



Global Nuclear Energy Developments: The nuclear market after Fukushima

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Nuclear Power Reactors in Japan

Total Reactors in Operation

Under Construction

Reactors in the zone of event

- Fukushima-Daiichi: 6 units
- Fukushima Daiini: 4 units
- Onagawa 3 units

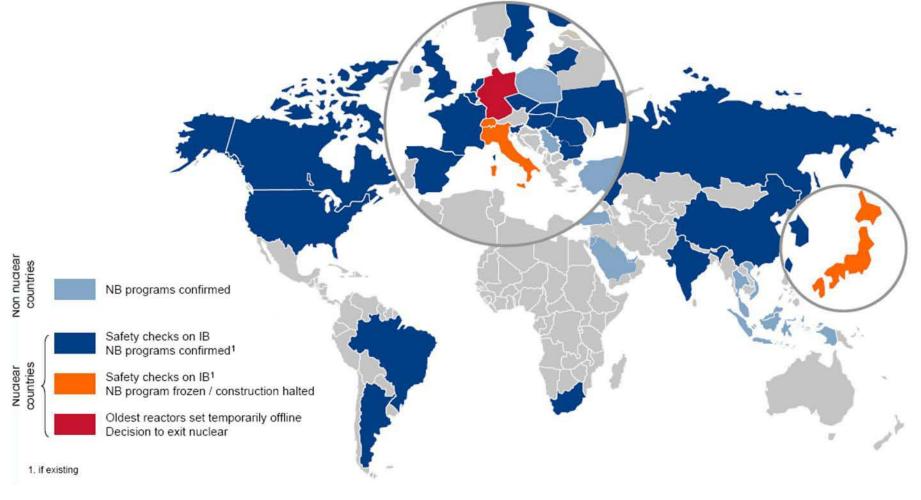


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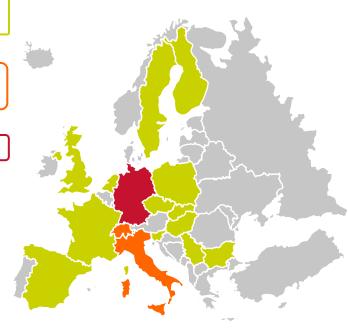


Impact of Fukushima Event in Europe, Middle East and Africa

 UK, Czech Republic, Poland, Finland and The Netherlands have rational reactions and share a close position

 Very few countries (Italy and Switzerland) decided a "<u>time-out</u>" in their nuclear New Build program

Only Germany decided more stringent measures





Impact of Fukushima Event in Asia

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C I	m	na

India

South Korea

In Japan,





Impact of Fukushima Event in Americas

►	United State

Brazil

Canada

Argentina





Safety Authorities Launched Comprehensive Safety Reviews

- Details of these tests are still unknown. The first SA to publish them will be STUK (Finland)
- The following situations are likely to be examined:
 - Earthquake
 - Flooding
 - Loss of electrical power
 - Loss of the ultimate heat sink
 - Loss of core cooling function
 - Loss of cooling function in the fuel storage pool.
- Not a single nuclear reactor building site has been interrupted outside Japan.
- Safety authorities working on the licensing of new reactor designs are going ahead with this work and did not interrupt it.



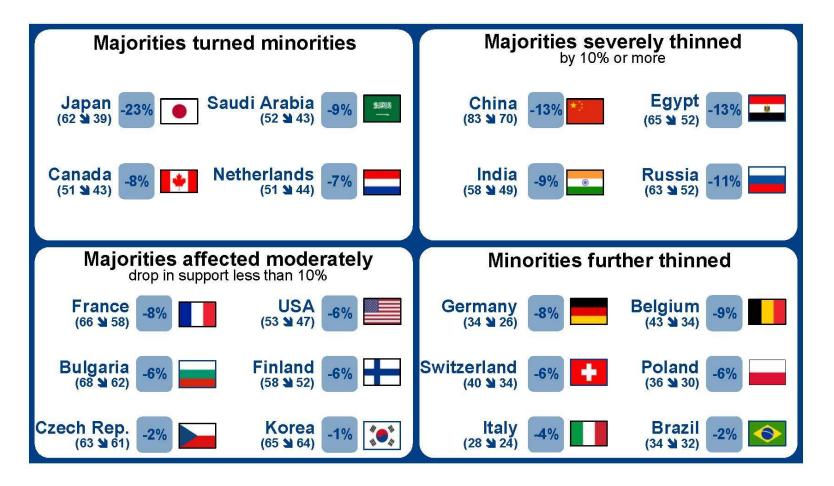
Safety Principles in the Post-Fukushima world

- Existing reactor fleets to be checked regularly
- Likely overall decrease in the number of life extensions
- Only Gen. III + reactors should be acceptable for new builds

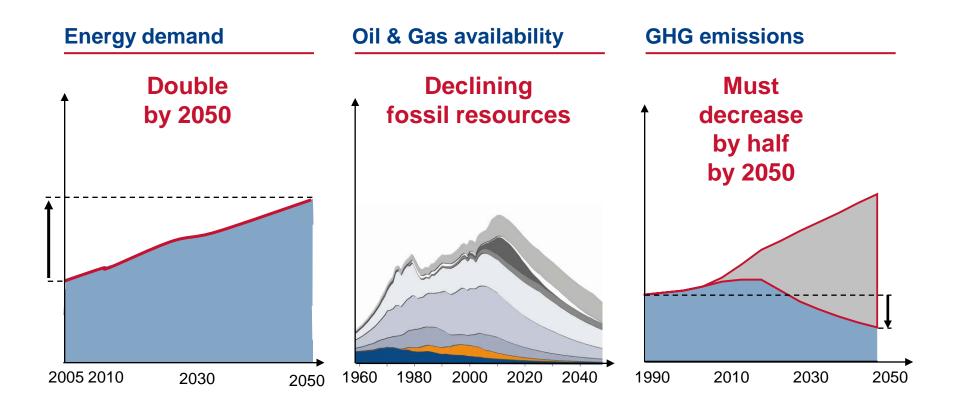


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Fukushima: impact on Public opinion



The world energy sector is facing 3 major challenges





Fukushima has not changed the fundamentals

March 10, 2011

- The World needed electricity generation sources that were:
 - Affordable
 - Secure
 - Job creators
 - Clean
 - ♦ Safe

- June 6, 2011
- The World needs electricity generation sources that are:
 - Affordable
 - Secure
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Conclusion

- The world needs nuclear
- Operating Nuclear plants and new plants:
 - Are Competitive
 - Support National Security
 - Enable Economic Growth
 - Enable decarbonizes baseload electricity supply
- A sustainable future requires partnerships and strategic vision
 - Governments Utilities Suppliers R&D

Building today means affordable energy and economic security tomorrow

