

# **Distributed energy storage in St Petersburg Russia**





## Overview

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Are distributed energy resources a problem in Russia?

Distributed energy resources are currently ignored in the long-term planning for Russian power system development, except in remote and isolated areas. Despite this, some changes are taking place in the country, albeit rather slowly.

What is the capacity of distributed generation in Russia?

Table 1. Typical cases of distributed generation in Russia Capacity of 25-600 MW Technology – steam power (for stations launched in the XX century) and gas or reciprocated gas turbine (XXI century). Most often - co-generation. Capacity - usually from 500 kW to 10 MW. The technology - mainly reciprocated gas turbine, less often micro-turbine.

What is distributed generation (DG) in Russia?

Distributed Generation (DG), unlike other types of distributed energy resource, is applied to some extent in Russia. In Russia, power plants with a larger capacity than is common in Europe or the United States are classified as DG.

What is the potential for electricity consumption reduction in Russia?

According to CENEF, the potential for electricity consumption reduction in Russia in 2011 was 379 TWh per year (about 36% of annual consumption). The main drivers of this reduction were energy saving in industry and buildings. Realization of this potential is constrained by the following main barriers:



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a widespread solution as an autonomous source of energy for portable devices and vehicles and have created new individual consumption patterns. in 21st century mobility ...



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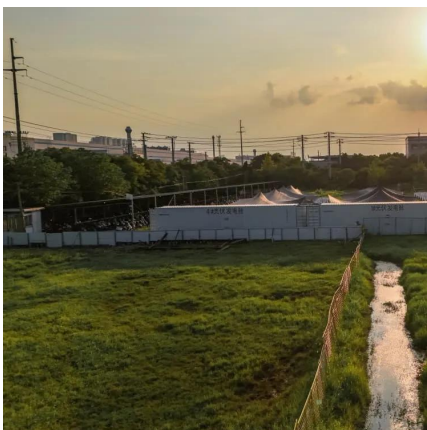
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