

EXHAUST GAS TREATMENT APPARATUS, COMBUSTION FACILITY, POWER
GENERATION FACILITY, AND EXHAUST GAS TREATMENT METHOD

ABSTRACT

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An exhaust gas treatment apparatus includes: a first reduction catalyst, disposed in a flow path of combustion exhaust gas of a fuel, for promoting reduction reaction of a specific substance contained in the combustion exhaust gas; a reductant supply part, disposed upstream of the first reduction catalyst, for supplying a reductant for reducing the specific substance in the combustion exhaust gas; a reductant decreasing catalyst, disposed downstream of the first reduction catalyst in the flow path, for decreasing the reductant in the combustion exhaust gas; at least one second reduction catalyst, disposed downstream of the reductant decreasing catalyst in the flow path, for promoting reduction reaction of the specific substance; a first concentration measuring part for measuring a first concentration which is a concentration of the specific substance in the combustion exhaust gas in the flow path at a position downstream of the first reduction catalyst and upstream of the reductant decreasing catalyst; a second concentration measuring part for measuring a second concentration which is a concentration of the specific substance in the combustion exhaust gas in the flow path at a position downstream of the reductant decreasing catalyst; and a decision part configured to decide whether to increase or decrease a supply amount of the reductant from the reductant supply part, on the basis of the first concentration and the second concentration of the specific substance.

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(Fig. 2)