

## Process enabling technology

Industry leading licensors were selected to create an integrated technology solution consisting of five process steps (including Velocys' own technology), each of which has been demonstrated at commercial scale.

The careful selection and combination of the technologies provides a de-risked solution enabling the processing of different solid feedstocks (including both woody biomass and municipal solid waste), and sufficient flexibility to allow production of multiple products including Synthetic Paraffinic Kerosene (SPK) and diesel. A capture-ready carbon dioxide stream is also produced, enabling negative-emissions fuels wherever CO2 usage or storage options are available, as is the case for the Bayou Fuels project.

Step	Process	Licensor
1	Gasification	TRI (ThermoChem Recovery International)
2	Syngas partial oxidation and cooling	Arvos Schmidtsche-Schack (SCS) with Linde's Hot Oxygen Burner Technology
3	Syngas clean-up & conditioning	Air Liquide Engineering & Construction
4	Fisher Tropsch (FT) hydrocarbon synthesis	Velocys
5	Product upgrading	Haldor Topsoe

### Process overview

