United Nations Framework Convention on Climate Change

Agenda item 4.a.ii

Emerging climate technologies

Report on thematic dialogues at APCW

Technology Executive Committee, 23rd meeting

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Background

As per activity 2 of the thematic area Innovation of its workplan 2019-2022, the TEC is to analyze **key emerging climate technologies**. This includes:

- A **technical paper** on emerging climate technologies in the energy supply sector; and
- **Thematic dialogue(s)** to organize in conjunction with regional climate weeks.

The thematic dialogues

Main outcomes on green hydrogen

- In the race towards a net-zero and resilient future, green hydrogen is becoming increasingly recognized as a **viable solution**. It is both technically and economically ready to be scaled up.

- While many countries' existing hydrogen strategies are rich in ambition, they are poor in policy detail, stressing the **urgent need for joint public and private sector collaboration**.

- There is a need to overcome social barriers to success and nurture a **well-informed society** that embraces the energy shift.

Main outcomes on ocean energy

- Offshore RE have **huge potential** with multiple co-benefits, particularly **in SIDS, yet remain unexploited**. This opens up the opportunity to promote innovation, research and development.

- The marine infrastructure of most countries in the Asia-Pacific region is not highly developed and demonstration **projects are still small scale**. This makes it difficult to predict possible environmental impacts and whether the projects can deliver the desired amount of energy.

- The **need is for a local supply chain** that can be established to bring down the cost of importing the necessary technology and skill sets needed to deploy the ocean energy technology.

Thank you!

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