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Tallinn s requirements for wind power construction of solar container communication stations

Overview

How to minimize LCOE (m) in PV and wind power plants?

We optimize the capacity of each built PV or wind power plant, the strategy of energy storage, the type of electricity transmission, and the construction period for PV and wind power plants to minimize the LCOE (Mϑ) by solving a cost-minimization problem in each country, which is constrained by the supply of minerals and the demand for electricity:.

How to determine the location of offshore wind power plants?

To determine the location of offshore wind power plants, we compile the data of territorial sea area from the Maritime Boundaries Geodatabase 74, depth of water from the Radar Topography Mission Global Enhanced Slope Database 73, and geo-locations of the marine ecological reserve from the National Marine Data and Information Service 72, 75.

How many PV and wind power plants are there?

We obtain the locations of 22,821 potential PV and wind-power plants, which are distributed in 192 countries. Second, we divide the area used to construct a new power plant into pixels at a resolution of 0.0083° in latitude and 0.0333° in longitude.

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