

Italian container power generation model





Overview

The aim of this study is to investigate the long-term planning of the Italian power sector from 2021 to 2050. The key role of photovoltaic and wind technologies in combination with power-to-power systems base.

What is a simplified model of the Italian power sector?

A simplified model of the Italian power sector is implemented with only batteries as new energy storage option. Moreover, the model period is set from 2021 to 2040. These two simplifications have been made to limit the model's complexity and avoid excessive computational effort.

What resources does Italy use to produce electricity?

The Italian context At present, the Italian electricity supply strongly relies on fossil power plants, which exploit resources such as coal, oil, natural gas and non renewable industrial and municipal waste [41].

What size generator container do I Need?

Our generator containers for Type 2, 3, and 4 gas engines have a standard 40-foot length. Width and height depend on engine type, the application (power generation only or CHP) and ambient conditions. Customized sizes to accommodate special project requirements are available on request.

What is a type 6 generator container?

Our Type 6 generator containers consist of two or three pre-assembled modules, depending on the engine type and the application. The overall package (gas engine, container, and auxiliary components) is available for 65, 70, 75 and 80 dB (A) in 10m (surface sound pressure level according to DIN 45635).

Which genset containers are available?

All genset containers are also available with an option for -40°C and most variants can be upgraded for +45°C. A broad range of options, both mechanical and electrical, are available to ensure that our containers meet



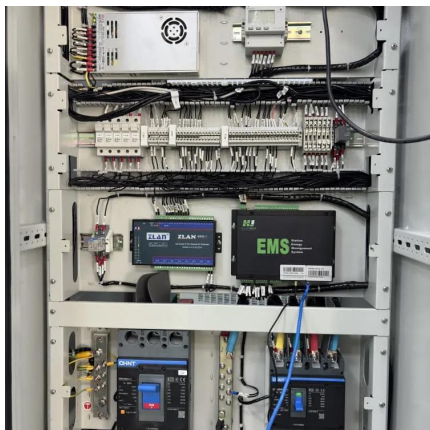
the project requirements. For example, we offer several heat recovery configurations and exhaust after treatment systems.

What is the standard ventilation for genset containers?

The standard ventilation is designed for ambient temperatures from -25°C to +40°C. The genset containers can be equipped with several additional features to enable operation at lower temperatures on request. Type 6 containers are available with a similarly broad range of options that we offer for the Type 2 / 3 / 4 containers.



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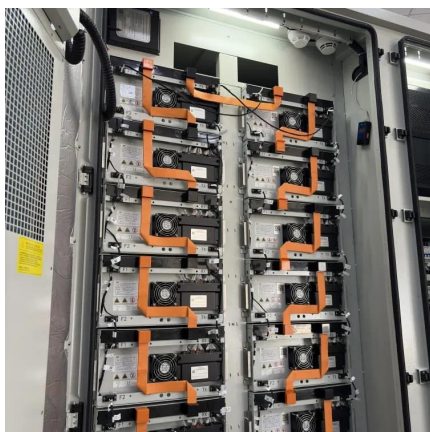


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The model used in this work is based on Plexos, a state-of-the-art power system simulator that can simulate electric markets with nodal and single



substation granularity, ranging from long ...



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