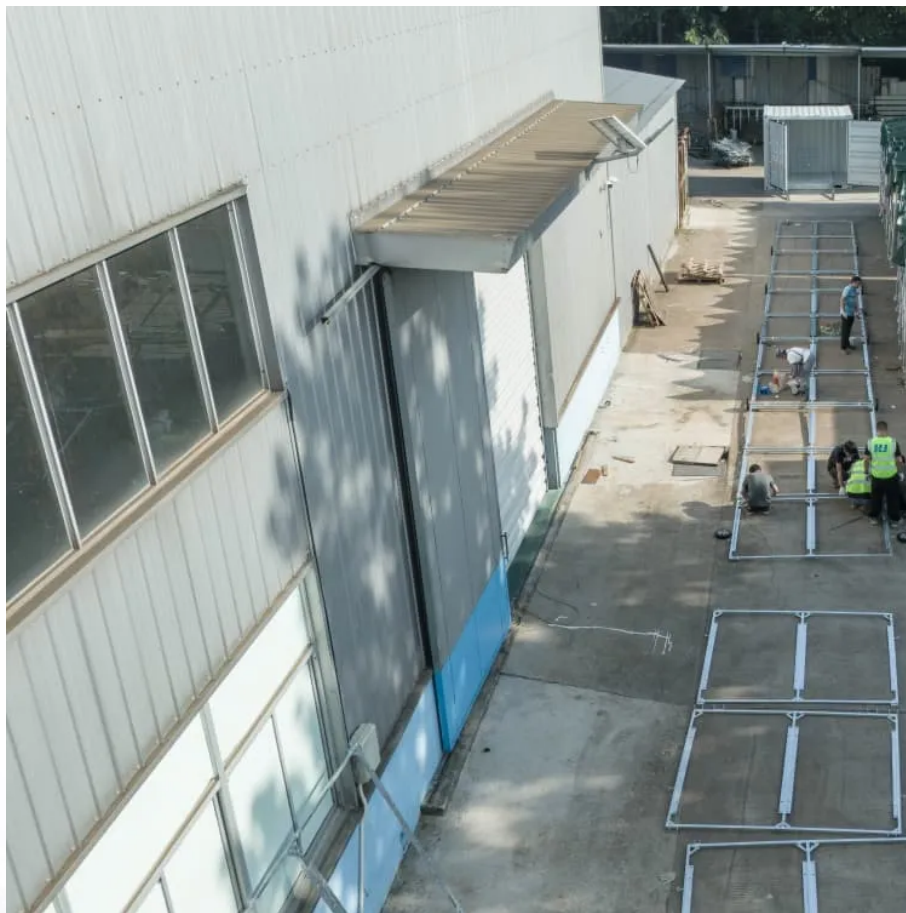


A-Core Container

Economics of Wind Power with Energy Storage



Overview

We develop a nonlinear mathematical optimization program for investigating the economic and environmental implications of wind penetration in electrical grids and evaluating how hydropower storage could be used to offset wind power intermittence.

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After energy storage is integrated into the wind farm, one part of the wind power generation is sold to the grid directly, and the other part is purchased and stored with a low price, and then is sold with a high price through the energy storage system.

baseload power, or serve as a peaking plant and capture upswings in electricity p. rm in central Tex. , load in either Dallas or Houston, and a CAES plant whose location is pro. when prices are highest; a price cap. nd capacity payment likewise results in a large (15. GW) profit-maxim.

We develop a nonlinear mathematical optimization program for investigating the economic and environmental implications of wind penetration in electrical grids and evaluating how hydropower storage could be used to offset wind power intermittence.

With the growth of new energy demand, energy storage technology has a broad application prospect in solving the intermittency problem of wind power generation, improving the stability of.

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