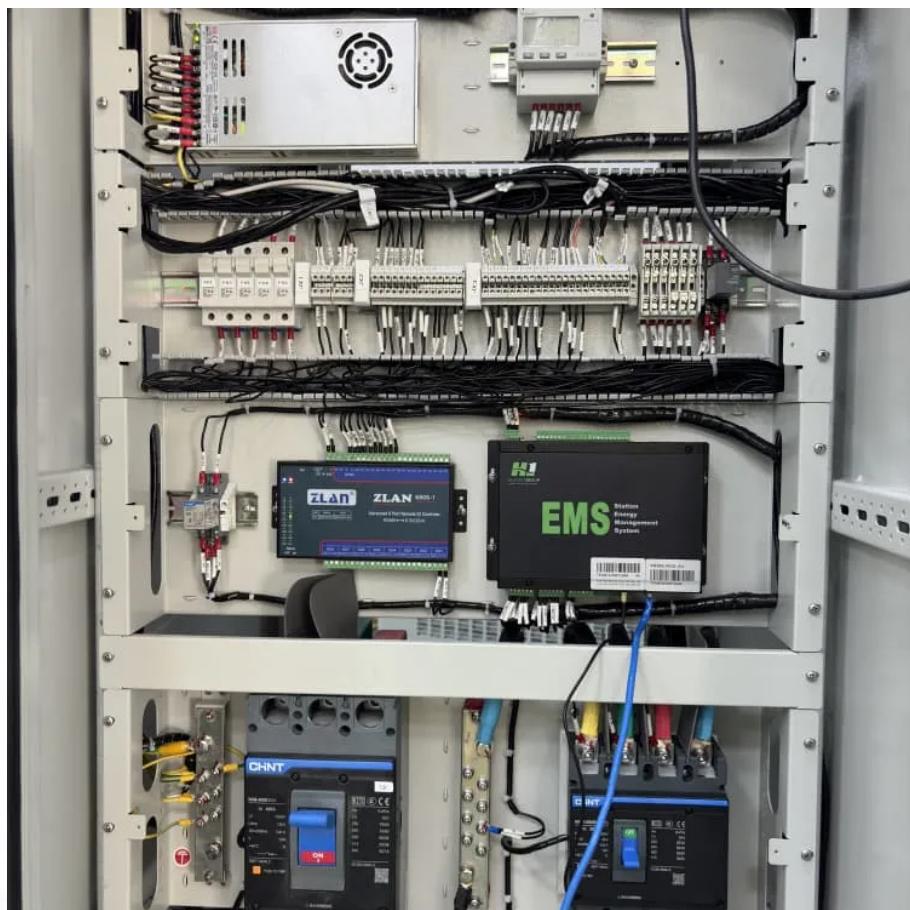




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# Castries floating wind power storage





## Overview

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Can a floating wind farm use a battery energy storage system?

Modular Li-ion battery energy storage systems are deployed on the seabed and connected to floating wind turbines and offshore platforms via flexible cables. The seawater can effectively transfer and store the heat generated by the battery energy storage system. There is still no concrete solution for floating offshore wind farms.

Can energy storage improve offshore wind power stability?

Equipping floating offshore wind turbines with a suitable energy storage system is the primary way to improve their power stability. At the same time, the energy storage system can also alleviate offshore wind power's "wind abandonment" problem. The basic architecture of an offshore floating wind farm with energy storage is shown in Figure 5.

Can energy storage systems be deployed on floating offshore wind & hydrogen?

Fig. 6 shows a full picture of investigated energy storage technologies in this study for enabling 'floating offshore wind + hydrogen'. Table 3 outlines the characteristics of corresponding energy storage technologies. Overall, energy storage systems can be deployed on the floating offshore platforms or on the seabed.

Can energy storage control wind power & energy storage?

As of recently, there is not much research done on how to configure energy storage capacity and control wind power and energy storage to help with frequency regulation. Energy storage, like wind turbines, has the potential to regulate system frequency via extra differential droop control.



## Castries floating wind power storage



### wind power storage

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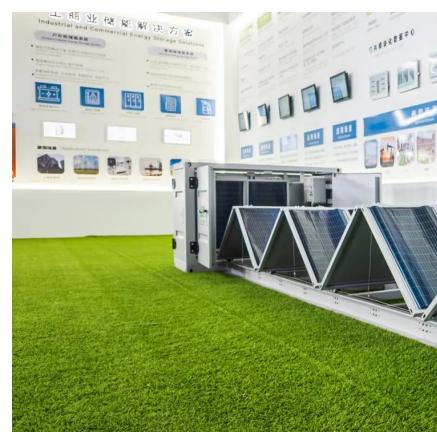
## How is wind power currently stored?

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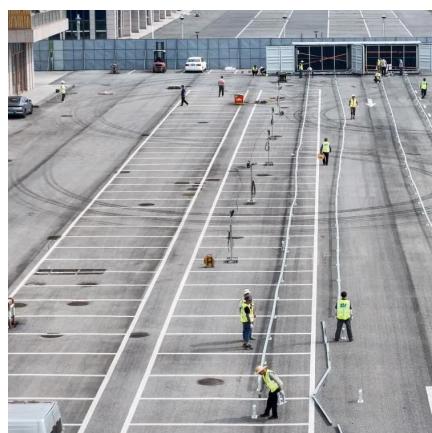
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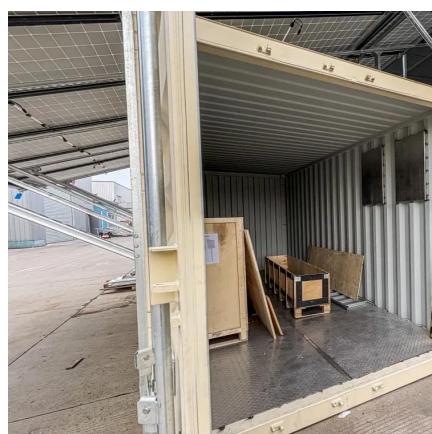
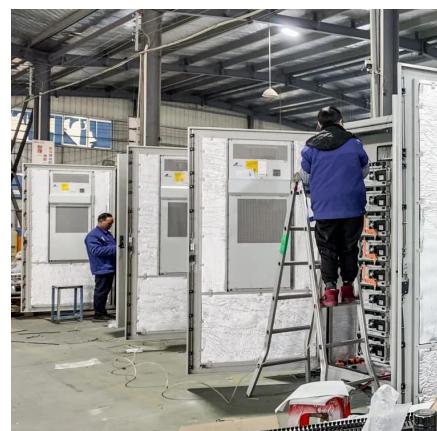


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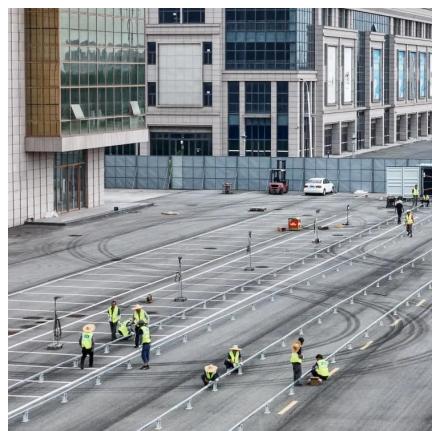
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