

Abu Dhabi solar container communication station inverter grid-connected lightning protection





Overview

What does the Lightning project mean for the United Arab Emirates?

Both parties have joined forces to support the United Arab Emirates in their net-zero targets. The Lightning Project will replace the existing offshore turbine generators with cleaner and more sustainable onshore power sources from Abu Dhabi, such as solar panels and local nuclear power.

What is a lightning project?

Read our privacy policy for more info. Adnoc and AD Power developed Lightning project, a subsea high-voltage direct current (HVDC) transmission grid to supply power from shore to the various offshore facilities in Abu Dhabi in the UAE.

When will Abu Dhabi's Lightning project be a sanctioned project?

This so-called Lightning Project should be tendered in this BOOT basis after the completion of the front end engineering and design (FEED) work in 2021 for a sanction in 2022 and first operations in 2025. — July 2020 — Abu Dhabi Authorities are keen to show example in Climate Change policy in speeding up the project 's development.

Will ADNOC use subsea HVDC transmission technology on Lightning project?

To do so, Adnoc is considering to use subsea HVDC transmission technology on Lightning project, enabling to transport large power over long distances with nearly no losses. In a first step, this subsea grid should be connected to AD Power national grid with a transportation capacity of 3200 MW.



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