Talk Outline

- Background Information
- NeSSI Uses in Development
- NeSSI Future Thoughts
  - Expanding the Envelope
- Discussion
Light transportation fuels are the highest value products and account for approximately 90% of the US crude oil consumption.
Attainable Yield Roadmap

Crude Oil Composition Map
TBP Curves

Deep-cut Vacuum Residue

Deep-cut Vacuum Gas Oil

Middle Distillates

Naphtha

Cumulative Yield from Crude, Wt%
GC Applicable to Most Refinery Streams

Stream Color Key
- LPG
- Gasoline
- Distillate
- VGO
- Resid

Crude Unit (Atmos)
Crude Unit (Vac)
Coker
Transition To NeSSI SCSs

Same Space and Function

Less Space with More Function
Portable GCs with NeSSI Sample Introduction
Upstream Production Sites

Older Platform

FPSO - Floating Production-Storage-Offloading Facility
Production Platform Labs

Older Platform Lab

FPSO Lab
NeSSI Systems Bridge with the Lab
Simplified Gas Blender for GC-Sulfur Calibration

3 Stream Blender packaged for travel.

5 Stream Blender in Lab.
Gas Blender Ready To Travel
NeSSI Future Considerations

- Gen I
- Gen II
- Gen III

- Research
- Development and Design
- Deployment
NeSSI Future Considerations - 2
Bringing Understanding to rhe Masses
Questions?