Techno-economic analysis for Power-to-Liquid and Biomass-to-Liquid fuels

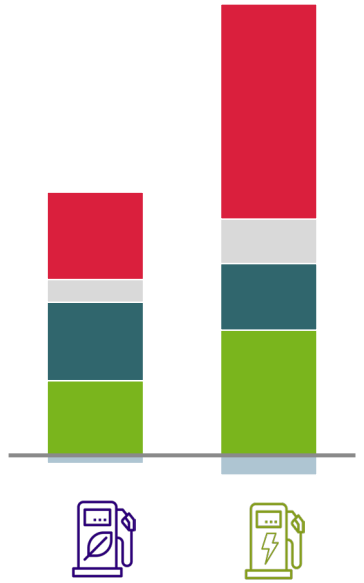
CLIENT: US COLLABORATIVE RESEARCH ORGANIZATION

BACKGROUND: The client wants to assess fuel production viability of fuels from renewables with respect to CO_2 benefits and production economics

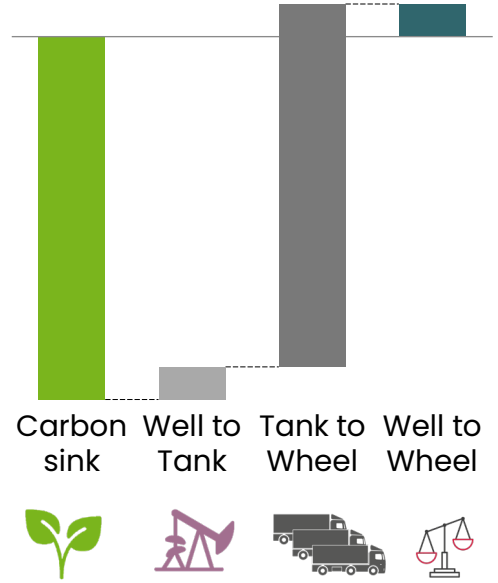
Deliverables

- Market overview of **Power-to-Liquid** and **Biomass-to-Liquid** fuels
  - Global production overview with current and planned capacities
  - High level research evaluation of various production pathways
- Fuel production assessment for 10 selected pathways
  - Model-based economic assessment of production costs and investment costs
  - Sensitivity analysis to derive key cost drivers within the processes
  - Well to Wheel analysis to evaluate potential CO_2 benefits
- Technology readiness of the 10 selected pathways; required steps towards mass production
- Global market attractiveness of fuels from renewables

PRODUCTION COST ANALYSIS



WELL TO WHEEL ANALYSIS



- Feedstock
- Maintenance and repairs
- Miscellaneous
- Investment costs
- Byproducts income

10 PRODUCTION PATHWAYS

> 25 SCENARIOS