

# LLOYDMINSTER ETHANOL PLANT

Husky Energy

Lloydminster, Saskatchewan



## Project Description

KGS Group provided the detailed design and equipment procurement for a 130 million litre per year ethanol plant for Husky Energy at their heavy oil upgrader facility in Lloydminster, Saskatchewan. 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 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 (designed to utilize waste heat from the adjacent existing Co-Gen plant)
- Evaporation
- Fuel Grade Product Blending
- DDGS Storage and Loadout

The project was executed as a design-build project with KGS as the engineering and procurement subcontractor to Graham Industrial Services Ltd. (Saskatoon, Sask.). The \$180 million project was completed and the plant started up in 2006.