Southeast Alaska Bioenergy Project

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Original Problem and Directive

- Large Forest Harvests and Residues
- Continuing Growth in unused residues
- Desire to convert residues to useful product

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Original Path to a Project
-NREL and related technologies
-Ketchikan Pulp Mill Site
-Size Project for 6 million gallons per year Ethanol

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Technologies Considered
- Cellulose conversions
- Other wood material conversions
- Gasification and related processing

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Situation Changes

- Tongass Forest harvest limitations
- KPC operations
- Veneer mill operations
- Feed character changes

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New Technologies

- Organisms for C5 conversions
- Gasification related alternatives
- Organisms and catalysts for syngas conversions

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New Project Considerations

- Product yields determine economic project size
- Organism processing has limitations
- Steam Reforming gives quality syngas
- Catalysts provide high value products

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Pilot Scale Testing
- Steam Reforming
- Catalytic Conversion
- SE Alaska Residue Samples

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Current Testing
- 85 hour test run
- Restart Sept 18
- Basis for Design

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New Project Expectations

- Higher Product yields require less feed materials
- Extra product values for other fuels/electricity
- Other feed materials are acceptable

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Needed for Project Success
- Location suitable for 250-350 DTPD
- Wood residues, Municipal Solid Wastes, etc.

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