

Value Creation Inc. Value Chain Solutions - Heartland

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General Information

- **Project Status:** Regulatory
- **Project Type:** Merchant Crude Customization and Clean Oil Refinery
- **Industrial Area:** Alberta's Industrial Heartland
- **Location:** Strathcona County
- **Ownership:** Value Creation Inc.
- **Land Holdings (acres):** 1330
- **Approx. employees and full time contractors (excluding construction workforce):** TBD

Company Profile

Value Creation Inc. (VCI) is a private Alberta company established in 1999. With the mission: Clean Oil La-Fit ("COLF): "Transformation of Extra-Heavy-Hydrocarbons (inclusive of bitumens, extra-heavy-oils, residues, etc.) to Clean Oils/Crudes (best) Fitting majority of refineries globally (with their current processing facilities), at Lowest Costs, Sustainably."

VCI is proposing to build and operate a new refinery, named Clean Oil Refinery – Heartland ("CORE-H"), to be located at NE ¼ Sec. 3- 56-21-W4M in the Alberta's Industrial Heartland, Northeast of Edmonton in Strathcona County. It will be immediately adjacent to VCI's approved 260 KBPD Merchant Crude Customization Complex at Heartland ("MCC-H", formerly "Heartland Upgrader Project."), and represents VCI's commitment to continuing its full value chain development in the Alberta Industrial Heartland at the Value Chain Solutions –Heartland.

CORE-H has a uniquely simple process configuration (with 2 Hydroprocesses, besides standard auxiliary facilities), processing custom-designed crudes from VCI's Athabasca Regional Complex and MCC-H. CORE-H would produce Premium Fuel Products, and Premium Medium Crudes that would fit most refineries in North America and globally, significantly broadening markets and debottlenecking logistics.

MCC-H will utilize VCI's proprietary technology which includes Accelerated De-Contamination ("ADCTM") and Clean Oil Cracker ("COCTM"). ADCTM transforms bitumen into Clean (Modestly) Heavy Oil by very selective and almost complete removal of carbonaceous asphaltenes (as solid aggregates in water slurry). This allows for solid carbon sequestration and reduction in Greenhouse Gases. COCTM is a low cost cracking process that can achieve very high conversion of the Clean Resinous Heavy Hydrocarbons produced by ADCTM process. Product from COCTM will be the feedstock for CORE-H.

Products

- Ultra-low Sulfur Diesel and Naphtha, diluents, Liquid Petroleum Gas, Sulphur and Premium Medium Crude Oils

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