



# IPLOCA

TOGETHER - DELIVERING SUSTAINABLE ENERGY INFRASTRUCTURE

## Energy Transition

Energy Transition Committee

**Andy Ball** – Chair

Chair: Andrew Ball

Pablo Brottier

Dean Cowling

Gian Marco Dondi

David Lukas

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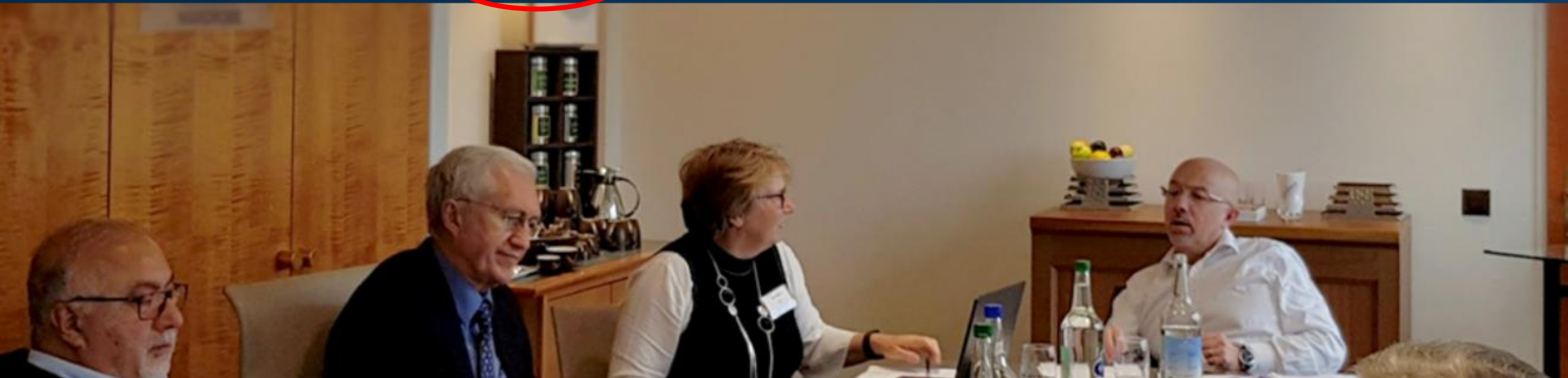
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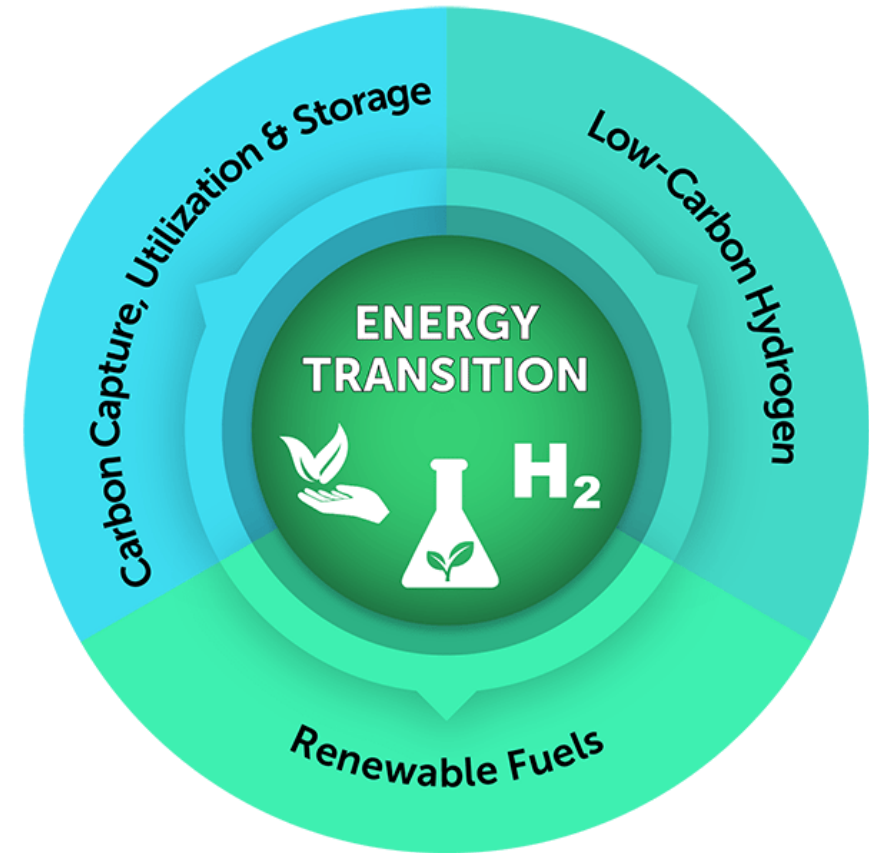
- **25+ key documents uploaded to date**



- **All georgical areas populate**



- **Policy**
- **Standards**
- **Technologies**
- **Materials**
- **Research and Development**



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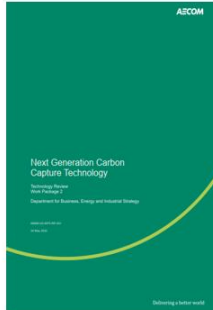
**Europe**  
Energy Transition Information

Information on hydrogen and associated technologies such as carbon capture and storage for Europe.

**Policy & Standards**  
Next Generation Carbon Capture Technology  
The world needs to capture, use, and store gigatons of CO<sub>2</sub>. Where and how?

**Technologies & materials**  
**Research & Development**  
Etude exploratoire sur le potentiel du Power-to-X hydrogène vert pour l'Algérie  
Hydrogen 2022 post-event report: tracking progress towards a clean hydrogen economy  
Energy Transition Outlook Europe: A View from the Transition Leaders

**Net Zero**  
International Green Hydrogen Report 2023  
RWE and Badenova to build green hydrogen nucleus on Upper Rhine



**North & South America**  
Energy Transition Information

Information on hydrogen and associated technologies such as carbon capture and storage for North & South America.

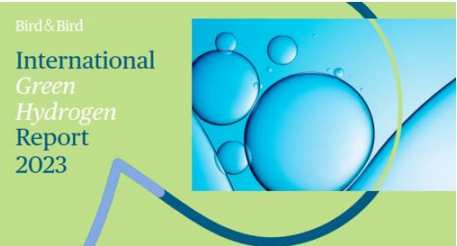
**Policy & Standards**  
Hydrogen Insights 2023

**Technologies & materials**  
Gas transmission: Hydrogen successfully tested in compressor prime mover  
Hydrogen-fueled gas turbine engine could lead to lower carbon intensity  
Converting High Hydrogen Fuel to Electricity

**Research & Development**  
Canada – Partnership in global CCUS initiative leverages international investment in three Alberta-led projects  
Key Takeaways from the 2023 Canadian Hydrogen Convention

**Net Zero**

**U.S. National Clean Hydrogen Strategy and Roadmap**



Caterpillar: Confidential Green



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Caterpillar: Confidential Green

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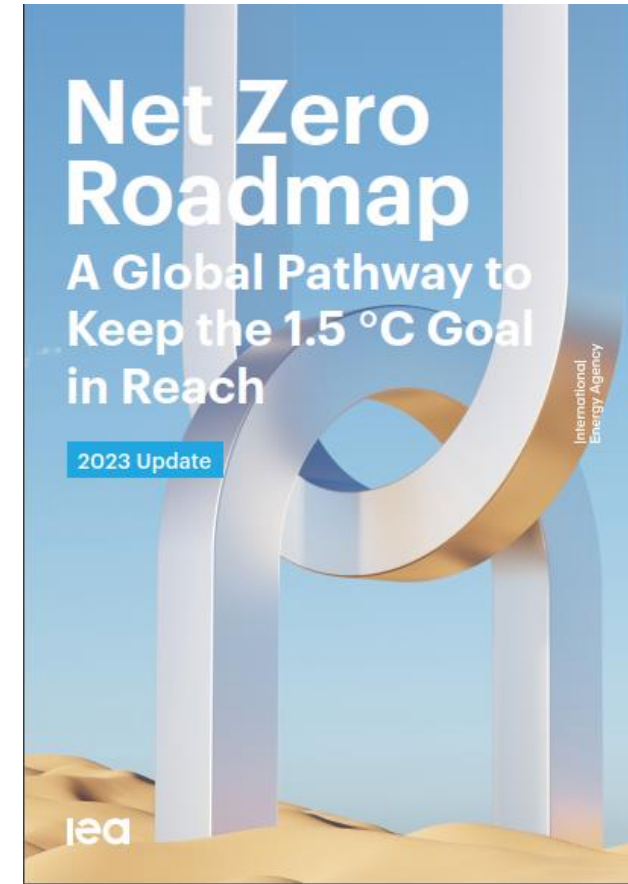
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## Net Zero Road Map 2023 Update from International Energy Agency

### Key takeaway ...

- **In 2021, the IEA published its landmark report, Net Zero by 2050: A Roadmap for the Global Energy Sector.** Since then, the energy sector has seen major shifts. Based on the latest data on technologies, markets and policies
- **The case for transforming the global energy system in line with the 1.5 °C goal has never been stronger.** August 2023 was the hottest on record by a large margin, and the hottest month ever after July 2023. The impacts of climate change are increasingly frequent and severe, and scientific warnings about the dangers of the current pathway have become stronger than ever.
- **Global carbon dioxide (CO<sub>2</sub>) emissions from the energy sector reached a new record high of 37 billion tonnes (Gt) in 2022, 1% above their pre-pandemic level, but are set to peak this decade**
- **Ramping up renewables, improving energy efficiency, cutting methane emissions and increasing electrification with technologies available today deliver more than 80% of the emissions reductions needed by 2030.**
- The scaling up of clean energy is the main factor behind a decline of fossil fuel demand of over 25% this decade in the NZE Scenario. But well-designed policies, such as the early retirement or repurposing of coal-fired power plants, are key to facilitate declines in fossil fuel demand and create additional room for clean energy to expand. In the NZE Scenario, strong growth in clean energy and other policy measures together lead to energy sector CO<sub>2</sub> emissions falling by 35% by 2030 compared to 2022.



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## Net Zero and the Road to success

New Section required to support the New standards, specification and policy

### Section 14 (22), proposed subheadings

*“we need to appoint / seek support for the following headings “*

- **Foreword** – Andy Ball
- **Policy** - ??
- **Standards / specifications** - ??
- **Technologies** ??
- **Materials** - ??
- **Research and Development** - ??
- Any other heading required ?

#### Meeting Notes:

1. Health and Safety section, esp. for CO2 lines.
2. Policy – country specific?
3. Policy & Standards need to be different sections
4. Net Zero defined, add process for Life Cycle Assessment

#### Committee members to add:

- Petrobras
- Sime Engineering
- Bonatti
- Maats

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*Thank you , and any questions*

