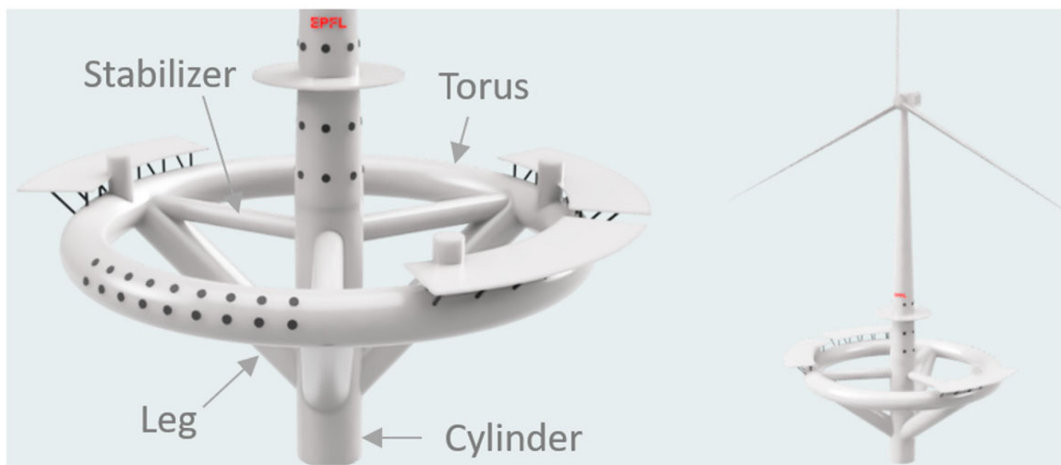


Offshore floating wind platform for green energy production



Offshore wind turbine detailed

Ref. Nr

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Keywords

Wind energy production,
green hydrogen, offshore
floating platform

Intellectual Property

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Description

Offshore wind turbines can benefit from a more constant and undisturbed flow of air compared to on-land wind turbines. Floating offshore wind turbines are installed on platforms that are mainly emerged from experience from the oil and gas industry. They are expensive and not optimized. Here we propose a floating platform made of composite materials therefore lighter, easy to assemble, cheaper and maintenance ease.

Advantages

The system is particularly advantageous because it combines green hydrogen production and electric power generation in a single unit exploiting a renewable energy source such as wind so that no carbon dioxide is emitted into the atmosphere. For instance, the system of the invention can be connected to a local electrical grid and be used to supply electric power to isolated areas acting as an energy island.

Applications

- Wind energy production
- Green hydrogen production
- Energy island for remote areas