

ABSTRACT

METHOD FOR STARTING-UP AND OPERATING A COMBINED-CYCLE POWER PLANT

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Method for starting-up a steam turbine (12) of a combined-cycle power plant (1),
the combined-cycle power plant (1) comprising a gas turbine (2) and a steam
power generation system (10) comprising a steam turbine (12), the combined-
cycle power plant (1) activating at least one electric generator (20) connectable
10 to an electric grid (21), wherein the gas turbine (2) comprises a compressor (3) ,
such that, during starting-up of the steam turbine (12), both the gas turbine (2)
and the steam turbine (12) are in operation, the steam turbine (12) adjusting its
load as a function of the load of the gas turbine (2) in such a way that the sum of
the load provided by the gas turbine (2) and of the load provided by the steam
15 turbine (12) is equal to the auxiliary power demand of the plant (1), the load ex-
ported to the grid (21) being equal to zero.

Figure 1