Project Background

With countries scrambling to meet their renewable energy targets, cleaner-burning natural gas has emerged as an attractive bridge fuel. This puts British Columbia in a strategic position to monetize its vast gas reserves while helping Asian nations transition to a future of cleaner energy.

Main Processing Units

1. Acid Gas Removal Unit
2. Dehydration Unit
3. NGL Recovery
4. Liquefaction Unit
5. Nitrogen Rejection

Environmental Considerations

- **Land Impact**: Monitoring habitats and conduct soil acidification testing to assess potential eutrophication.
- **Atmospheric Impact Pollution**: Regulations set by the Oil and Gas Activities Act, the Environmental Protection and Management Regulation.
- **Wildlife Impact**: Ensure TSS levels ≤ 25mg/L, Treated water affluent cooled to KPC, Capture/bioswales crabs and fish to suitable habitats.
- **Water Pollution**: Treat water in accordance with Kitimat municipal codes. Demand for fresh water to be met by Kitimat water line.

Economic Analysis

- **Direct Product Cost**: $1B
- **Direct Product Cost**: $4.69B
- **Overhead Cost**: $150mil
- **General Expenses**: $550mil
- **Shares**: 64%
- **Loan with annual interest 3%**: Include depreciation and interest

Summary of Financial Analysis

- **Net Profit Margin**: 18.64%
- **Current Ratio**: 1.77
- **Cost of Debt**: 1.6%
- **Acid Test Ratio**: 1.27
- **Cost of Return**: 10%
- **Weighted Cost of Capital (WACC)**: 8.66%
- **Return of Equity**: 11.16%
- **Payback Period**: 8 years
- **Plant Life**: 20 years

Acknowledgements

We would like to thank Dr. Jim Lim, Ms. Ainul Badri, P.Eng. Sergio Barotta, Dr. Jonathan Verret, Dr. Dusko Poxaran, and Mr. Lee Rippon for the generous support, guidance and resources.