CLAIMS

What is claimed is:

1. An ambient air liquefied natural gas (LNG) vaporizer, comprising:

a plurality of heat exchange conduits configured to receive LNG and to vaporize the LNG using heat content of ambient air, thereby producing a natural gas stream and refrigerated air;

a housing at least partially enclosing the plurality of heat exchange conduits, wherein the housing further comprises an ambient air intake control device and a refrigerated air outlet;

a blower fluidly coupled to the refrigerated air outlet and configured to move the refrigerated air from the housing to a remote refrigerated air consumer; and

a control circuit that is configured to maintain a temperature of the refrigerated air at the remote refrigerated air consumer by adjusting an operational parameter of at least one of the ambient air intake control device and the blower.

2. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the housing is configured to deliver at least 80% of the refrigerated air to the blower.

3. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the housing is configured to deliver all of the refrigerated air to the blower.

4. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the ambient air intake control device comprises a set of louvers.

5. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the operational parameter of the ambient air intake control device is an opening state of the ambient air intake control device, and wherein the operational parameter of the blower is a fan speed of the blower.

6. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the control circuit is further configured to maintain a temperature of the refrigerated air at a second remote refrigerated air consumer.

7. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the control circuit is further configured to regulate flow of the refrigerated air between the remote refrigerated air consumer and a second remote refrigerated air consumer.

8. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 further comprising a second LNG vaporizer, and a second control circuit configured to allow alternating operation of the LNG vaporizer and the second LNG vaporizer while maintaining flow of refrigerated air to the remote refrigerated air consumer.

9. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 wherein the remote refrigerated air consumer is selected from the group consisting of a gas turbine combustor, an air separation plant, a food freezing plant, an industrial air conditioning unit, and a condenser in a power cycle.

10. The ambient air LNG vaporizer~~LNG regasification plant~~ of claim 1 further comprising a thermally insulated piping between the blower and the remote refrigerated air consumer, wherein the thermally insulated piping has a length of at least 1 km.

11. A method of vaporizing liquefied natural gas (LNG) in an ambient air vaporizer, comprising:

vaporizing LNG in an ambient air vaporizer to produce a natural gas stream and a stream of refrigerated air, wherein the ambient air vaporizer has a housing that at least partially encloses a plurality of heat exchange conduits and further has an ambient air intake control device and a refrigerated air outlet;

using a blower to move at least 50% of the refrigerated air from the housing to a remote refrigerated air consumer; and

using a control circuit to maintain a temperature of the refrigerated air at the remote refrigerated air consumer by adjusting an operational parameter of at least one of the ambient air intake control device and the blower.

12. The method of claim 11 wherein the blower is used to move at least 80% of the refrigerated air to the remote refrigerated air consumer.