CLAIMS:

1. A floating type LNG station which floats on the sea and refuels a refueling target requiring LNG with the LNG, comprising:

a floating structure;

an LNG tank which is provided in the floating structure so as to store the LNG;

an LNG line for discharging the LNG from the LNG tank to the refueling target;

an LNG pump which is installed at the LNG line so as to provide pumping force for discharge of the LNG; and

a multistage compressor which is installed at the LNG line so as to compress the LNG with any one of low pressure, intermediate pressure, and high pressure to correspond to a compressive refueling condition of the refueling target and supply the compressed LNG.

~~3.~~2. The floating type LNG station of claim 1, further comprising an unloading unit for transferring the LNG so that the LNG discharged from the LNG line is supply to the refueling target and for returning boil-off gas generated during transfer of the LNG.

~~4.~~3. The floating type LNG station of claim 1, further comprising equipment for temporarily storing boil-off gas generated during transfer of the LNG or for using the boil-off gas as fuel to produce electric power.

~~5.~~4. The floating type LNG station of claim 1, wherein the floating structure has at least one of a DP (Dynamic Positioning) device using satellite navigation and a self-mooring device.

~~6.~~5. The floating type LNG station of claim 1 or ~~5~~4, wherein the floating structure has a water treatment device for preventing rocking due to a loading amount of LNG or sea conditions.

~~7.~~6. The floating type LNG station of claim ~~3~~2, wherein the unloading unit further transfers the LNG so that the LNG is filled in the LNG tank through the LNG line.

~~8.~~7. The floating type LNG station of claim ~~7~~6, wherein the LNG line is provided with a first bypass line for bypassing the compressor.

~~9.~~8. The floating type LNG station of claim ~~7~~6 or ~~8~~7, wherein the LNG line is provided with a second bypass line for bypassing the LNG pump and supplying the LNG to the LNG tank.

~~10.~~9. The floating type LNG station of claim ~~3~~2 or ~~7~~6, wherein the unloading unit further includes a boil-off gas line for loading and unloading the boil-off gas.

~~11.~~10. The floating type LNG station of claim ~~10~~9, wherein the unloading unit further includes a boil-off gas processing device which is located in the floating structure and uses the LNG as fuel, and a supply line which branches from the boil-off gas line so as to supply the boil-off gas to the boil-off gas processing device.

~~12.~~11. The floating type LNG station of claim ~~3~~2 or ~~7~~6, wherein the unloading unit has a metering unit for detecting an unloading amount of LNG or a loading and unloading amount of LNG.

~~13.~~12. The floating type LNG station of claim ~~4~~3, wherein the equipment includes:

a separate boil-off gas processing line which is supplied with boil-off gas excessively generated from the LNG tank;

a gas compressor which is coupled to the boil-off gas processing line and compresses the boil-off gas;

a storage container which is connected to a rear end of the gas compressor and temporarily stores the compressed boil-off gas; and

a control valve which is coupled to an extension line connected from a rear end of the storage container to a power production device and adjusts supply flow of the boil-off gas.

~~14.~~13. The floating type LNG station of claim ~~13~~12, wherein the equipment further includes:

a generator for producing the electric power using motive power generated by the power production device; and

a voltage control unit which is coupled between an output end of the generator and an utility.