CLAIMS

1. An LNG terminal (1) for steep water shorelines, the terminal comprising:
   - an onshore LNG facility (G7),
   - at least one floating storage structure (G1), the at least one floating storage structure (G1) comprising an elongated shape with a first end (2) and a second end (3),
   - a permanent mooring system (G8) for mooring the at least one floating storage structure (G1),
   - a jetty (4), the jetty (4) extending in a longitudinal direction from a shoreline (5) out into a body of water (6) and terminating at a loading jetty portion (7), the loading jetty portion (7) comprising a first mooring arrangement (8) for mooring an LNG carrier (G2) and an external transfer system (G6),
   - the jetty (4) further comprising at least one internal transfer system (G5), the at least one internal transfer system (G5) being arranged at a point along the length of the jetty between the shoreline (5) and the loading jetty portion (7),
   - a pipeline system (9) adapted for transporting hydrocarbons between the onshore LNG facility (G7), the at least one internal transfer system (G5) and the external transfer system (G6),

   wherein the floating storage structure (G1) is connected to the internal transfer system (G5) at the first end (2) of the floating storage structure (G1),

   wherein the internal transfer system (G5) includes flexible pipes and/or articulated connections and is provided for transfer of fluid between the jetty (4) and the floating storage structure (G1), that are subject to relative motion therebetween,

   and where the floating storage structure (G1) is moored such that the second end (3) is oriented in an angle substantially perpendicular to the longitudinal direction of the jetty (4),

   wherein the at least one floating storage structure (G1) comprises a second mooring arrangement (10) for mooring the LNG carrier (G2) to the floating storage structure (G1).

2. The LNG terminal (1) according to any of the preceding claims, wherein the pipeline system (9) comprises a loading system (L1, F1) extending between the onshore LNG facility (G7) and the at least one internal transfer system (G5).

3. The LNG terminal (1) according to any of the preceding claims, wherein the pipeline system (9) comprises an offloading system (L2, F2) extending between the at least one internal transfer system (G5) and the at least one external transfer system (G6).

4. The LNG terminal (1) according to any of the preceding claims, wherein the pipeline system (9) comprises a vapor system (V1, F3) extending between the onshore LNG facility (G7), the at least one internal transfer system (G5) and the external transfer system (G6).

5. The LNG terminal (1) according to any of the preceding claims, wherein the jetty (4) comprises at least two internal transfer systems (G5), the at least two internal transfer systems (G5) being arranged on opposite sides of the jetty (4) in the jetty's longitudinal direction.

6. The LNG terminal (1) according to claim 5, wherein the terminal (1) comprises at least two floating storage structures (G1), wherein each internal transfer system (G5) is connected to a separate floating storage structure (G1).

7. The LNG terminal (1) according to any of the preceding claims, wherein the terminal (1) comprises at least two floating storage structures (G1), wherein at least one first floating storage structure (G1) is connected to an internal transfer system (G5) at a first end (2) of the floating storage structure (G1), and a second floating storage structure (G1) is connected to the second end (3) of the first floating storage structure (G1).

8. The LNG terminal (1) according to claim 6, wherein the at least one second floating storage structure (G1) is moored in a substantially similar longitudinal direction as the first floating storage structure (G1).

9. The LNG terminal (1) according to any of claims 6 or 7, wherein the at least one second floating storage structure (G1) is connected to the pipeline system (10) via the first floating structure (G1).

10. The LNG terminal (1) according to any of the preceding claims, wherein the onshore LNG facility (G7) comprises facilities for boil-off gas collection and management.

11. The LNG terminal (1) according to any of the preceding claims, wherein the onshore LNG facility (G7) comprises facilities for controlling the terminal.

12. The LNG terminal (1) according to any of the preceding claims, wherein the onshore LNG facility (G7) comprises facilities for electric power generation, power storage facility and/or power transmission.

13. The LNG terminal (1) according to any of the preceding claims, wherein the onshore LNG facility (G7) comprises facilities for producing, processing and/or storing utilities, wherein utilities comprise any of: nitrogen, water, cooling water, compressed air, instrument air, heating and drainage collection

14. The LNG terminal (1) according to any of the preceding claims, wherein the jetty (4) comprises means for transferring between the onshore LNG facility (G7) to the at least one floating storage structure (G1), any of: electric power, control signals and utilities.

15. The LNG terminal (1) according to any of the preceding claims, wherein the at least one floating storage structure (G1) comprises a plurality of storage containers (G3).

16. The LNG terminal (1) according to claim 14, wherein the at least one floating storage structure (G1) comprises a cargo management system arranged to load and offload LNG from selected storage containers (G3).

17. The LNG terminal (1) according to any of claim 15, wherein the at least one floating storage structure (G1) comprises an inert gas system arranged to provide inert gas and dry air to selected storage containers (G3).