Whitegate Oil Refinery
Irving Oil Retail Network

- 900+ Retail locations
- Service Atlantic Canada, New England, and Quebec
- Began marketing our products in Canada in 1925 and in the US in 1972
- 19 Big Stop Locations in Canada and US
Irving Oil Retail – Canada / U.S.
Whitegate Oil Refinery

- Only oil refinery in Ireland
- Supplies 40% of Ireland's transport fuels
- Wholesale only in Ireland
- Modernised – over $300million invested.
Transport Fuel Targets

- By 2020 have 10% of transport fuels from renewables, such as biofuels.
  - RES (T)

- By 2020, reduce the GHG intensity of transport fuels by 6% (vs 2010)
  - Fuels Quality Directive
Whitegate Gasoline Production

Crude Oil → Conventional gasoline → +5% Ethanol → Car
Whitegate Diesel Production

Manufacturers will not guarantee their engines above 7% FAME

Waste Fat/Oil (FAME)

+7% FAME

Conventional Diesel

Crude Oil

Irving Oil – Confidential
Whitegate Renewable Diesel

Waste Fat/Oil

Crude Oil

Waste Fat/Oil (FAME)

+7% FAME

Diesel

Also called HVO, Hydrotreated “Vegetable” Oil
Relative GHG Intensity

- **Diesel**: 90-100g CO₂/km
- **20% Renewable**: 75-85g CO₂/km
- **Petrol Hybrid**: 70g CO₂/km
- **EVs, Grid Average 2020**: 55g CO₂/km
Summary

• Indigenous waste could be used for renewable diesel production
  • Reduces GHG emissions
  • Eliminates a waste problem
  • Improves our energy security

• Whitegate Oil Refinery can help meet transport GHG targets
  • And can offset other national GHG gaps
  • Avoid EU GHG/renewables penalties