International Energy Agency

WORLD ENERGY OUTLOOK

World Energy Outlook 2012: In-depth study on energy-efficiency

The context: fresh challenges add to already worrying trends

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- **Economic concerns have diverted attention from energy policy and limited the means of intervention**
- **Post-Fukushima, nuclear is facing uncertainty**
- **MENA turmoil raised questions about region's investment plans**
- **Some key trends are pointing in worrying directions:**
  - ***CO_2 emissions rebounded to a record high***
  - ***energy efficiency of global economy worsened for 2nd straight year***
  - ***spending on oil imports is near record highs***

Emerging economies continue to drive global energy demand

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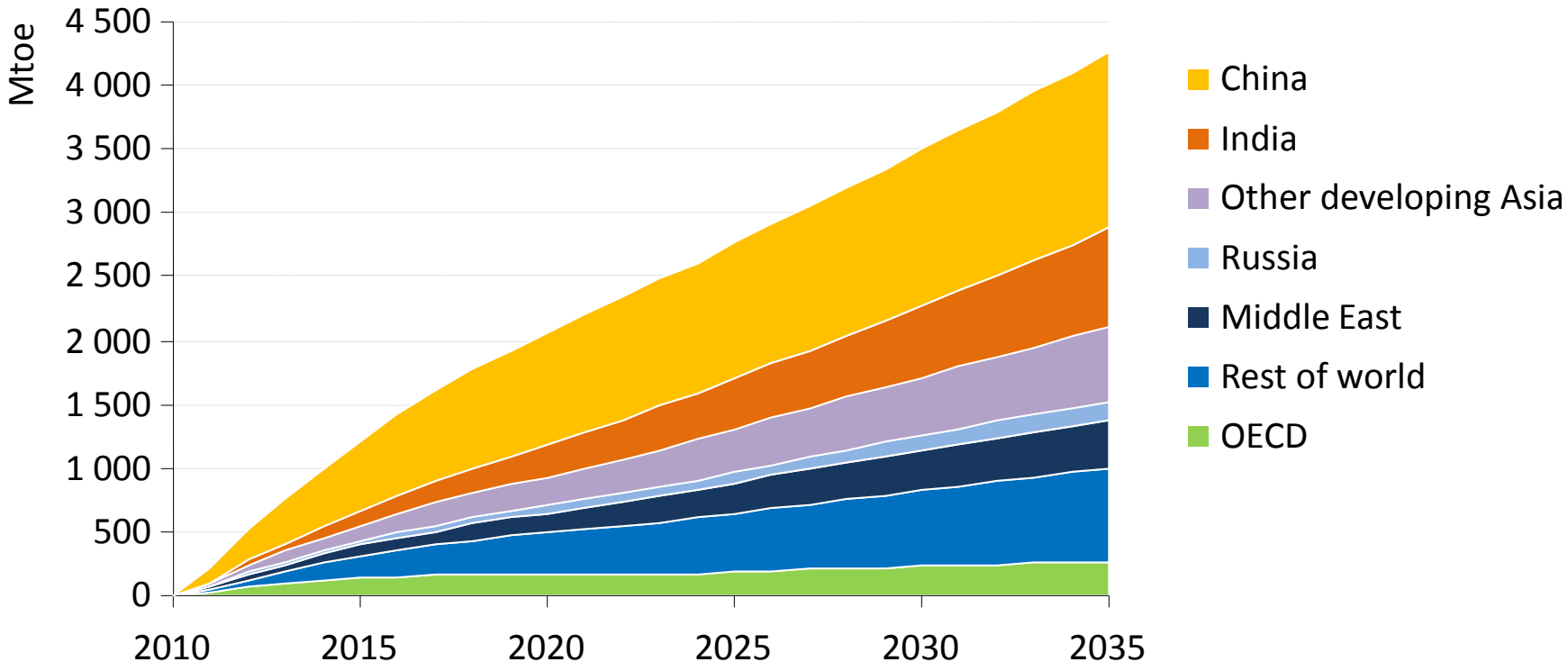
Growth in primary energy demand



Global energy demand increases by one-third from 2010 to 2035, with China & India accounting for 50% of the growth

Changing oil import needs are set to shift concerns about oil security

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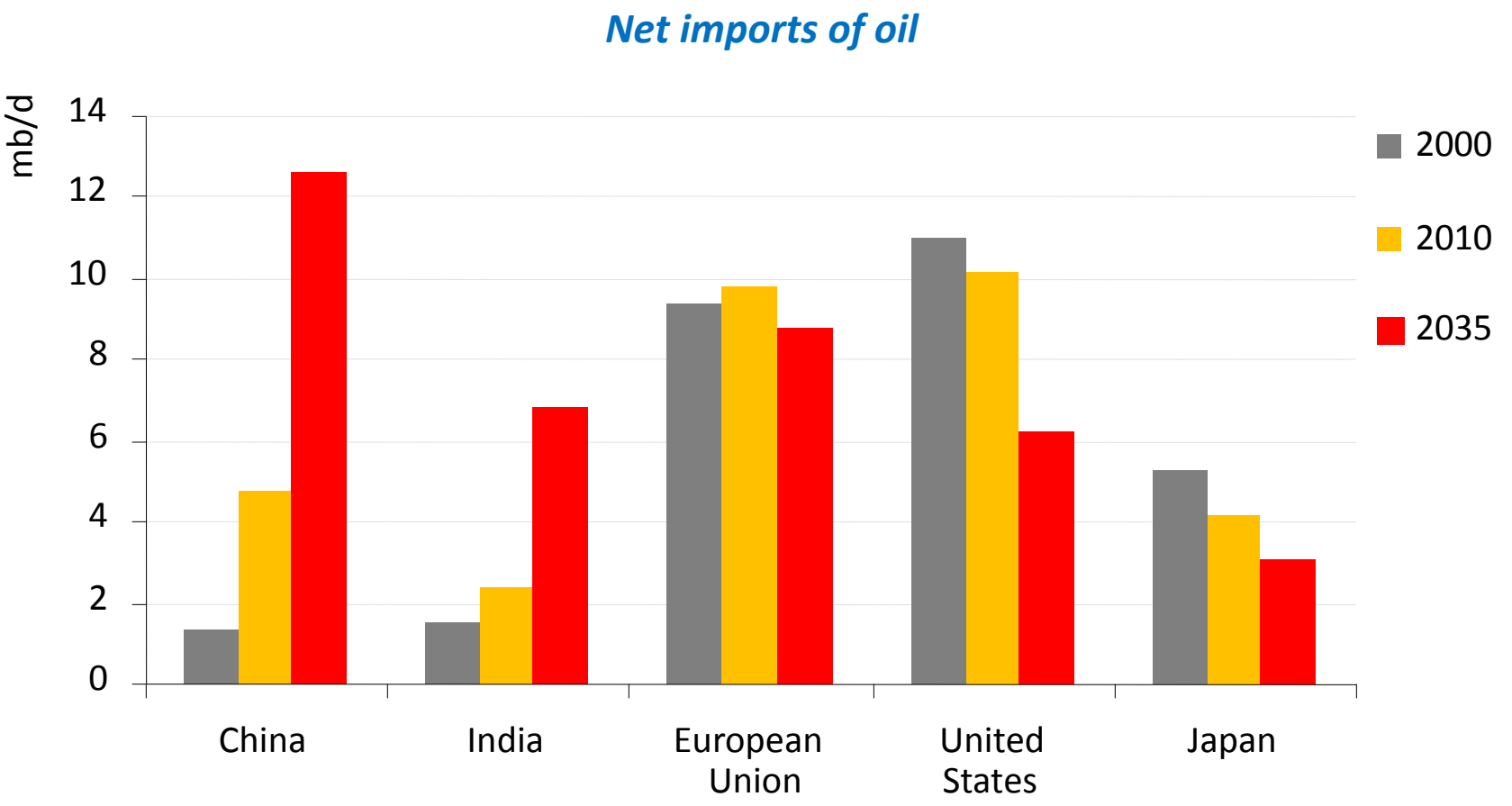

US oil imports drop due to rising domestic output & improved transport efficiency: EU imports overtake those of the US around 2015; China becomes the largest importer around 2020

The door to 2°C is closing, but will we be "locked-in" ?

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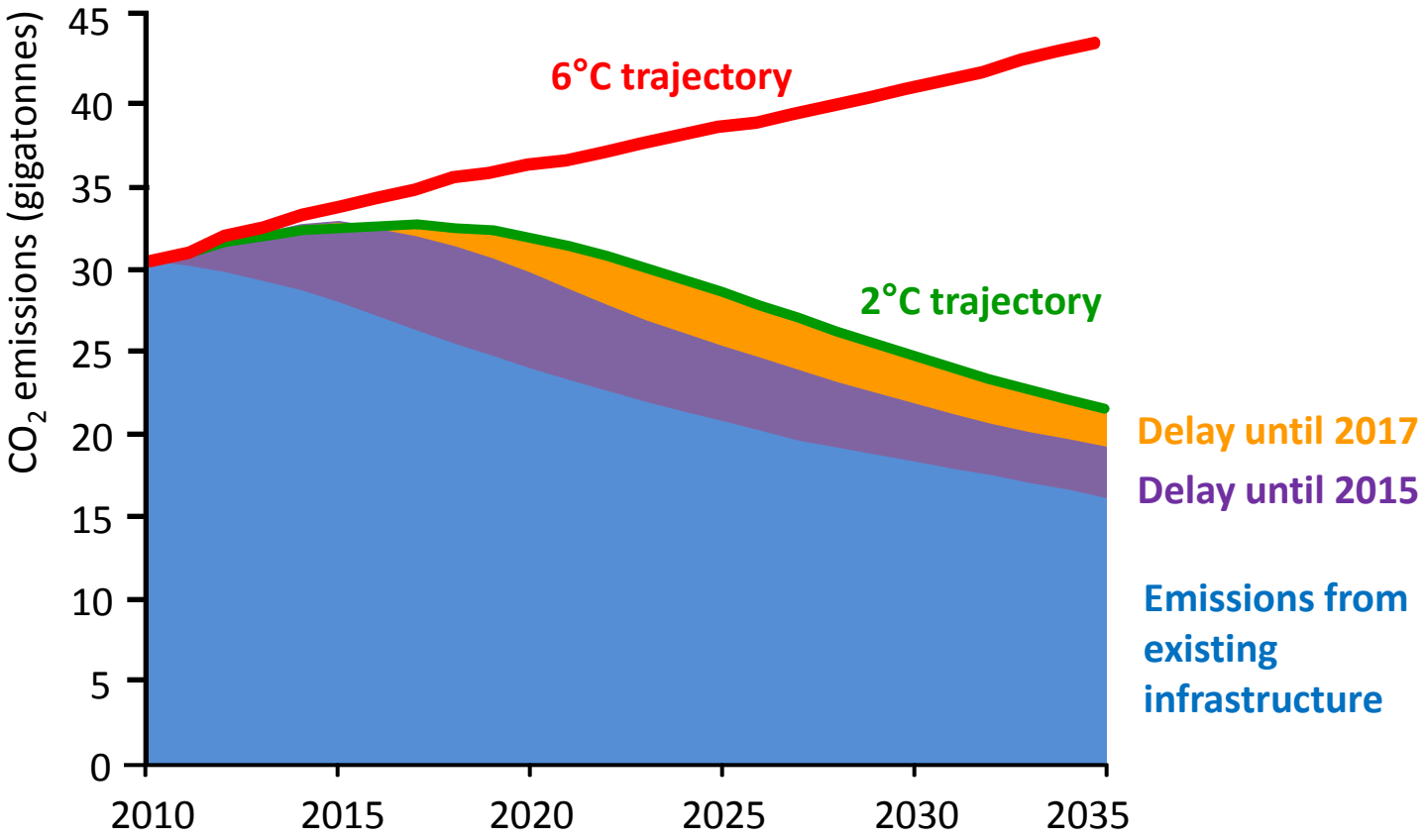

Without further action, by 2017 all CO_2 emissions permitted in the 450 Scenario will be "locked-in" by existing power plants, factories, buildings, etc

Overview of WEO-2012

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- A full update of energy projections
  - *by country, fuel & sector, to 2035*
- Objective & comprehensive analysis of topical issues
  - *Fuel focus: energy efficiency – how to unlock the potential*
  - *climate impact on energy trends*
  - *energy-water nexus*
  - *indicators to track energy access*
- In addition, 2 special reports
  - 29 May: the role of best practices ("Golden Rules") for a Golden Age of Gas
  - 9 October: first-ever in-depth outlook for Iraq (also included in full WEO)
- Full *WEO-2012* launch on 12 November

Energy efficiency: Approach and topics

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- **Energy efficiency is crucial to increase energy security and to mitigate climate change, but global energy intensity has been deteriorating**
  - ***Why? How to unlock the potentials?***
- **Quantitative country by country and sector by sector analysis, covering:**
  - ***Technical and economic potentials***
  - ***Investment and financing needs***
  - ***Macroeconomic benefits on growth, consumers spending***
  - ***Market Barriers & the role of policies***
- **A dedicated scenario exploring the costs and benefits of increasing energy efficiency deployment**
  - ***Detailed analysis of implications for the economy, energy security, energy access and environmental implications***

Organisation and timeline

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- **Work led by the Office of the Chief Economist, in co-operation with EEU and other IEA's divisions**
- **Collaboration with:**
  - **Key international organizations, including OECD, UNIDO, WB, IPEEC**
  - **Major energy producing and consuming industries**
  - **Leading international experts and policy makers in EE**
- **Milestones**
  - ***Energy Efficiency Workshop in Tokyo, 10 May 2012***
  - ***Draft chapters sent out for peer review in end-July***
  - ***WEO launch to international press, London, 12 November***