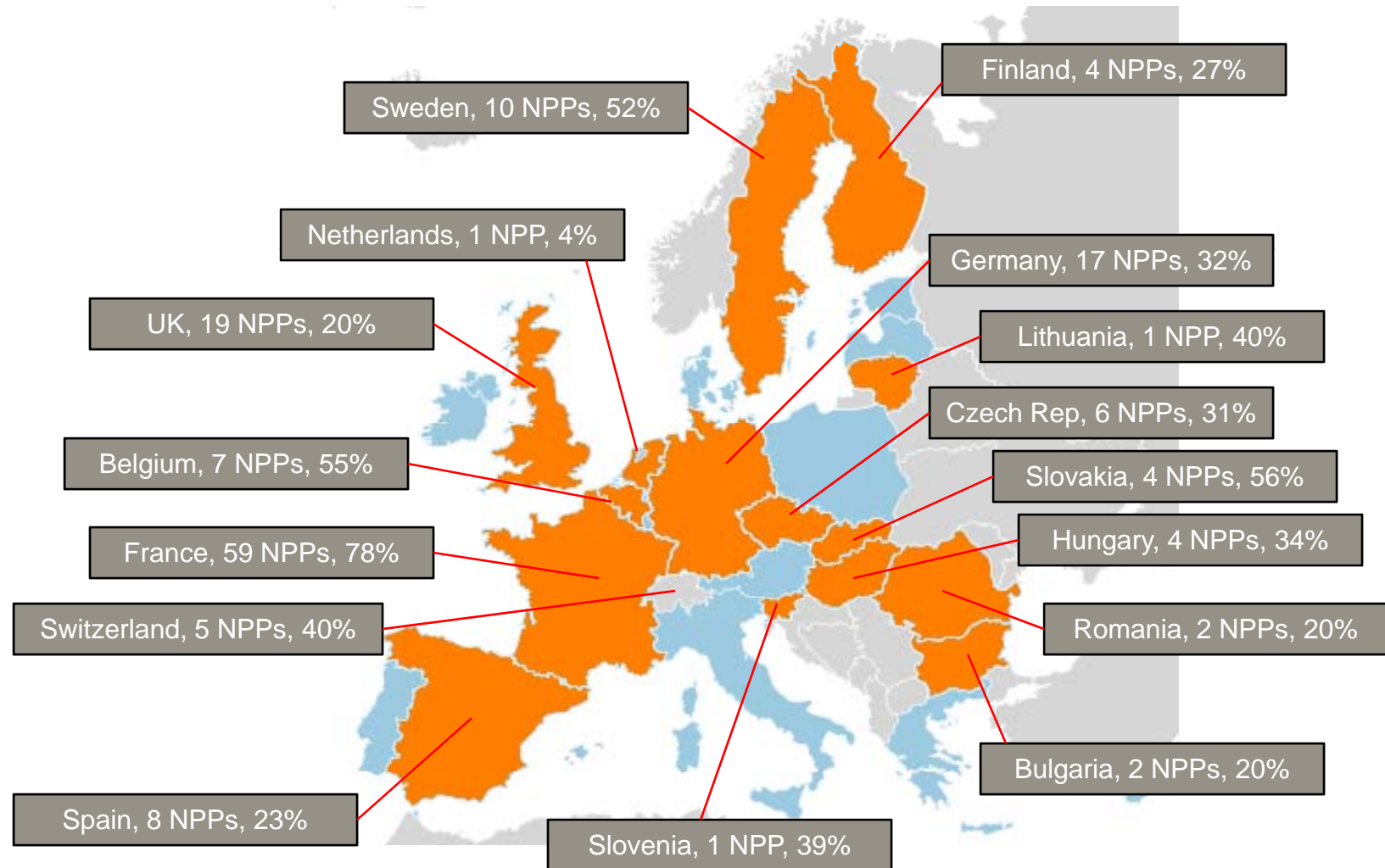
This radar screen provides a rough overview of the basic parameters of the competition of the technologies



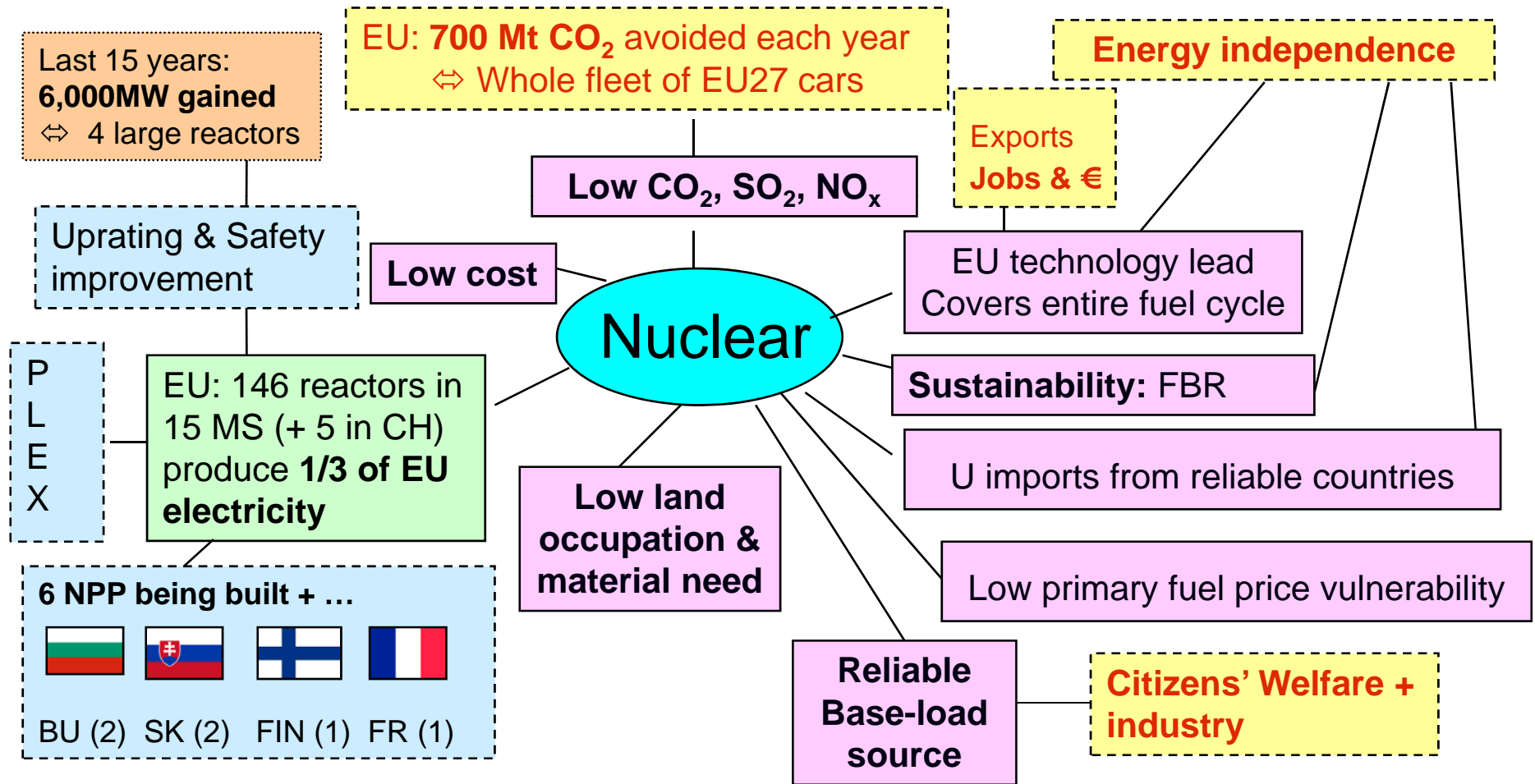
Comparison with other technologies (CO2 equivalent)



Nuclear power generation in Western Europe

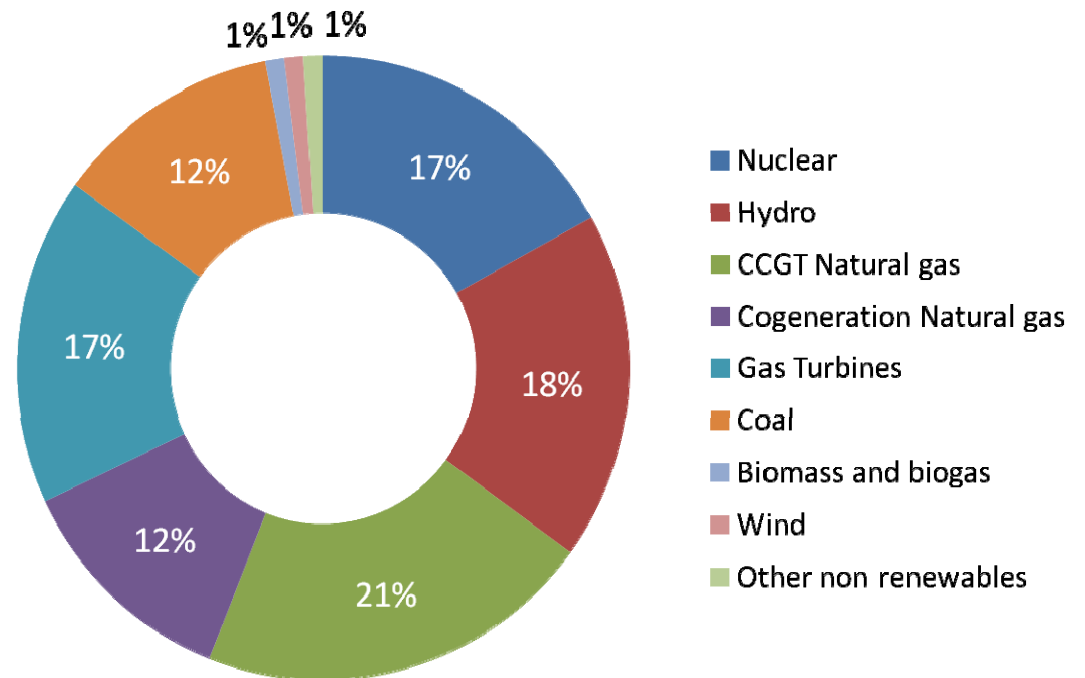


Nuclear energy in EU energy mix



GDF SUEZ, a balanced electricity generation mix

- **68,400 MW** in total installed capacity
- A **competitive** electricity-generation portfolio
- **Flexible**, high-performance generation capacity with low carbon emissions
- Development of electricity production from **natural gas**
- Strong business **expertise**
- **High-performance** nuclear plants



GDF SUEZ electricity
generation in 2008

Conclusion



EC President Manuel Barroso
ENEF meeting, 22/05/08, Prague

- **Nuclear** energy can make a **major contribution** against climate change, as it generates **two thirds** of the EU carbon-free electricity.
- By 2020, **60% of our electricity** could come from **carbon-free** sources (nuclear and renewables).

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Rediscovering energy



Thank you for your attention