

Czech Republic: how nuclear can still make sense

Vaclav Bartuska
Ambassador-at-Large for Energy Security
Czech Republic

JAIF, April 24, 2013, Tokyo

Present energy mix

- **Coal 60 %**
- **Nuclear 30 %**
- **Renewables 10 %**

- Czech Republic is EU's second biggest electricity exporter (after France)
- Six reactors (4.000 MW) are the most profitable part of the mix

Strategy 2030

- **reduce coal to 30 %**
- **increase nuclear to 50 %**
- **Increase renewables to 20 %**
- Two more reactors at Temelin (No. 3+4), possibly one more at Dukovany (No. 5)
- Renewables: subsidies reduced to minimum, let market work

Why nuclear

- **Considered safe** (long-term public support at 70 %)
- **Credible nuclear regulator** (Ms. Drabova, Mr. Krs, Mr. Stuller et al.)
- **History:** Czechoslovakia manufactured 24 nuclear reactors & SGs, turbines, etc.
- **Makes economic sense**

Temelin tender

- We know this is a **long-term commitment**, we have done it before
- 2007: start
- 2009: short-list (**Areva, Rosatom, Westinghouse**)
- 2011: **tender documentation** (6.000 pages, 11.000 questions)
- 2012: **bids submitted**, Areva rejected (did not meet criteria)

Temelin tender – final stage

- Last two: **Rosatom** and **Westinghouse**
- Pre-ranking sent to bidders in March 2013, both have a lot to improve
- Decision is summer 2013 – **can also be not to choose anyone**

Broader context – Security

- We **expect more conflicts** for resources (not just the energy ones) in the world
- Having energy based on **safe sources** (domestic coal, nuclear) makes sense
- Experience of **repeated gas crises** (Russia-Ukraine): no gas-fired power stations

Broader context - Europe

- **Proud to be member** of the EU
- **Freedom to choose** energy-mix
- “No talk of nuclear, please, we are Europeans” – yet **14 out of 27** have nuclear power stations

Opponents

- **Nuclear needs public opposition:**
never trust energy companies
- Problem: less and less people understand physics, “hard sciences”
- **“I do not need electricity, I can watch my TV by candle light.”**

Future

- **Nuclear has a future**, even in democracies
- **Loss of know-how** and broken supply chain are the biggest obstacle
- **Can we remain a technology society** without enough young people studying Science & Engineering?

Thank you

vaclav_bartuska@ mzv.cz