

# International Nuclear Energy Symposium

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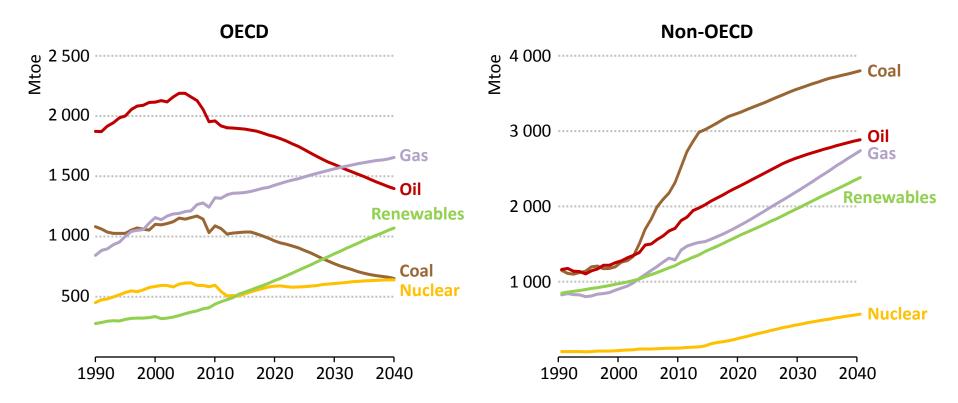


Asia-Pacific Economic Cooperation

### **Changing dynamics of global demand**



### **Energy demand by fuel**

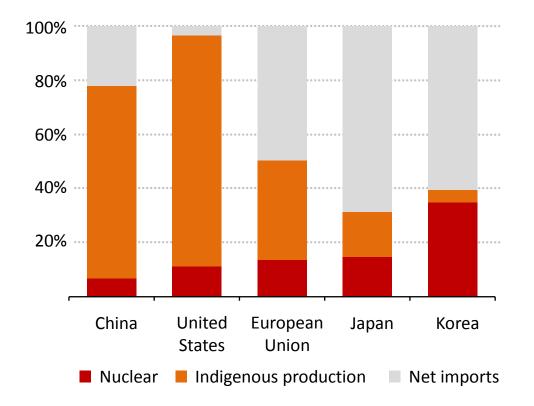


A flat demand in OECD disguise a fast changing energy mix, while developing countries thirst for all energy sources keeps increasing

### **Nuclear power & energy security**

World Energy Outlook 2014

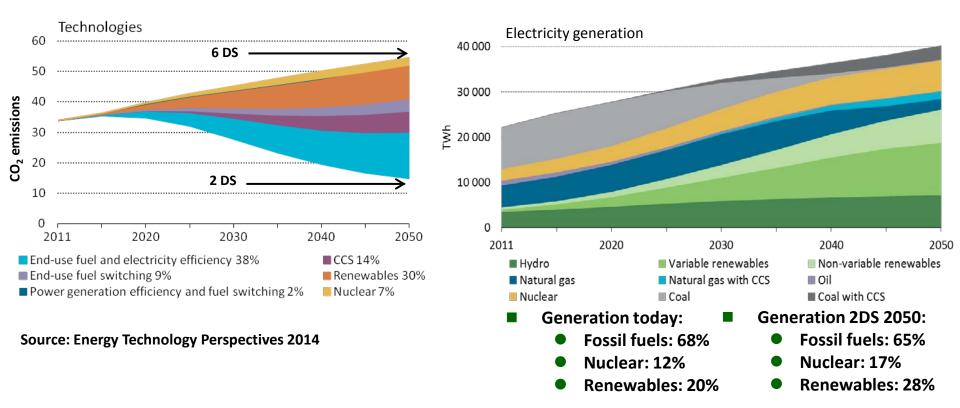
#### Share of energy demand met by domestic sources and nuclear power in 2040 in the NPS



### Nuclear power cuts dependence on foreign fuel supplies & lowers import bills for some countries



## **Decarbonising electricty generation**

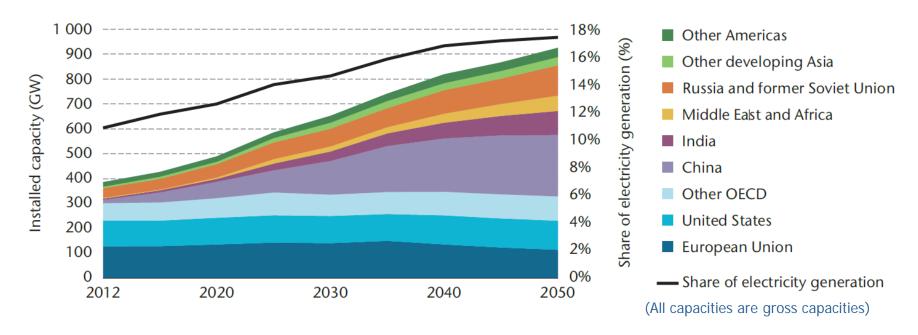


6° C Scenario – business-as-usual; no adoption of new energy and climate policies

2°C Scenario - energy-related CO<sub>2</sub>-emissions halved by 2050 through CO<sub>2</sub>-price and strong policies



## Nuclear in the 2°C Scenario (2DS)



- 930 GW by 2050 (down from 1200 GW)
- 17% share electricity (down from 24%)
- But still a formidable challenge (multiply current capacity by 2.3 in 35 years)

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# Nuclear in APEC

Nuclear country with new build plans	Nuclear country with no plans for new build	New nuclear country
China	Canada	Indonesia – plans but not yet committed
Korea	Japan	Malaysia – studying feasibility
Russia	Mexico	Thailand – plans but not yet committed
Chinese Taipei		Vietnam – preparing for construction
United States		

- Currently 250 GW of nuclear in APEC, just under 2/3rds of global installed capacity
- Energy security, environment and affordability are key drivers for new nuclear countries
- High Nuclear Case to be developed for 6<sup>th</sup> edition of the APEC Energy Demand & Supply Outlook



# Thank you

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