Claims

1. A method for operating a liquefied gas storage tank (1) of a Floating Storage Unit (FSU) or a regas barge having a tank volume (2) for receiving LNG (10) and boil-off gas (BOG) (12), wherein a gaseous BOG stream and a liquid LNG stream are supplied to the tank volume of the Floating Storage Unit (FSU) or the regas barge,

wherein

- the BOG stream is introduced into the LNG stream, and
- subsequently, the resulting BOG-LNG mixture is introduced into the tank volume,

characterized in that

the BOG stream is supplied by BOG from the tank volume and from outside the tank volume from at least one connected reservoir (50) of a Floating Storage Unit (FSU) or an LNG carrier or a regas barge.

2. The method according to claim 1, wherein the LNG for the LNG stream is supplied to the liquefied gas storage tank proceeding from outside the tank volume, from at least one connected reservoir (50) of a Floating Storage Unit (FSU) or an LNG carrier or a regas barge.

3. The method according to claim 1, wherein the LNG for the LNG stream is withdrawn from the tank volume.

4. The method according to claim 1, wherein LNG from the tank volume and from at least one connected reservoir (50) is supplied to the LNG stream.

5. The method according to any of claims 1 to 4, wherein the BOG-LNG mixture is sprayed into gaseous BOG (12) above an LNG filling level (8) of the tank volume.

6. A Floating Storage Unit (FSU) or regas barge with at least one liquefied gas storage tank (1) with a tank volume (2) for receiving LNG (10) and boil-off gas (BOG) (10), said storage tank comprising:

- a BOG conduit for conducting gaseous BOG,
- an LNG conduit for conducting liquid LNG,

wherein the BOG conduit and the LNG conduit open into a common BOG-LNG conduit (24, 224) that is formed to conduct a BOG-LNG mixture and that opens into the tank volume,

characterized in that

the BOG conduit, at its end away from the tank volume, includes a BOG interface (15) to at least one connectable reservoir (50) of a Floating Storage Unit (FSU) or an LNG carrier or a regas barge, and is equipped to supply BOG from the connected reservoir to the tank volume.

7. The liquefied gas storage tank according to claim 6, wherein the LNG conduit, at its end away from the tank volume, includes a LNG interface (17) to at least one connectable reservoir (50) of a Floating Storage Unit (FSU) or an LNG carrier or a regas barge, and is equipped to supply LNG from a connected reservoir to the tank volume.

8. The liquefied gas storage tank according to claims 6 and 7, wherein the common BOG-LNG conduit comprises a spray nozzle (30) for spraying the BOG-LNG mixture.

9. The liquefied gas storage tank according to any one of claims 6 to 8, wherein the LNG conduit includes an interface to a consumer network (36) that is equipped to feed LNG from the tank volume into the consumer network.

10. The liquefied gas storage tank according to any one of claims 6 to 9, wherein the BOG conduit includes an interface to a consumer network (52) that is equipped to feed BOG from the tank volume into the consumer network.

11. A LNG carrier or LNG-operated vehicle or LNG-operated power plant with at least one liquefied gas storage tank (1) according to any of claims 6 to10.