

What is EU air transport regulation?

The regulation aims to ensure that European Union (EU) air transport meets the EU's climate targets for 2030 and 2050, and plays a key role in delivering on the European climate law, while preserving level playing field on the internal market. RefuelEU aviation

How does the European Commission fund CO<sub>2</sub> transport & storage projects?

The European Commission provided over USD 500 million to CO<sub>2</sub> transport and storage projects under its Connecting Europe Facility programme that funds projects across member states. This follows the Commission's proposed Net Zero Industry Act, which was released in March 2023 and sets an annual CO<sub>2</sub> injection target of 50 Mt CO<sub>2</sub> /yr for 2030.

Should EU airports refuel with aviation fuel?

Aircraft operators departing from EU airports must refuel with the aviation fuel necessary for their entire flight, avoiding the excessive emissions related to extra weight and minimising the risks of carbon leakage caused by tankering practices. EU airports' managing bodies must facilitate access to SAF.

How does the TEN-T regulation affect airport infrastructure?

Airport infrastructure needs to adapt as the aviation sector responds to environmental challenges and new market segments. The trans-European transport network (TEN-T) regulation promotes interconnection, multimodal mobility, and interoperability of national networks, which impacts airport infrastructure.

What is the connecting Europe facility-energy (CEF-E)?

The Connecting Europe Facility-Energy (CEF-E) is a funding instrument to help implement large-scale cross-border energy infrastructure in the European Union. In 2023, four CCUS hubs were awarded over USD 500 million through CEF-E, a massive increase from the USD 170 million awarded to three CCUS hubs in 2022.

Is fully electric sustainable taxiing the future of aviation?

Fully electric sustainable taxiing is expected to become the standard procedure in aviation by 2030\*. Airport infrastructure also needs to adapt accordingly as the aviation sector evolves in order to respond to environmental challenges and new market segments.\*

Futura Energy Ireland has announced its intentions to build Europe's first iron-air battery energy storage system (BESS). The company has submitted a planning application for the proposed Ballynahone Energy ...

The group will support the aviation industry's adoption of LH<sub>2</sub> transportation and energy storage solutions by:

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Developing and demonstrating LH2 refuelling technologies scaled-up for future large commercial aircraft; ...

For short-duration energy storage assets, there are really three key revenue streams for energy storage assets in Europe. The first one is capacity payments, which have become a broadly ...

Transport and storage infrastructure for CO<sub>2</sub> is the backbone of the carbon management industry. Planned capacities for CO<sub>2</sub> transport and storage surged dramatically in the past year, with around 260 Mt CO<sub>2</sub> of new ...

The Whole European Value Chain. This is an event where you are guaranteed to meet over 2000 delegates from across Europe's energy storage value chain.. With 44 countries represented in 2024, the Summit brings together investors, ...

The LUT Energy System Transition model applied for the power sector in Ram et al. [], Bogdanov et al. [] and Breyer et al. [] is further expanded to other energy sectors and its ...

Europe continues to make progress to advance CO<sub>2</sub> transport and storage infrastructure with now over 160 Mt CO<sub>2</sub> of storage capacity planned by 2030, mostly around the North Sea. Notably, the Porthos transport and ...

at a later stage or to deliver the heat directly. For example, solid-state thermal energy storage can be used for both purposes. Table 1. CETO SWOT analysis of the competitiveness of novel ...

Onboard energy storage in rail transport: Review of real applications and techno-economic assessments ... transport currently accounts for almost 25% of Europe's greenhouse gas emissions and is the primary ...

Response: Hydrogen storage locations within Europe are of great significance since they provide an energy supply stability in the short and the long term. Furthermore, based on the recent example from the war in ...

The final annualised energy costs for transport remain around 300-450 bEUR per year through the transition period, with a massive reduction for road transport, while increases ...



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