

ABSTRACT

THERMAL LOAD PREDICTION METHOD AND APPARATUS, READABLE MEDIUM, AND ELECTRONIC DEVICE

A thermal load prediction method and apparatus. The method comprises: configuring
5 multiple prediction states and corresponding error thresholds, and forming a prediction model
(101); the prediction model predicting first thermal load magnitudes respectively
corresponding to multiple testing time periods in which a target steam user uses boiler steam
(102); determining, according to the first thermal load magnitudes, relative prediction errors
respectively corresponding to the testing time periods (103); forming a state transition
10 probability matrix according to the relative prediction errors, and determining a state
probability of each prediction state in each future time period according to the state transition
probability matrix (104); the prediction model predicting second thermal load magnitudes
respectively corresponding to the future time periods (105); and for each future time period,
determining a thermal load range corresponding thereto according to the corresponding
15 second thermal load magnitude, the state probability corresponding to each prediction state
thereof, and the error thresholds respectively corresponding to the prediction states (106). The
method facilitates subsequent efficient scheduling of boiler steam.

(FIG. 1)

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