

Title (en)

METHOD OF OPERATING A GAS AND STEAM TURBINE PLANT AND PLANT OPERATING ACCORDING TO THIS METHOD

Title (de)

VERFAHREN ZUM BETREIBEN EINER GAS- UND DAMPFTURBINENANLAGE SOWIE DANACH ARBEITENDE ANLAGE

Title (fr)

PROCEDE PERMETTANT DE FAIRE FONCTIONNER UNE INSTALLATION A TURBINES A GAZ ET A VAPEUR, ET INSTALLATION FONCTIONNANT SELON CE PROCEDE

Publication

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Application

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Priority

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Abstract (en)

[origin: DE4434526C1] The invention concerns a gas and steam turbine plant (1) in which the waste gas (A) from the gas turbine (2) is used to generate steam. In order to be able to select freely a gas turbine model irrespective of its performance and avoiding losses of waste gas both for a new plant and for re-equipping an existing plant, a first partial flow (t1) of the waste gas (A) from the gas turbine (2) is used as air for the combustion of a fossil fuel (B), and a second partial flow (t2) of the waste gas (A) from the gas turbine (2) is used for generating waste heat steam. In order to generate steam, a combination of a fossil-fired steam generator (14) and a waste heat steam generator (15) is connected downstream of the gas turbine (2) on the waste gas side, in each case via a partial flow pipe (18 and 28, respectively). The steam is generated by combustion of the fossil fuel (B) and the waste heat steam is generated in a common water-steam circuit (12) of the steam turbine (10).

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