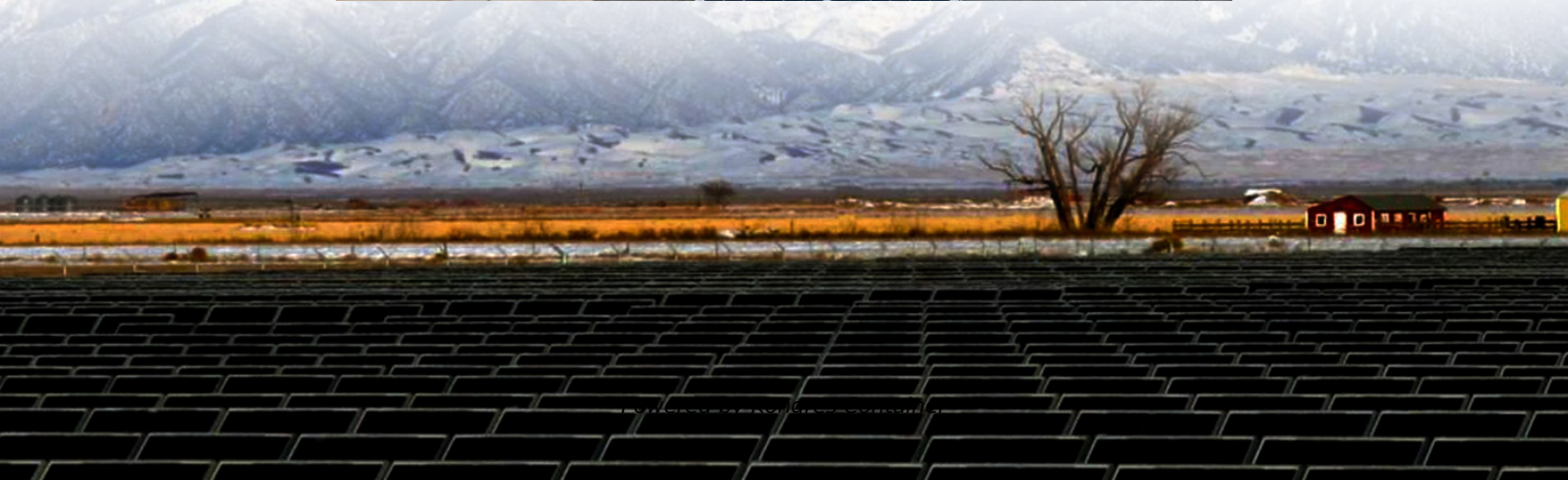


## Kongres Container

# New requirements for wind power management at communication base stations



## Overview

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What is GFM control for offshore wind?

GFM control for offshore wind would be beneficial for grid stabilization and grid resilience enhancement by allowing the wind power plants to have more active and dynamic roles in power system operations.

Are HVDC converter stations compatible with offshore wind farms?

Offshore wind farms do not suffer from the vendor incompatibility that HVDC converter stations do. However, the technology for controlling the flow of power between HVDC offshore wind platforms and onshore injection points, even with an AC mesh grid, is still under development, and the availability of necessary trans.

What ancillary services are included in WTG and wind power plant control?

Sections III and IV reviewed WTG and wind power plant control strategies and ancillary services related to grid compliance, grid support, and resilience.

How many Hz does a wind power plant need?

e.g., Denmark and Germany require 2.5 Hz/s, and Great Britain requires 2.5 Hz/s and 1 Hz/s for DC- and AC-connected OWPPs, respectively. Both active power and frequency control contribute to the frequency stability of wind power plants.

Can a wind turbine be controlled as a GFL or GFM source?

Similar to other IBRs connected to a power system, wind turbines can be controlled as either GFL or GFM sources if they are equipped with power electronics inverters to control the power flow, i.e., Type 3 or Type 4 turbines.

Do 5G communication base stations have active and reactive power flow constraints?

Analogous to traditional distribution networks, the operation of distribution systems incorporating 5G communication base stations must adhere to active and reactive power flow constraints.

## New requirements for wind power management at communication b

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