COAL TO CLEAN ENERGY

Alan Cruickshank
President, NuCoal Energy Corp.
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Vision

• To produce clean energy (fuels, chemicals) from coal in Saskatchewan

Mission

• To monetize three blocks of coal resources in Saskatchewan
Over 150 years of coal mining experience
Currently 3 open pit coal mines
Saskatchewan produces approximately 10 M tonnes per year
  90% domestic power production
  10% exported
NUCOAL’S THREE BLOCKS OF COAL

I. Wood Mountain Project (Primary Discussion)
   ▪ Over 5 BN tonnes lignite
   ▪ Coal to Liquids

II. MainLine Project
   ▪ 67 meters coal (3 seams)
   ▪ Gasification

III. Northern Properties
   ▪ JV opportunities
   ▪ Early stage exploration
WOOD MOUNTAIN PROJECT

- 1.8 million hectares
- Lignite coal
- 5 billion tonnes = equivalent to 10 billion bbls of oil

Coal to Clean Energy
**CTL PROJECT OVERVIEW**

**CTL PLANT**
- Modular
  - avoiding monolithic plant completion risk
  - 15,000 BBL/day/line
- Feedstock – lignite
- Near zero emissions
- Developing relationships for full term project financing

**EXISTING INFRASTRUCTURE**
- Rail
- Pipeline
- Power
- Highways
- USA border
## CTL PRODUCTION QUANTITIES

<table>
<thead>
<tr>
<th>Products/Feedstock</th>
<th>Daily Quantities Produced/Consumed</th>
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<tbody>
<tr>
<td></td>
<td>First Phase Plants</td>
</tr>
<tr>
<td></td>
<td>United States &amp; Saskatchewan</td>
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<td></td>
<td>Saskatchewan supports</td>
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<td>Second Phase Expansion</td>
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<tr>
<td>Gasoline (barrels/day)</td>
<td>135,000</td>
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<tr>
<td>Carbon Dioxide (tonnes/day)</td>
<td>33,000</td>
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<tr>
<td>Sulphuric Acid (tonnes/day)</td>
<td>750</td>
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<td>Aggregate (tonnes/day)</td>
<td>10,960</td>
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<tr>
<td>Lignite Requirement</td>
<td>55,636 (20.3 million tonnes/year)</td>
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<td>123,623 (45.1 million tonnes/year)</td>
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**TARGETED PROJECT PARTICIPANTS**

- **TransCanada**
  - NuCoal’s proposed CTL Plant Operator after economic completion
  - NDA signed, MOU in development

- **Sherritt**
  - NuCoal’s proposed Contract Coal Miner
  - MOU signed

- **Black & Veatch**
  - NuCoal’s proposed independent engineer for Project Development

- **SNC-Lavalin**
  - NuCoal’s proposed Owners Representative Engineer
Multi-billion tonne coal resource

Advancing clean coal technologies

Advancing strategic relationships

Welcome new stakeholders who can expand our partnerships and our investor base
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