"In-state Use of North Slope Natural Gas, Political & Economic Realities"

Presentation to Resource Development Council for Alaska, Inc.

November 16, 2000

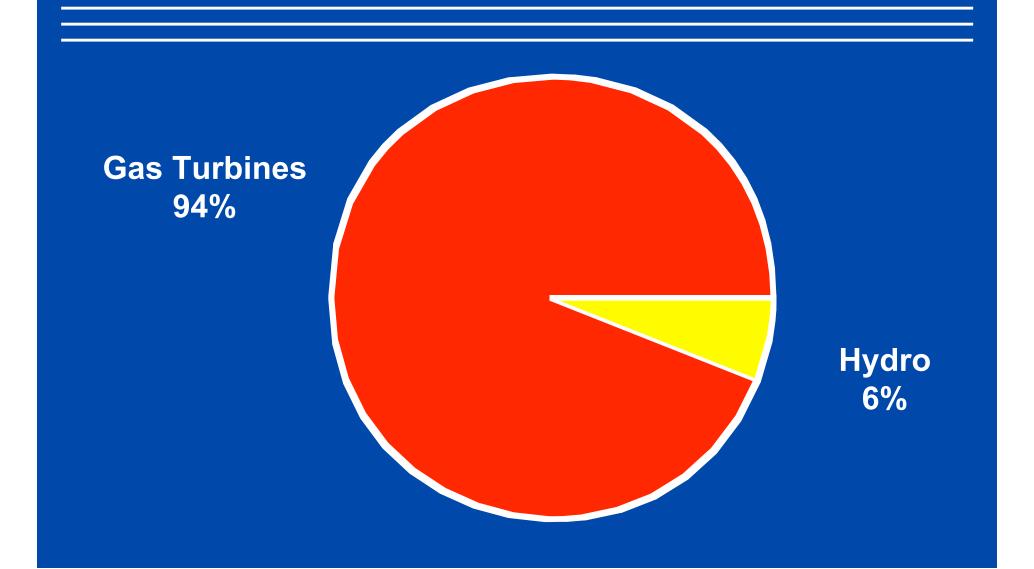
Eugene Bjornstad
General Manager
Chugach Electric Association, Inc.



Natural Gas is Chugach's Primary Fuel Source for Generation

Generation Resources	Type of Ge Natural Gas Turbine	neration Hydro Turbine	Installed Capacity (MW)
Beluga	✓	-	365.6
Bernice Lake	✓	-	70.0
International	√	-	48.6
Eklutna	-	√	14.1
Cooper Lake	-	✓	17.2
Total			515.5

Natural Gas is Chugach's Primary Fuel Source for Generation



Chugach's Contracted Fuel Supply

CHUGACH SUPPLIERS	ANNUAL TAKE (1999)	
Beluga Producers		
Phillips	3.8	
Chevron	3.8	
ML&P	3.8	
Marathon	10.7	
TOTAL	22.1 BCF	

Chugach Has Contracted Fuel Supply Through 2015±

Earlier of:

Beluga Producers 251 BCF

Or

Dec. 2025

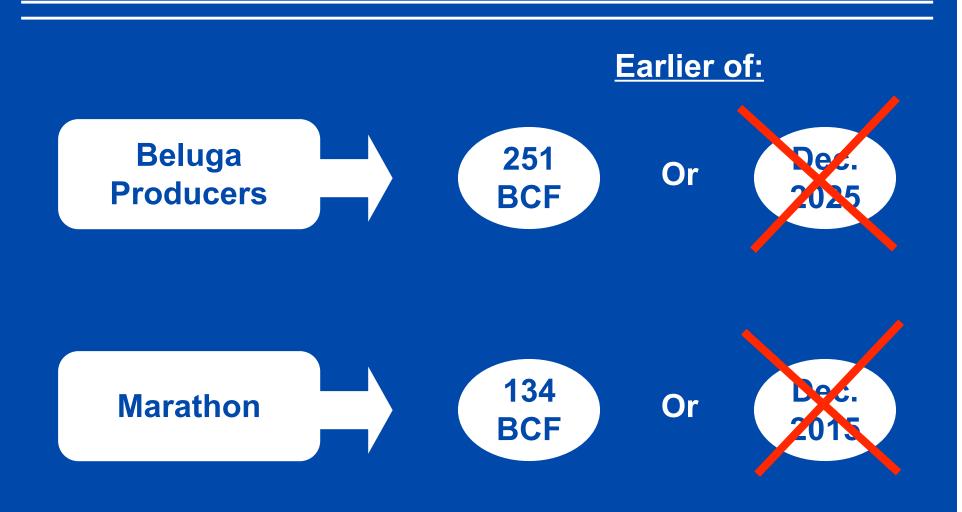
Marathon

134 BCF

Or

Dec. 2015

However, at 22 BCF Per Year, Chugach Will Need Additional Future Supply



Future Fuel Supply Options

New Cook Inlet Natural Gas Reserves

Convert Fuel Supply to Fuel Oil



Coal

North Slope Natural Gas

Future Fuel Supply Options

New Cook Inlet Natural Gas Reserves







North Slope Natural Gas

Railbelt System

Fairbanks

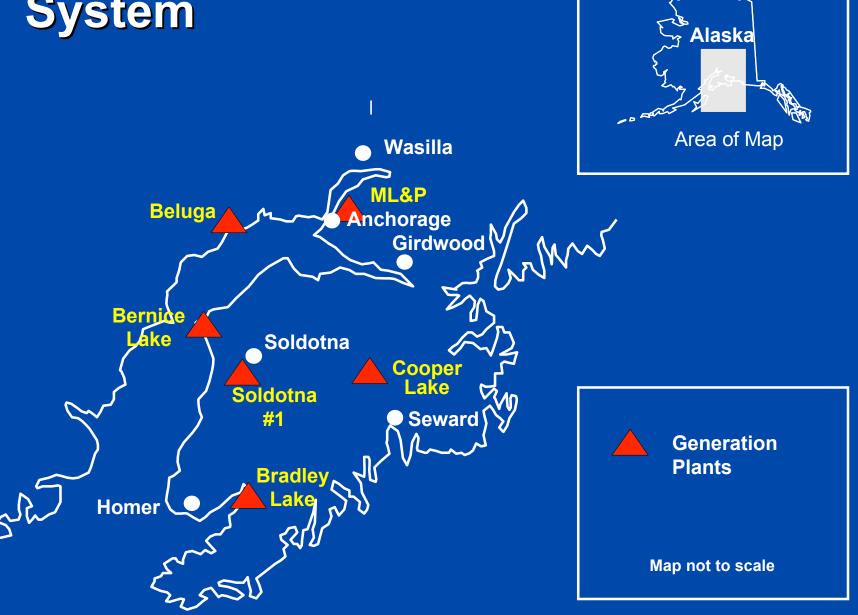


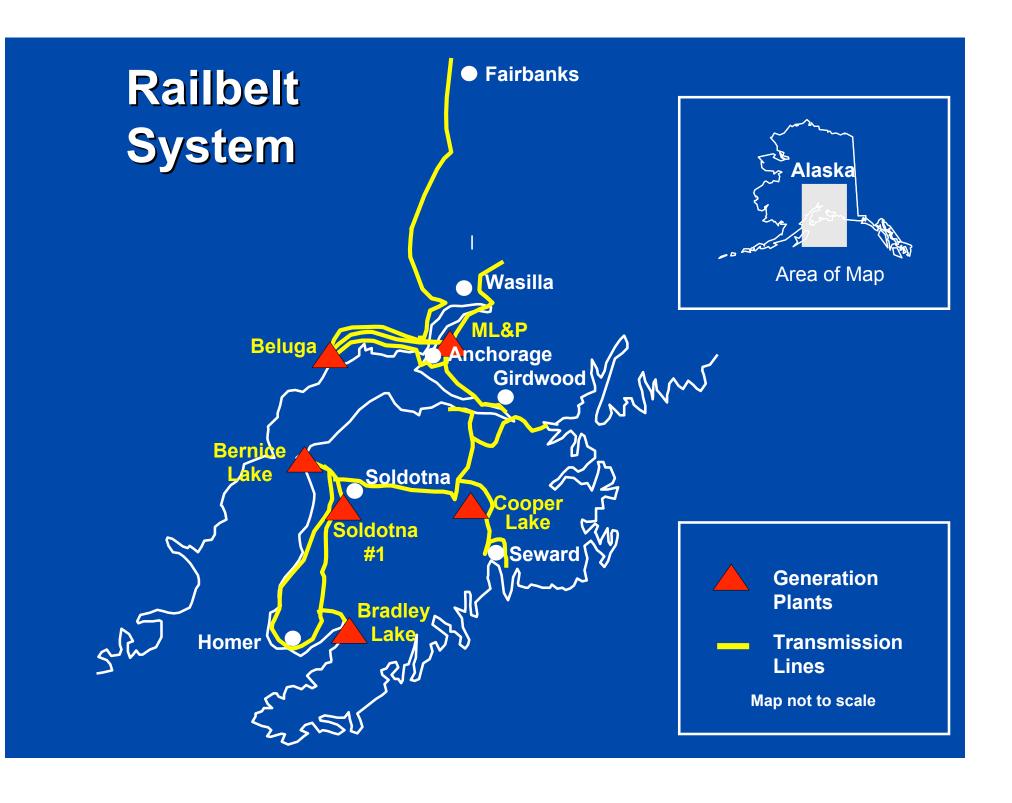


Map not to scale

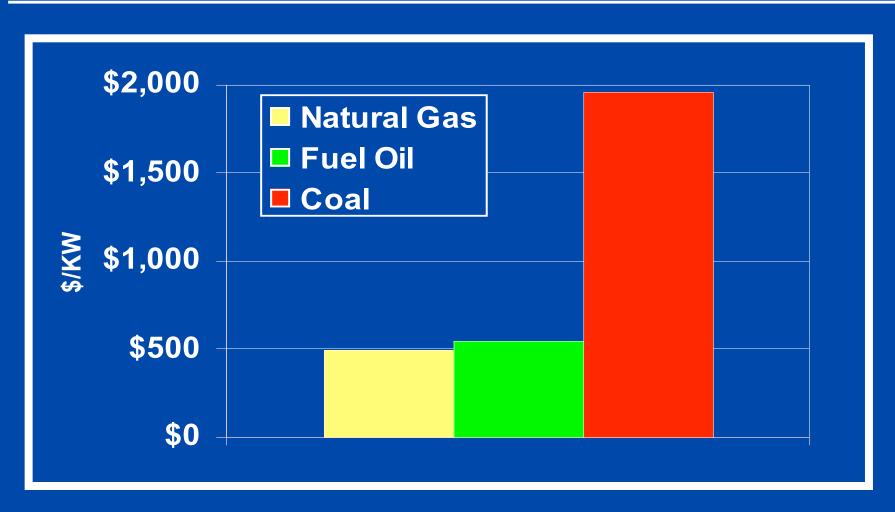
Railbelt System

Fairbanks



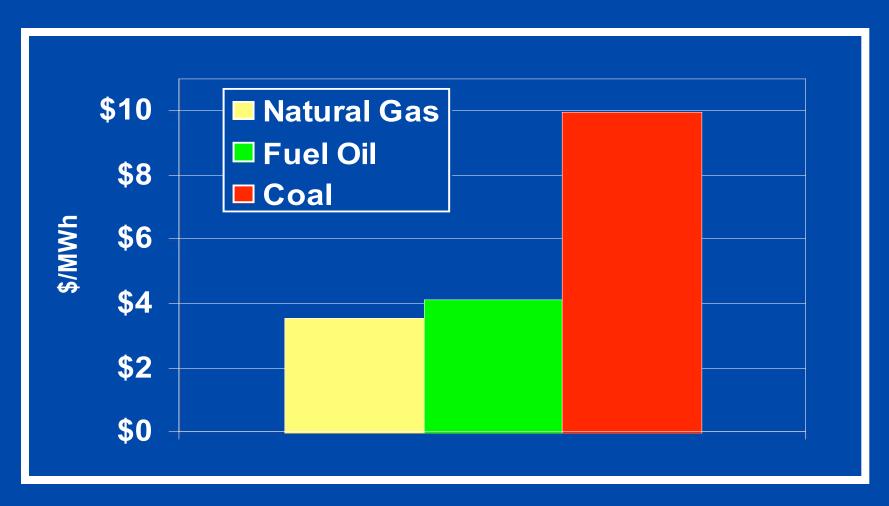


Capital Costs of Alternative Generation



Source: Black & Veatch Power Pooling/Central Dispatch Planning Study, Oct. 1998

O&M Costs of Alternative Generation



Source: Black & Veatch Power Pooling/Central Dispatch Planning Study, Oct. 1998

Natural Gas Remains Competitive Choice

Coal - Not Feasible

vRequires substantial Capital Investment

- → Need several plants due to Railbelt grid layout
- → Need transmission system and new plant sites

vCosts more to operate than natural gas

Natural Gas Remains Competitive Choice

Fuel Oil

vRequires some capital investment in a transport system and conversion of controls in turbines plus storage facilities

vCosts more to operate than natural gas

Conclusions

vChugach will be using natural gas for the foreseeable future

vCook Inlet has a finite supply

vChugach will need new, additional supplies of gas in the not-too-distant future