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Energy Technology Perspectives: Supporter la Transition Énergétique Durable

*Evènement parallèle à la COP 22 de la CCNUCC sur
La transition énergétique pour un développement bas carbone*

*Jean-Francois Gagné
Energy Technology Policy Division
International Energy Agency*

IEA supports the low-carbon transition

IEA: the global energy authority

- Part of the OECD family
- Founded in 1974 to co-ordinate a response to oil supply disruptions
- 2015: IEA Modernisation grounded on three main pillars
 - global energy security
 - energy cooperation and global dialogue
 - promoting an environmentally sustainable energy future

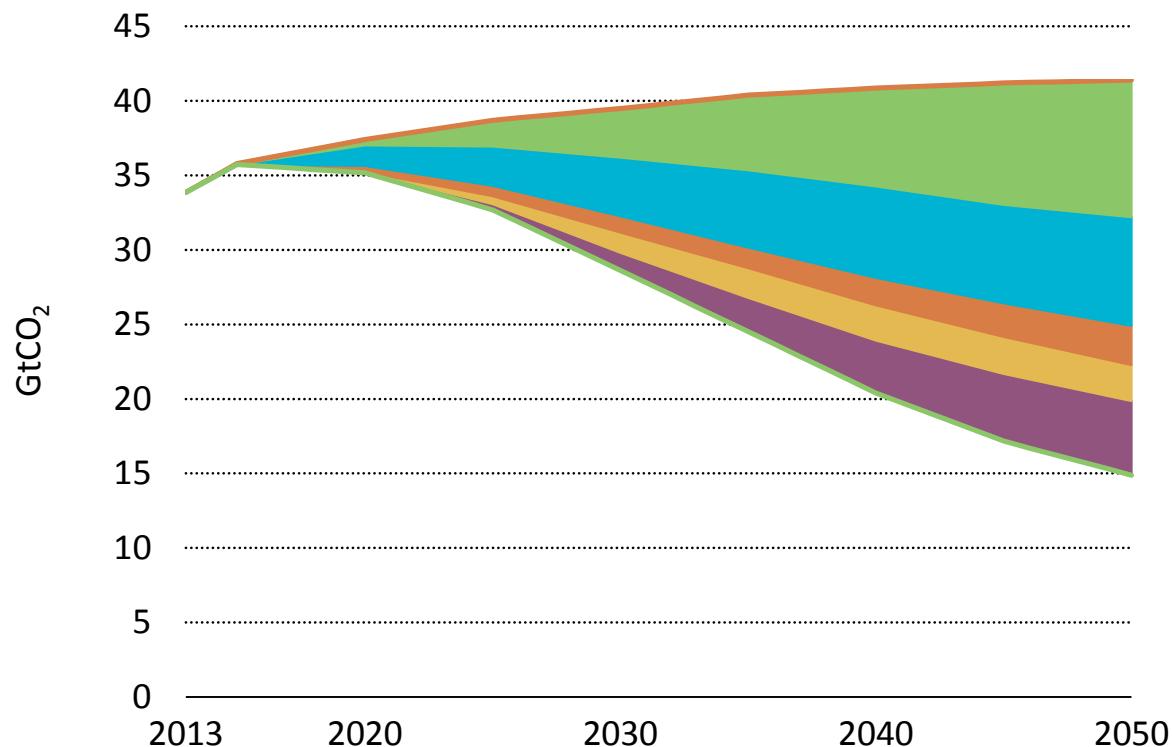


- Build on a decade of analysis on what we need to do to keep temperature increase below 2°C
- Now developing analysis on faster and deeper energy-sector decarbonisation



Sizing the scale of the challenge... ... and its solutions

Contribution of technology area to global cumulative CO₂ reductions



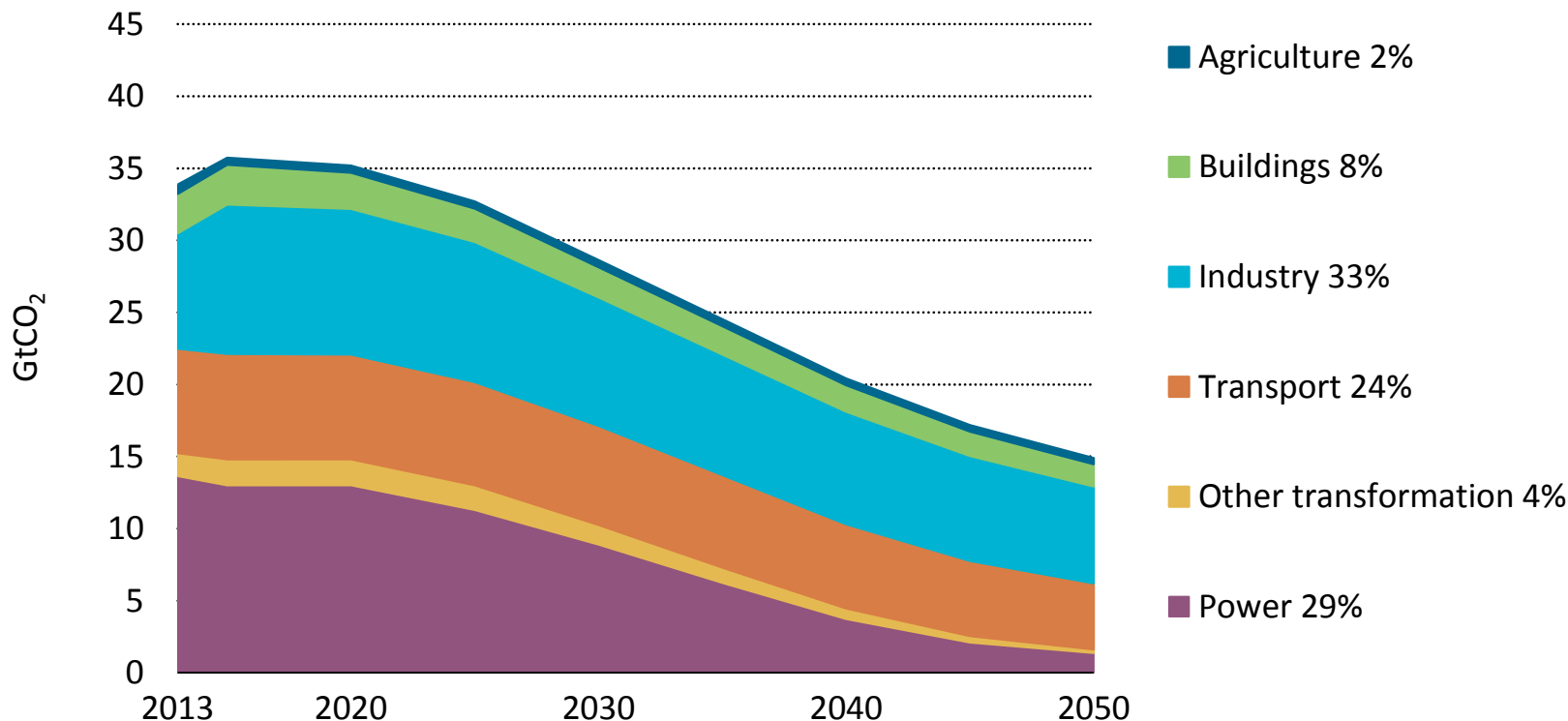
The carbon intensity of the global economy can be cut by two-thirds through a diversified energy technology mix

ETP
2016

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But the challenge increases to get from 2 degrees to “well below” 2 degrees

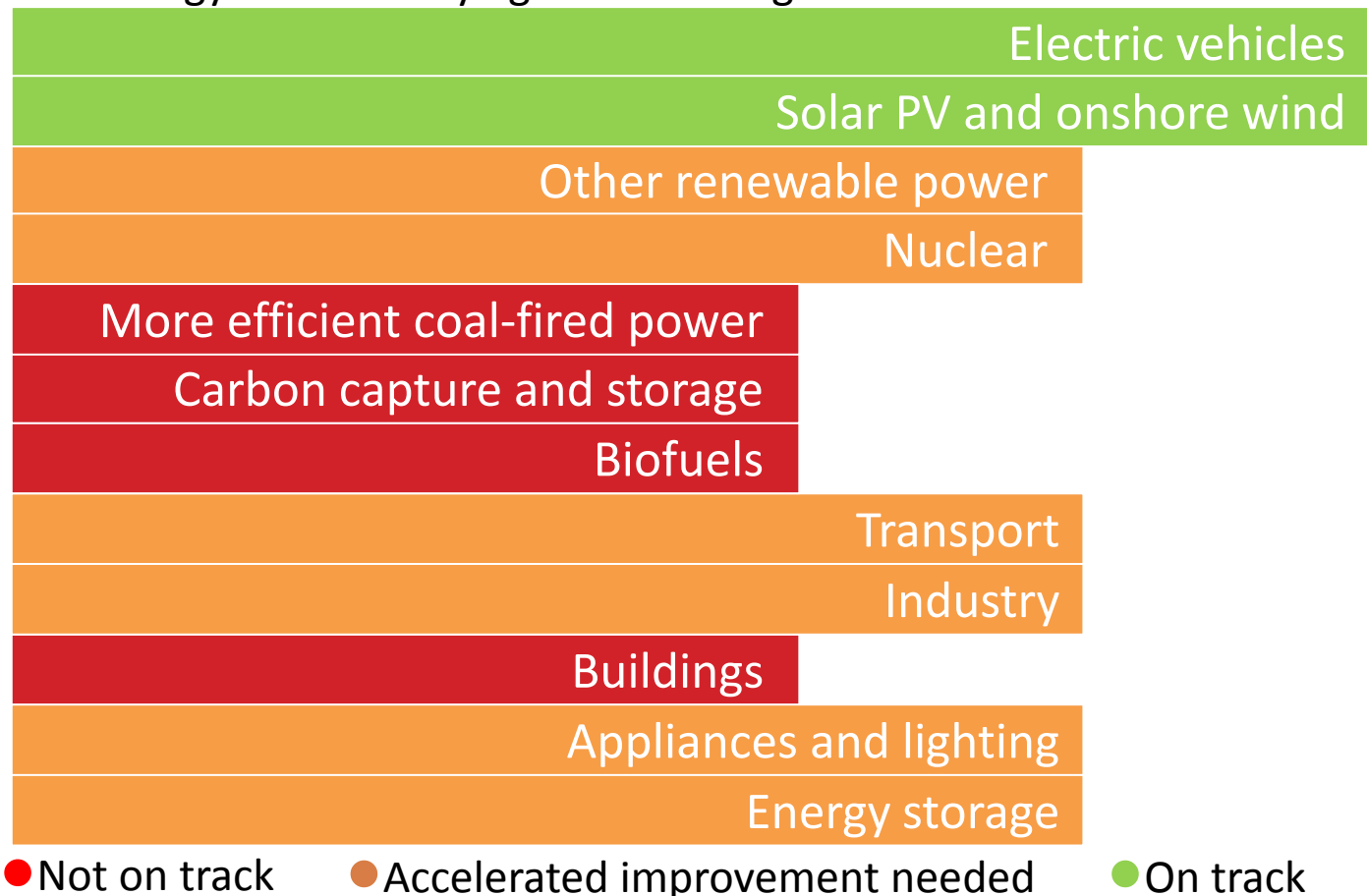
Energy- and process-related CO₂ emissions by sector in the 2DS



Industry and transport account for 75% of the remaining emissions in the 2DS in 2050.

Tracking Clean Energy Progress

Technology Status today against 2DS targets



Clean energy deployment falls short of the 2DS opportunity ETP
but recent progress in certain technologies is promising 2016

Technology Roadmapping: Bringing stakeholders together



- Goal to achieve
- Milestones to be met
- Gaps to be filled
- Actions to overcome gaps and barriers
- What and when things need to be achieved



- 32 global publications, 21 different technology areas
- Re-endorsed at G7 Energy Ministerial Meeting in May 2016 (Kitakyushu)
- New Cycle for Implementation:
 - Near-term actions
 - Regional Relevance
 - Key partnerships (e.g. Finance)
 - Metrics and Tracking



Low-Carbon Technology Roadmaps

Technology Collaboration Programmes

■ The IEA is the only energy organisation with 40 years experience of international technology collaboration

- Cross-cutting activities
- End use and energy efficiency
- Renewable energy and hydrogen
- Fossil fuels
- Fusion power



The IEA works around the world to support an accelerated clean energy transition that is

enabled by real-world SOLUTIONS

supported by ANALYSIS

and built on DATA