A Cleaner Alternative to Diesel

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Oberon Fuels Overview

• Company Background
  – San Diego-based company
  – 1st to produce fuel-grade DME in North America

• Technology
  – Developed small-scale process that cost effectively converts methane and carbon dioxide to DME
  – Pilot plant online in southern California (Imperial Valley Region)

Pilot Plant
June 6, 2013
(Imperial Valley)
Oberon Process Advantage

• Financing
  – Capital expenditure in sync with market growth

• Feedstocks
  – Large supply of domestic natural gas
  – Renewable & wasted feedstocks (stranded gas, food waste, landfill gas, wastewater treatment)
  – *Feedstock flexibility = price stability*

• Proprietary Process Design

• Footprint

• Methanol Production
DME Infrastructure: Hub & Spoke Model

DME Centrally Produced

DME Delivered to Customers

On-site Fueling at Customer Terminal

10,000 gallons per day
Fuels 100-150 trucks per day
Phase 1: Methanol-to-DME Plant

April 15, 2013
Chicago, IL

May 17, 2013
Brawley, CA
• Process consumes CO$_2$ (up to 50%)
• Can be mixed with pipeline natural gas
Biogas Output

Cow Manure  25 m³ per ton
Pig Manure  30
Potato Waste  29
Chicken Manure  80
Brewery Waste  120
Green Clippings  175
Grass Silage  185
Corn Silage  190
Food Scraps  265
Bakery Waste  714
Fats & Grease  961

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