

Abstract

This gas turbine plant is provided with a gas turbine and a fuel supply facility. The fuel supply facility is provided with: a liquid ammonia line; a warm water line through which warm water can flow; a vaporizer which can perform the heat exchange between the warm water coming from the warm water line and liquid ammonia coming from the liquid ammonia line to heat and vaporize the liquid ammonia; a heat exchanger which can perform the heat exchange between the warm water in the warm water line and a medium; a heat exchange amount controller which can control the amount of heat exchange between the warm water and the medium to control the temperature of the warm water flowing into the vaporizer; and a gaseous ammonia line which can introduce gaseous ammonia that is ammonia vaporized by the vaporizer into the gas turbine.