

Title (en)

METHOD AND DEVICE FOR OPERATING COGENERATION POWER PLANTS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN VON BLOCKHEIZKRAFTWERKEN

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR FAIRE FONCTIONNER DES CENTRALES DE COGÉNÉRATION

Publication

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Application

EP 10768368 A 20100810

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Abstract (en)

[origin: WO2011020463A2] The invention relates to a method and a device for operating cogeneration power plants, by means of which obtaining electricity from the heat of the engine cooling is enabled and the electricity generation can be continued in the event of a lack of heat removal without emergency cooling. In a rotary engine, which drives a generator to generate electricity, the piston chamber (40) is enclosed by a housing (41), in which hot water from a hot-water tank (26) is circulated at high pressure. Steam is produced in the hot-water tank, said steam acting on a steam turbine (29) connected to a second generator. The exhaust steam of the steam turbine condenses in a warm-water tank (50), which contains a heat exchanger (4) for supplying heat to the residential complex. The hot-water tank and the warm-water tank have a water connection and a level controller for replacing the evaporated water. If there is a lack of heat removal, the exhaust steam is discharged to the atmosphere and the electricity generation in both generators can be continued. The invention is especially suitable for small power plants installed in houses in large numbers, said small power plants replacing dangerous and environmentally harmful large power plants.

IPC 8 full level

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