











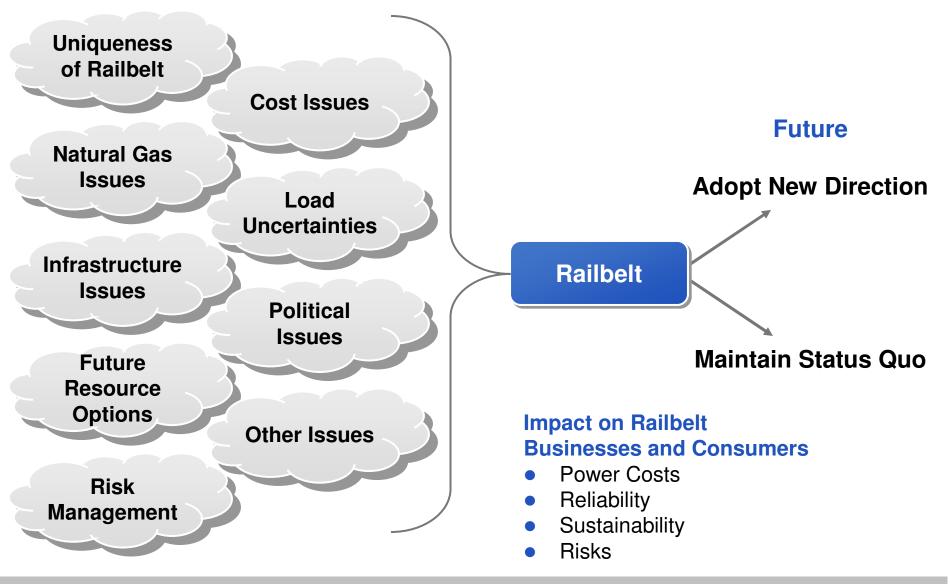
Alaska Railbelt Electrical Grid Authority (REGA) Study

Results and Recommendations

March 26, 2009



Summary of Railbelt Issues





Project Overview – Objectives

- Identify and assess a list of business structure options for the future Railbelt generation and transmission system
- For each option, further analyze alternative structures to manage and dispatch electric power throughout the Railbelt region
- Provide a final work product for stakeholders and decision-makers to consider in planning how to meet the Railbelt region's energy needs over the next 30 years

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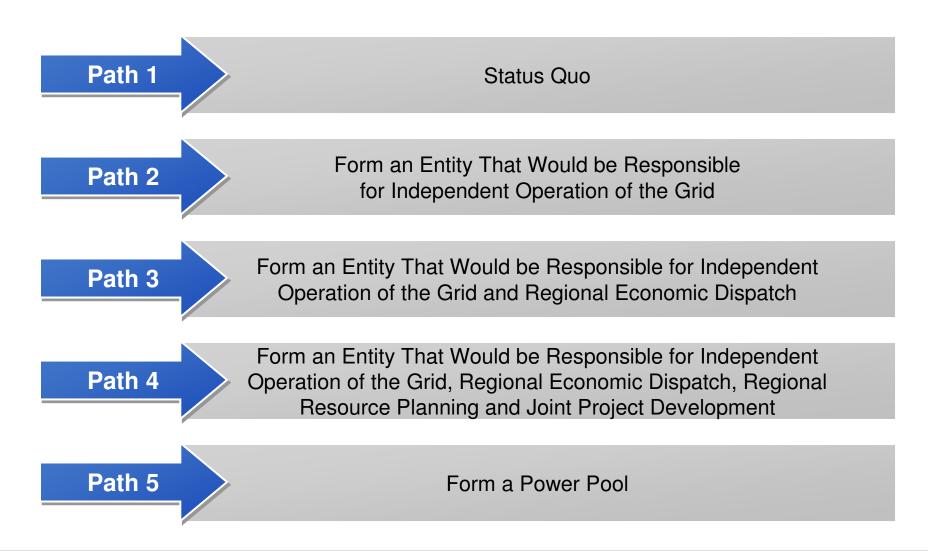


Project Overview - Definitions

- Coordinated Grid Operations relates to the coordinated operations of the transmission grid to ensure the reliability of electric service throughout the region.
- **Economic Dispatch** involves the operation of generation facilities to produce energy at the lowest cost to reliably serve consumers, recognizing any operational limits of generation and transmission facilities.
- Regional Integrated Resource Planning a planning process for electric
 utilities that evaluates many different generation and transmission supply-side
 and demand-side options for meeting future electricity demands and selects the
 optimal mix of resources that minimizes the cost of electricity supply while
 meeting reliability needs and other objectives.
- Joint Project Development involves the development of future generation and transmission projects by multiple parties for the joint benefit of all participants.



Summary of Organizational Paths



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Summary of Evaluation Scenarios

Scenario A

Large Hydro / Renewables / DSM / Energy Efficiency Scenario

Scenario B Natural Gas Scenario

Scenario C Coal Scenario

Scenario D

Mixed Resource Portfolio Scenario



Stakeholder Involvement Process

Technical Conference

Utility Stakeholders

- Individual and Joint Meetings
- Data Gathering

Non-Utility Stakeholders

- Input Survey Instrument
- Face-to-Face Meetings
- Reference Documents

Advisory Group Meetings

Presentation of Preliminary Results, Conclusions and Recommendations to All Stakeholders **Draft Report** Final Report Public Presentations on Final Results, Conclusions and Recommendations

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Results – Average Net Savings (\$'000)

		Path 3	Path 4		Relative Path 4 Results		
Scenario	Path 2 Independent Operation	Independent Operation / Economic Dispatch	Independent Operation / Economic Dispatch / Resource Planning / Project Development	Path 5 Power Pool	% Savings	Impact on Typical Monthly Residential Bill	
Tax-Exempt Debt							
A – Hydro / Renewables / DSM	1 (\$1,272)	\$8,229	\$42,683	\$46,097	10.9%	\$11.50	
B – Natural Gas	(\$1,272)	\$7,199	\$12,795	\$16,209	4.1%	\$4.30	
C – Coal	(\$1,272)	\$10,645	\$37,177	\$40,591	10.8%	\$11.30	
D – Mixed	(\$1,272)	\$8,804	\$34,195	\$37,608	9.4%	\$9.90	
Taxable Debt							
A – Hydro / Renewables / DSM			\$28,166		7.9%	\$8.30	
B – Natural Gas			\$10,452		3.6%	\$3.70	
C – Coal			\$30,872		10.1%	\$10.60	
D – Mixed			\$25,114		7.5%	\$7.90	

Path 5 considered as transition approach and not feasible for long-term solution.

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GVEA

MEA

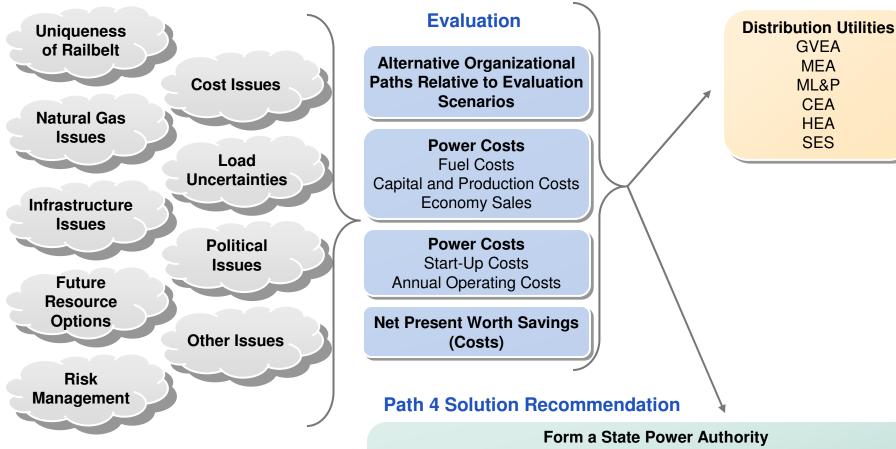
ML&P

CEA

HEA

SES

Recommended Organizational Structure



Status Quo

With the Following Functional Responsibilities

- Independent, Coordinated Operation of the Railbelt Transmission System
- Economic Dispatching of the Region's Generation Facilities
- Regional Resource and Transmission Expansion Planning
- Joint Development of New Generation and Transmission Facilities



Region's Need to Finance the Future

Scenario	Required Capital Investment Over Next 30 Years – Path 4 (\$000'000)
A – Hydro/Renewables /DSM	\$8,070
B – Natural Gas	\$2,475
C – Coal	\$3,769
D – Mixed	\$5,840

Combined Railbelt Utility Financial Information – 2007 (\$000,000)

 Total Net Electric Plant 	\$1,475
Total Revenues	\$729
 Total Long-Term Obligations 	\$1,081

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Implementation Steps

- Make Decision Whether to Form Regional Entity and Finalize Functional Responsibilities
- Finalize Legal Form for Regional Entity
- Establish Transition Management Team to Oversee Implementation (Including State Representative)
- Adopt Required Legislative/Regulatory Actions
- Complete Formation of New Entity
- Develop Initial Regional Integrated Resource Plan and Transmission Expansion Plan

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