

LLOYDMINSTER ETHANOL PLANT

Husky Energy

Lloydminster, Saskatchewan



Project Description

In 2004, Husky Oil, Calgary, retained KGS Group to provide the detailed design and equipment procurement for a 130 million litre per year ethanol plant at their heavy oil upgrader facility in Lloydminster, Saskatchewan. KGS had previously completed a project definition study, a +/-10% cost estimate and a preliminary design for the project in 2003. In addition to the 130 million litres of ethanol, the plant will also produce 135,000 tonnes per year of Distillers Dried Grains with Solubles (DDGS) as an animal feed co-product. The upgrader property also includes the Meridian Cogeneration Plant (jointly owned and operated by Husky Energy and Transalta) and the ethanol plant will be constructed immediately west of the Co-Gen plant in order to utilize waste heat from the Co-Gen plant to minimize operating costs for the ethanol plant process. The plant design includes:

- Grain Receiving and Storage (350,000 tonnes of wheat per year)
- Milling, Mashing, Cooking, and Liquefaction
- Fermentation and Clean-in-Place system
- Distillation and Dehydration
- Centrifugation and Drying
- Evaporation
- Fuel Grade Product Blending
- DDGS Storage and Loadout

KGS Group completed the detailed design for the \$130 million project in 2005. Construction will be completed in second quarter 2006.

KGS
GROUP