

Title (en)

HYBRID POWER PLANT FOR AUTONOMOUSLY SUPPLYING ENERGY TO BUILDINGS AND INDUSTRIAL FACILITIES

Title (de)

HYBRIDKRAFTWERK ZUR AUTARKEN ENERGIEVERSORGUNG VON GEBÄUDEN UND INDUSTRIEANLAGEN

Title (fr)

CENTRALE HYBRIDE POUR ALIMENTER DE MANIÈRE AUTONOME EN ÉNERGIE DES BÂTIMENTS ET DES INSTALLATIONS INDUSTRIELLES

Publication

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Application

EP 21815487 A 20211118

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Abstract (en)

[origin: CA3199514A1] The invention relates to a hybrid power plant for autonomously supplying energy to buildings, in particular residential buildings, and industrial facilities which are arranged in an area that comprises a source of biomass. The hybrid power plant is preferably arranged in the vicinity of buildings and industrial facilities to be supplied in order to provide energy locally. The hybrid power plant comprises at least one system for generating power from renewable energy sources and a power-to-X device for thermochemically converting electricity from renewable energy sources and biomass into other energy carriers which are stored and converted back into electricity on demand. In order to supply energy to the buildings and industrial facilities to be supplied during dark doldrums, the hybrid power plant comprises one or more energy storage devices and at least one system for converting energy back into electricity. The supply of energy to buildings or industrial facilities by means of the hybrid power plant is climate and CO₂ neutral.

IPC 8 full level

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