What is claimed is:

1. A hydrogen distribution system for transporting hydrogen from a hydrogen supply source to at least one end-user location comprising:

an existing pipeline;

a hydrogen delivery line configured to carry pressurized hydrogen, said hydrogen delivery line located inside the existing pipeline such that a sweeper gas within the existing pipeline flows around an exterior of the hydrogen delivery line and purges any hydrogen that leaks from said hydrogen delivery line;

at least one inlet into the hydrogen delivery line configured to allow hydrogen to be injected into the hydrogen delivery line;

at least one outlet from the hydrogen delivery line configured to allow hydrogen to be withdrawn from the hydrogen delivery line; and

a safety pipe located inside of the existing pipeline and around the hydrogen delivery line such that a channel is formed between the exterior of the hydrogen delivery line and an interior of said safety pipe, the channel sized to allow the sweeper gas to flow through the existing pipeline and along the exterior of the hydrogen delivery line.

2. The hydrogen distribution system of Claim 1, wherein the existing pipeline is a gas transmission pipeline and the sweeper gas is one of the following: natural gas; or synthetic natural gas.

3. The hydrogen distribution system of Claim 1, wherein the safety pipe is one of the following materials: a plastic; or a composite.

4. The hydrogen distribution system of Claim 1, wherein the existing pipeline is one of the following: a water pipeline; a sewer pipeline; or a storm drain pipeline.

5. The hydrogen distribution system of Claim 1, wherein:

the existing pipeline includes a gas transmission line coupled with at least one of the following: a water pipe; a sewer pipe; or a storm drain;

the at least one inlet into the hydrogen delivery line occurs in a gas transmission pipeline; and

the hydrogen withdrawn from the hydrogen delivery line occurs after the hydrogen has been transmitted through a water pipe, sewer pipe or storm drain.

6. The hydrogen distribution system of Claim 1 or 2, further comprising:

at least two in-line hydrogen sensors located at different locations within the existing pipeline;

a data system configured to monitor the at least two in-line hydrogen sensors to determine a level of hydrogen for each in-line hydrogen sensor;

a recording system configured to separately record the hydrogen levels detected by each in-line hydrogen sensor; and

a programmable alerting system configured to trigger an alert based on the hydrogen levels.

7. The hydrogen distribution system of Claim 4, further comprising:

at least one hydrogen sensor located at an exit of the safety pipe, the at least one hydrogen sensor configured to monitor for the presence and amount of hydrogen that has leaked from the hydrogen delivery line into the safety pipe.

8. The hydrogen distribution system of Claim 4, further comprising:

at least two in-line hydrogen sensors located at different locations within

the safety pipe;

a data system configured to monitor the at least two in-line hydrogen sensors to determine a level of hydrogen for each in-line hydrogen sensor;

a recording system configured to separately record said hydrogen levels detected by each in-line hydrogen sensor; and

a programmable alerting system configured to trigger an alert based on the hydrogen levels.

9. The hydrogen distribution system of Claim 6, further comprising:

at least one shutoff valve configured to selectively isolate and close off sections of the hydrogen delivery line upon being triggered by the alert of the programmable alerting system.

10. The hydrogen distribution system of Claim 8, further comprising:

at least one shutoff valve configured to selectively isolate and close off sections of the hydrogen delivery line upon being triggered by the alert of the programmable alerting system.

11. The hydrogen distribution system of Claim 10, further comprising:

at least one shutoff valve, each shutoff valve connected to a coupling, shutoff valves being located at each interval of a pre-determined length of the hydrogen delivery line, each shutoff valve and coupling configured to selectively close; and

a processor configured to identify a location of a hydrogen leak based on the hydrogen levels detected by each of the at least one hydrogen sensors,

wherein each shutoff valve and coupling is configured to close to isolate the hydrogen delivery line around the pre-determined length of the hydrogen delivery line in which the hydrogen leak is identified.

12. A method of transporting hydrogen from a producing location to at least one end user location comprising:

producing hydrogen from an energy source at the producing location;

storing said hydrogen in at least one hydrogen storage container;

locating a hydrogen delivery line inside an existing pipeline, the hydrogen delivery line configured to carry pressurized hydrogen;

injecting a sweeper gas around the exterior of the hydrogen delivery line to purge any hydrogen leaking from said hydrogen delivery line;

injecting hydrogen into the hydrogen delivery line from the at least one hydrogen storage containers; and

withdrawing said hydrogen from the hydrogen delivery line at the at least one end user locations;

wherein:

the energy source is fixed at the producing location;

the method of transporting hydrogen further includes transporting the hydrogen using a lighter-than-air airship; and

wherein transporting the hydrogen using a lighter-than-air airship comprises:

pumping the hydrogen into at least two vessels;

after pumping the hydrogen into the at least two vessels, loading said vessels onto the lighter-than-air airship;

flying the lighter-than-air airship to a terminus location;

unloading the vessels from said lighter-than-air airship at the terminus location;

loading at least one empty vessel onto the lighter-than-air airship; and

returning the at least one empty vessels to the producing location.

13. The method of Claim 12, wherein the terminus location includes a cradle comprising at least two anchor points configured to secure the lighter-than-air airship with tie-down cables.

14. The method of Claim 13, wherein the cradle is configured to rotate to point in a direction of oncoming wind.

15. A method of transporting hydrogen from a producing location to at least one end user location comprising:

producing hydrogen from an energy source at the producing location;

storing said hydrogen in at least one hydrogen storage container;

locating a hydrogen delivery line inside an existing pipeline, the hydrogen delivery line configured to carry pressurized hydrogen;

injecting a sweeper gas around the exterior of the hydrogen delivery line to purge any hydrogen leaking from said hydrogen delivery line;

injecting hydrogen into the hydrogen delivery line from the at least one hydrogen storage containers; and

withdrawing said hydrogen from the hydrogen delivery line at the at least one end user locations;

wherein:

the existing pipeline includes a gas transmission line coupled with at least one of the following: a water pipe; sewer pipe; or storm drain;

injecting the hydrogen into at least one inlet into the hydrogen delivery line occurs in a gas transmission pipeline; and

withdrawing the hydrogen from the hydrogen delivery line occurs after the hydrogen has been transmitted through a water pipe, a sewer pipe or a storm drain.

16. The method of Claim 15, further comprising:

utilizing the hydrogen in an industrial process feedstock;

wherein the at least one end user location is a commercial or industrial facility.