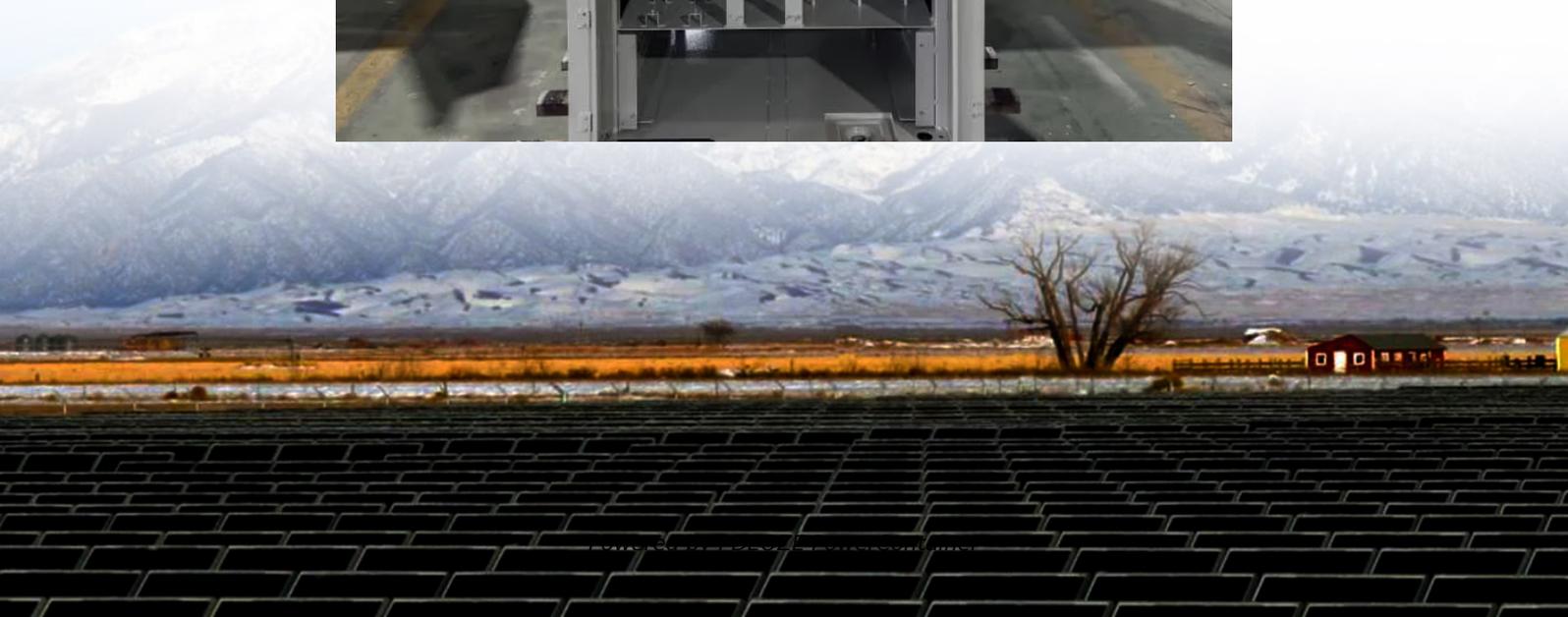


## **PDEOZE PowerContainer**

# **North Korea Communication Base Station Inverter Grid Connection Construction Project**



## Overview

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Why are foreign inverters entering Korean PV market?

As the volume of Korean PV market increases, many foreign inverter players like Chinese companies and European makers have been breaking into Korean PV market by establishing sales points and service networks in Korea. On the other hand, Korean government is tightening up the criteria of safety standards related with inverters.

Why are PV systems combining with ESS so popular in Korea?

In Korea, PV systems combined with ESS were previously spotlighted, because the system has been awarded with higher subsidies, multiplied REC (Renewable Energy Certificate) values. However, the systems combining PV and ESS recently suffered from many unspecified fire accidents.

Why is Korea trying to change its energy infrastructure?

Korea has been trying to change its energy infrastructure from using a centralized system with more than 75 percent coal and nuclear into a more distributed system to accommodate more renewable energy resources.

Does KEPCO pay grid connection fee for small-scale PV installation?

In Korea, grid connection fee for small-scale (< 1 MW) PV installation has been paid by KEPCO with the policy of unlimited grid connection guarantee for small-size installation since 2017.

What is the cost of grid reinforcement for grid interconnection?

Power utility bears the cost of grid reinforcement for grid interconnection (financial burden). Lack of power facilities for grid connection Introduction of Flexible Interconnection (flexible curtail.) Grid Stability - Grid Stability - Operation cost: 71.5\$/kW/1 oper. To keep the voltage quality, DER hosting capacity of feeder should be limited.

What is carbon-free island Jeju by 2030 project?

'Carbon-free Island Jeju by 2030 Project' was jointly planned by Jeju provincial government and central government in 2012 and will be expanded to more islands in Korea. Wind power, PV, geothermal, ESS, and EV will be utilized within the smart grid infrastructure to increase the NRE portion in the energy mix for the islands.

## North Korea Communication Base Station Inverter Grid Connection

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