CLAIMS:

1. A hydroprocessing process comprising:

providing a hydrocarbon feed stream comprising a biorenewable feedstock;

hydroprocessing said hydrocarbon feed stream in a hydroprocessing reactor in the presence of a hydrogen stream to provide a hydroprocessed stream;

~~separating said hydroprocessed stream to provide a gaseous stream comprising hydrogen and carbon monoxide and a liquid hydroprocessed stream~~ stripping light gases from said hydroprocessed stream to provide a stripping overhead gaseous stream and a stripped liquid hydroprocessed stream;

separating said stripping overhead gaseous stream to provide a net stripping overhead gaseous stream and a net hydroprocessed overhead liquid stream, wherein methane from the process is removed in said net stripping overhead gaseous stream;

separating said net hydroprocessed overhead liquid stream to provide a liquid hydroprocessed stream and a gaseous stream comprising hydrogen and carbon monoxide;;

methanating said gaseous stream over a methanating catalyst to hydrogenate carbon monoxide to water and methane to provide a methanated gaseous stream; and

providing said hydrogen stream from said methanated gaseous stream.

2. The process of claim 1 further comprising scrubbing acid gases from said gaseous stream.

3. The process of claim 1 further comprising compressing said gaseous stream.

4. The process of claim 1 where said hydrocarbon feed stream comprises at least 5 wt% biorenewable feedstock.

5. The process of claim 1 wherein said separation step includes stripping light gases from said hydroprocessed stream to provide a stripping overhead gaseous stream and a stripped liquid hydroprocessed stream.

6. The process of claim 5 further comprising removing methane from the process in said stripping overhead gaseous stream.

7. The process of claim 5 further comprising hydroisomerizing said stripped liquid hydroprocessed stream to provide a hydroisomerized stream.

8. The process of claim 7 further comprising separating said hydroisomerized stream and stripping gases from a liquid hydroisomerized stream.

9. The process of claim 1 further comprising recycling said methanated gaseous stream to a hydroisomerization reactor and hydroisomerizing said liquid hydroprocessed stream in said hydroisomerization reactor.

10. A hydroprocessing apparatus comprising:

a hydroprocessing reactor;

a ~~separator~~ hydroprocessing stripping column in downstream communication with said hydroprocessing reactor;

a hydroprocessed stripping overhead line extending from an overhead of said hydroprocessing stripping column;

a hydroprocessing receiver in downstream communication with said hydroprocessed stripping overhead line;

a hydroprocessed overhead liquid ~~an overhead~~ line extending from ~~an overhead~~the bottom of said hydroprocessing receiver~~separator~~;

a cold separator in downstream communication with said hydroprocessed overhead liquid line;

a cold overhead line extending from overhead of said cold separator;

a methanator reactor in downstream communication with said cold overhead line; and

said hydroprocessing reactor being in downstream communication with said methanator reactor.