{CLAIMS}

{Claim 1}

A liquefied gas vaporization device comprising:

a vaporizer configured to heat and gasify a liquefied gas;

an anti-freezing solution circulation path which is connected to the vaporizer and in which an anti-freezing solution circulates;

a boiler configured to combust a boil-off gas generated in a liquefied gas tank to generate steam;

a steam heat exchanger configured to exchange heat between the steam generated by the boiler and the anti-freezing solution circulating in the anti-freezing solution circulation path; and

a controller configured to perform control in a boil-off gas incineration process mode in which the boil-off gas generated in the liquefied gas tank is subjected to an incineration process in the boiler without a liquefied gas being heated in the vaporizer,

wherein, in the boil-off gas incineration process mode, the controller does not supply any liquefied gas to the vaporizer, so as to circulate the anti-freezing solution in the anti-freezing solution circulation path without the liquefied gas being heated in the vaporizer, and the controller delivers the steam generated in the boiler to the

steam heat exchanger.

{Claim 2}

The liquefied gas vaporization device according to claim 1 further comprising a seawater heat exchanger provided in the anti-freezing solution circulation path and configured to exchange heat between an anti-freezing solution and seawater,

wherein the controller performs control so that heat is dissipated from the anti-freezing solution to the seawater in the seawater heat exchanger in the boil-off gas incineration process mode.

{Claim 3}

The liquefied gas vaporization device according to claim 1 or 2 further comprising:

a steam turbine; and

a steam condenser configured to condense steam discharged from the steam turbine,

wherein the controller delivers the steam generated by the boiler to the steam condenser in the boil-off gas incineration process mode.

{Claim 4}

A floating unit comprising:

the liquefied gas vaporization device according to claim 1; and

the liquefied gas tank that stores a liquefied gas,

wherein the vaporizer gasifies a liquefied gas guided

from the liquefied gas tank.