We Claim:

~~1. A hydrogen harvesting ship, comprising:~~

~~a hydrogen tank;~~

~~a hydrogen transfer hose fluidly connected to the hydrogen tank;~~

~~a hose conveyance vehicle comprising at least one thruster and adapted to reposition a first end of the hydrogen transfer hose;~~

~~wherein the hose conveyance vehicle is adapted to fluidly connect said hydrogen transfer hose to a submerged hydrogen output port of a buoyant hydrogen production platform.~~

~~2. The hydrogen harvesting ship of Claim 1, wherein the hose conveyance vehicle further comprises an electromagnet for attracting to a hull of the buoyant hydrogen production platform.~~

~~3. The hydrogen harvesting ship of Claim 1, wherein the hose conveyance vehicle further comprises powered wheels adapted to ride on a hull of the buoyant hydrogen production platform.~~

~~4. The hydrogen harvesting ship of Claim 1, further comprising a rotating spool adapted to retract a portion of the hydrogen transfer hose.~~

~~5. The hydrogen harvesting ship of Claim 1, wherein the hose conveyance vehicle is operated remotely.~~

~~6. The hydrogen harvesting ship of Claim 1, wherein the hose conveyance vehicle is an unmanned underwater vehicle.~~

~~7. The hydrogen harvesting ship of Claim 1, further comprising a hydrogen tank manifold adapted to transfer hydrogen from the hydrogen transfer hose to a plurality of hydrogen tanks.~~

~~8. An actively self-repositioning chemical fuel conduit comprising:~~

~~a chemical fuel hose;~~

~~a remotely operated vehicle coupled to a first end of the chemical fuel hose, the remotely operated vehicle comprising at least one thruster; and~~

~~an attachment port at the remotely operated vehicle;~~

~~wherein the remotely operated vehicle is configured to pull the chemical fuel hose through water for attachment of the attachment port to a submerged chemical fuel port of a buoyant chemical fuel production platform.~~

~~9. The actively self-positioning chemical fuel conduit of Claim 8, wherein the remotely operated vehicle further comprising an electromagnet configured for attachment to a hull of the buoyant chemical fuel production platform.~~

~~10. The actively self-positioning chemical fuel conduit of Claim 8, further comprising powered wheels adapted to ride on a hull of the buoyant chemical fuel production platform.~~

~~11. The actively self-positioning chemical fuel conduit of Claim 8, wherein the attachment port is adapted to provide a gas-tight connection for receiving hydrogen gas.~~

~~12. The actively self-positioning chemical fuel conduit of Claim 8, wherein the chemical fuel hose is positively buoyant.~~

~~13. The actively self-positioning chemical fuel conduit of Claim 8, wherein the remotely operated vehicle is powered by electricity transmitted over a tether that also carries the chemical fuel hose.~~

~~14~~1. A method for producing and transporting chemical fuel, comprising:

placing into a body of water a floating wave energy conversion vessel having a chemical fuel synthesizer and a chemical fuel export port;

placing into the body of water a chemical fuel harvesting vessel having a chemical fuel storage apparatus, a chemical fuel -receiving -hose, and a chemical -fuel -receiving -hose connection vehicle, wherein the chemical -fuel -receiving -hose connection vehicle is an unmanned vehicle that includes at least one thruster and is adapted to transport a first end of the chemical fuel receiving hose;

synthesizing a chemical fuel onboard the floating wave energy conversion vessel with energy captured from ocean waves;

steering the chemical -fuel -receiving -hose connection vehicle to the chemical fuel export port;

fluidly connecting the chemical fuel receiving hose to the chemical fuel export port using the chemical -fuel -receiving -hose connection vehicle; and

transferring the chemical fuel from the floating wave energy conversion vessel to the chemical fuel storage apparatus through the chemical fuel receiving hose.

~~15~~2. The method of Claim ~~14~~1, wherein the chemical fuel is hydrogen gas.

~~16~~3. The method of Claim ~~14~~1, further comprising transferring water from the chemical fuel harvesting vessel to the floating wave energy conversion vessel.

~~17~~4. The method of Claim ~~16~~3, wherein the water is transferred from the chemical fuel harvesting vessel to the floating wave energy conversion vessel via the chemical fuel ~~-~~receiving ~~-~~ hose.

~~18~~5. The method of Claim ~~14, wherein the receiving station is a seaport.~~

~~19. The method of Claim 14, wherein the receiving station is a floating ocean platform.~~

~~20. The method of Claim 14, wherein the receiving station is a hydrogen-powered ship.~~

~~21. The method of Claim 14~~1, wherein the chemical-fuel-receiving-hose connection vehicle is remotely steered to the chemical fuel export port.

~~22~~6. The method of Claim ~~14~~1, wherein the chemical-fuel-receiving-hose connection vehicle is steered to the chemical fuel export port autonomously by an onboard computer system.

~~23~~7. The method of Claim ~~14~~1, wherein the chemical-fuel-receiving-hose connection vehicle is steered to the chemical fuel export port by electromagnetic control signals received by satellite.

~~24~~8. The method of Claim ~~14~~1, wherein the chemical-fuel-receiving-hose connection vehicle is steered to the chemical fuel export port by electrical control signals transmitted over a tether.

~~25~~9. The method of Claim ~~24~~8, wherein the tether includes the chemical fuel receiving hose.

~~26~~10. The method of Claim ~~14~~1, wherein the chemical fuel synthesizer is an electrolyzer for evolving hydrogen gas.

~~27.~~ 11. The method of Claim ~~14, wherein~~1, further comprising navigating the chemical ~~-~~ fuel~~- receiving -~~ harvesting vessel to a shore-based facility.

12. The method of Claim 11, further comprising offloading the chemical fuel from the chemical fuel harvesting vessel to the shore-based facility.

13. A hydrogen harvesting ship, comprising:

a hydrogen tank;

a hydrogen transfer hose ~~connection~~ adapted to be fluidly connected to the hydrogen tank;

a hose conveyance vehicle comprising at least one thruster and adapted to reposition a first end of the hydrogen transfer hose;

wherein the hose conveyance vehicle is adapted to fluidly connect said hydrogen transfer hose to a submerged hydrogen output port of a buoyant hydrogen production platform.

14. The hydrogen harvesting ship of Claim 13, wherein the hose conveyance vehicle further comprises an electromagnet for attracting to a hull of the buoyant hydrogen production platform.

15. The hydrogen harvesting ship of Claim 13, wherein the hose conveyance vehicle further comprises powered wheels adapted to ride on a hull of the buoyant hydrogen production platform.

16. The hydrogen harvesting ship of Claim 13, further comprising a rotating spool adapted to retract a portion of the hydrogen transfer hose.

17. The hydrogen harvesting ship of Claim 13, wherein the hose conveyance vehicle is operated remotely.

18. The hydrogen harvesting ship of Claim 13, wherein the hose conveyance vehicle is an unmanned underwater vehicle.

19. The hydrogen harvesting ship of Claim 13, further comprising a hydrogen transfer manifold, and wherein the hydrogen transfer hose is adapted to be fluidly connected to the hydrogen tank via the hydrogen transfer manifold.

20. The hydrogen harvesting ship of Claim 13, further comprising a plurality of hydrogen tanks and a hydrogen tank manifold, and wherein the hydrogen tank manifold is adapted to transfer hydrogen from the hydrogen transfer hose to the plurality of hydrogen tanks.

21. The hydrogen harvesting ship of Claim 13, wherein the thruster is selected from the group consisting of a propeller and a water jet.

22. An actively self-repositioning chemical fuel conduit comprising:

a chemical fuel hose;

a remotely operated vehicle coupled to a first end of the chemical fuel hose, the remotely operated vehicle comprising at least one thruster; and

an attachment port at the remotely operated vehicle;

wherein the remotely operated vehicle is configured to pull the chemical fuel hose through water for attachment of the attachment port to a chemical fuel port of a buoyant chemical fuel production platform.

23. The actively self-positioning chemical fuel conduit of Claim 22, wherein the remotely operated vehicle further comprises an electromagnet configured for attachment to a hull of the buoyant chemical fuel production platform.

24. The actively self-positioning chemical fuel conduit of Claim 22, further comprising powered wheels adapted to ride on a hull of the buoyant chemical fuel production platform.

25. The actively self-positioning chemical fuel conduit of Claim 22, wherein the attachment port is adapted to provide a gas-tight connection for transferring hydrogen gas.

26. The actively self-positioning chemical fuel conduit of Claim 22, wherein the chemical fuel hose is positively buoyant.

27. The actively self-positioning chemical fuel conduit of Claim 22, wherein the thruster is selected from the group consisting of a propeller and a water jet.

28. A method for producing and transporting chemical fuel, comprising:

synthesizing a chemical fuel onboard a floating wave energy conversion vessel with energy captured from ocean waves, the floating wave energy conversion vessel comprising a chemical fuel synthesizer and a chemical fuel export port;

navigating a chemical fuel harvesting vessel to the floating wave energy conversion vessel, the chemical fuel harvesting vessel comprising a chemical fuel storage apparatus, a chemical fuel receiving hose, and a chemical fuel receiving hose transport vehicle, wherein the chemical fuel receiving hose transport vehicle is an unmanned vehicle that includes at least one thruster and is adapted to transport a portion of the chemical fuel receiving hose;

steering the chemical fuel receiving hose transport vehicle to the floating wave energy conversion vessel;

connecting the chemical fuel receiving hose to the chemical fuel export port;

transferring a chemical fuel from the floating wave energy conversion vessel to the chemical fuel storage apparatus on the chemical fuel harvesting vessel through the chemical fuel receiving hose;

navigating the chemical fuel harvesting vessel to a shore-based facility;

offloading the chemical fuel from the chemical fuel harvesting vessel to the shore-based facility.

29. The method of Claim 28, wherein the chemical fuel is hydrogen gas.

30. The method of Claim 28, further comprising transferring water from the chemical fuel harvesting vessel to the floating wave energy conversion vessel.

31. The method of Claim 30, wherein the water is transferred from the chemical fuel harvesting vessel to the floating wave energy conversion vessel via the chemical fuel receiving hose.

32. The method of Claim 28, wherein the chemical fuel receiving hose transport vehicle is remotely steered to the chemical fuel export port.

33. The method of Claim 28, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port autonomously by an onboard computer system.

34. The method of Claim 28, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port by electromagnetic control signals received by satellite.

35. The method of Claim 28, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port by electrical control signals transmitted over a tether.

36. The method of Claim 35, wherein the tether includes the chemical fuel receiving hose.

37. The method of Claim 28, wherein the chemical fuel synthesizer is an electrolyzer for evolving hydrogen gas.

38. A method for producing and transporting chemical fuel, comprising:

synthesizing a chemical fuel onboard a floating wind energy conversion platform with energy captured from wind, the floating wind energy conversion platform comprising a chemical fuel synthesizer and a chemical fuel export port;

navigating a chemical fuel harvesting vessel to the floating wind energy conversion platform, the chemical fuel harvesting vessel comprising a chemical fuel storage apparatus, a chemical fuel receiving hose, and a chemical fuel receiving hose transport vehicle, wherein the chemical fuel receiving hose transport vehicle is an unmanned vehicle that includes at least one thruster and is adapted to transport a portion of the chemical fuel receiving hose;

steering the chemical fuel receiving hose transport vehicle to the floating wind energy conversion platform;

connecting the chemical fuel receiving hose to the chemical fuel export port;

transferring a chemical fuel from the floating wind energy conversion platform to the chemical fuel storage apparatus on the chemical fuel harvesting vessel through the chemical fuel receiving hose;

navigating the chemical fuel harvesting vessel to a shore-based facility;

offloading the chemical fuel from the chemical fuel harvesting vessel to the shore-based facility.

39. The method of Claim 38, wherein the chemical fuel is hydrogen gas.

40. The method of Claim 38, further comprising transferring water from the chemical fuel harvesting vessel to the floating wind energy conversion platform.

41 The method of Claim 38, wherein the water is transferred from the chemical fuel harvesting vessel to the floating wind energy conversion platform via the chemical fuel receiving hose.

42. The method of Claim 38, wherein the chemical fuel receiving hose transport vehicle is remotely steered to the chemical fuel export port.

43. The method of Claim 38, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port autonomously by an onboard computer system.

44. The method of Claim 38, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port by electromagnetic control signals received by satellite.

45. The method of Claim 38, wherein the chemical fuel receiving hose transport vehicle is steered to the chemical fuel export port by electrical control signals transmitted over a tether.

46. The method of Claim 45, wherein the tether includes the chemical fuel receiving hose.

47. The method of Claim 38, wherein the chemical fuel synthesizer is an electrolyzer for evolving hydrogen gas.