

Title (en)
STEAM TURBINE CYCLE

Title (de)
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Title (fr)
CYCLE DE TURBINE A VAPEUR

Publication
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Application
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Priority
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Abstract (en)
A steam turbine cycle of the present invention comprises a high pressure turbine 1, a reheating turbine 24, a boiler 4, feed heaters 6 for heating a feed water to the boiler 4 by a bleed steam from the turbines 1 and 24, a feed pump 12, and a condenser 10, the steam turbine cycle being a single-stage reheating cycle where a working fluid is water and using a Rankine cycle which is a regenerative cycle. A steam temperature at an outlet of the boiler is 590°C or more. A temperature increase ratio between: a feed-water temperature increase in a first feed heater 7 corresponding to a bleed steam (high-pressure turbine exhaust bleed steam) 22 from an exhaust steam of the high pressure turbine 1; and an average of feed-water temperature increases in second feed heaters 8 where a pressure of the feed water is lower than that of the first feed heater 7; falls within 1.9 - 3.5.

IPC 8 full level
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