NEA Nuclear Energy Agency

International Energy Agency
Secure • Sustainable • Together

IEA/NEA 2015 Nuclear Technology Roadmap

What role for nuclear energy in coping with climate change ?

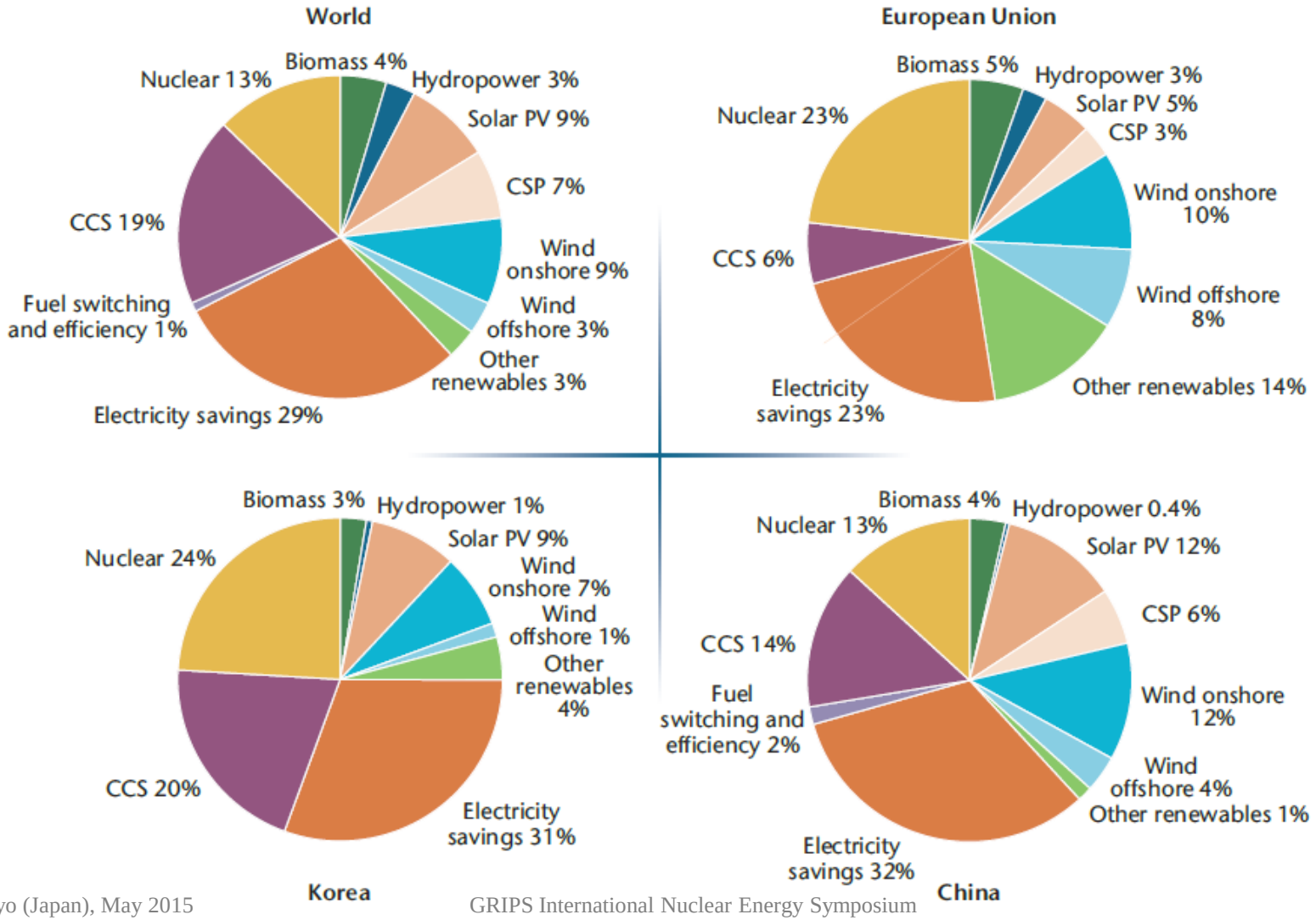
Energy Technology Perspectives

XIMENA VÁSQUEZ-MAIGNAN
Head, Office of Legal Counsel
OECD Nuclear Energy Agency

Contributions of Nuclear to mitigate CC

- Largest source of low-carbon electricity in OECD countries and 2nd at global levels
- Already contributes to reduction of CO_2 emissions from power sector
- Mature low-carbon technology
- Different designs to meet different needs
- Important non-electric applications, such as
  - Nuclear cogeneraiton
  - Energy storage
  - Process heat applications
  - Desalination

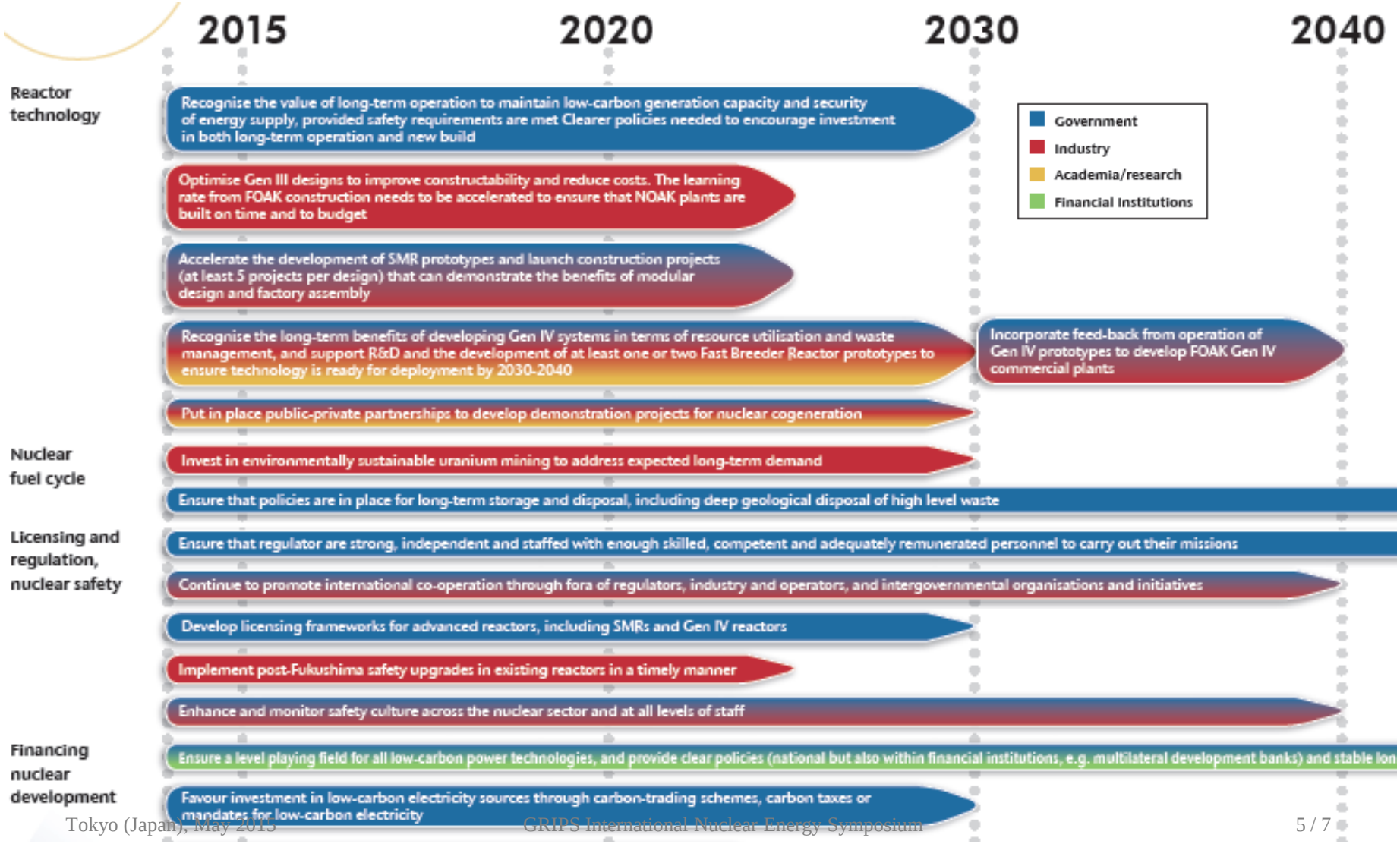
2 DS: Emissions reduction in power sector



Key actions for the next 10 years

- Offer same level playing field to all low C technologies (electricity markets)
- Industry to build on time and to budget, FOAK →NOAK
- Enhance standardisation, harmonise C&S and regulatory requirements
- Continue to share information & experience (among regulators and among operators) to improve safety
- Public acceptance must be strengthened (post F safety upgrades, fact-based information)
- Develop long-term strategy for radwaste management

Roadmap actions and milestones



Acknowledgements for Nuclear Technology Roadmap

- +150 experts who participated in workshops, reviewed drafts, provided input incl. case studies

Report & case studies

- On NEA site:

http://home.nea.fr/pub/techroadmap/

- On IEA site:

www.iea.org/publications/freepublications/publication/technology-roadmap-nuclear-energy-1.html

www.iea.org/etp/

THANK YOU !

Contact: report@tky.ieej.or.jp