GOLDEN VALLEY ELECTRIC ASSN. INTERIOR ENERGY ISSUES



Cory Borgeson GVEA President & CEO

February 1, 2013



GVEA at a Glance

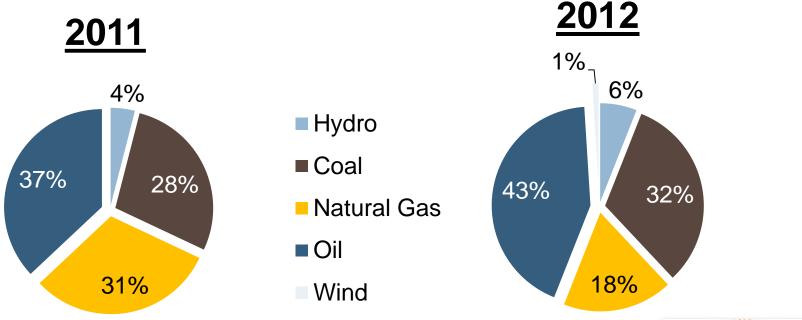
- Owned by 34,480 members
- 5,973 square mile service territory
- 99.97 percent reliability during 2012
 - Average member experienced less than
 2.5 hours without power
- Generation capacity: 291(296) MW
- Anticipated wind generation: 78,840 MWh per year
- 2012 peak load 217.6 MW
- Annual sales: 1.33 billion kWh





Where the Power Comes From

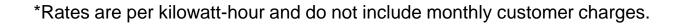
GVEA Fuel Supply





Alaska Residential Electric Rates*

- Fairbanks (GVEA): 20¢
- Minto (Alaska Village Electric):
 - 22¢ (with state assistance)
 - 61¢ (without assistance)
- Glennallen (Copper Valley Electric): 33¢
- Homer (Homer Electric Assn.): 16¢
- Anchorage (Chugach Electric): 13¢





Alaska Urban Space Heating Costs

Simplified Fuel Cost Comparison: Fuel Oil, Propane, Natural Gas

Location, Tariff, System	Fuel Oil, \$/gallon	Propane, \$/gallon	Natural Gas, \$/MCF
	1.00	1.12	7.96
Anchorage June 2012	1.38	1.54	11.00
	2.00	2.24	15.92
	3.00	3.35	23.88
Fairbanks, June 2012	4.00	4.47	31.84
	5.00	5.59	39.80
	6.00	6.71	47.76
	7.00	7.83	55.72

Source: Northern Economics.



Impacts to Our Community



Your Touchstone Energy" Cooperative

Generation Facilities



Bradley Lake (hydro) – 15 MW





Healy Power Plant (coal) – 28 MW





Eva Creek Wind (25MW) – 78,840 MWh/year anticipated generation





Zehnder Power Plant (diesel) – 41 MW





North Pole Power Plant (diesel or HAGO) – 120 MW





North Pole Expansion Power Plant (naphtha or natural gas) - 60 MW



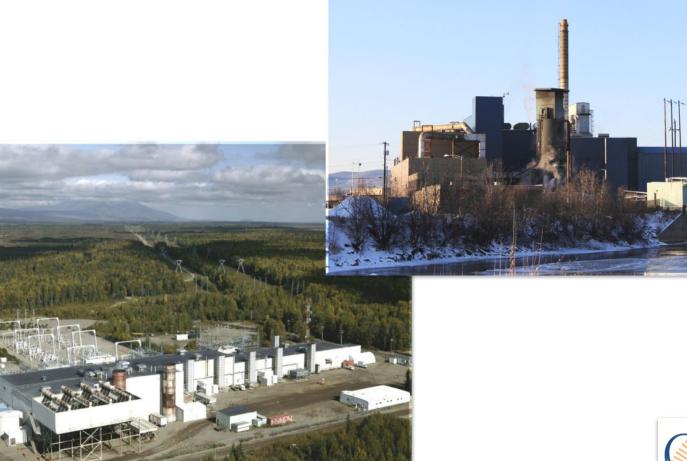


Delta Power Plant (diesel) – 27 MW





Power Purchases





Chugach/MEA (natural gas) – 60 MW (intertie limited to 75/80 MW)



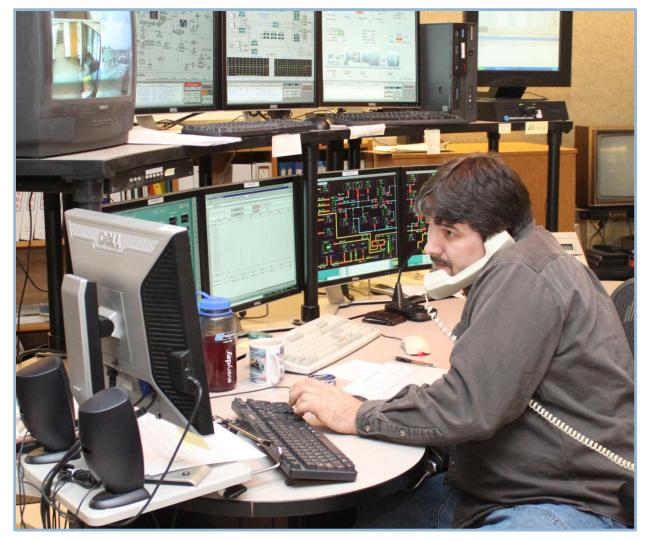


Aurora Energy (coal) – 25 MW





Dispatching Power





Electric Costs at GVEA

- Fuel & Purchased Power Charge: 10.802¢ kWh
- Utility Charge: 9.597¢ kWh
- Customer Charge: \$17.50

<u>http://www.gvea.com/rates/rates</u>





Solutions

- Gas purchases via Intertie
- Healy Clean Coal Plant
- LNG Trucking
- Susitna Hydro
- HVDC Transmission
- Conservation Power to Use Less







Generation Sources Southeast Bush Alaska Hydro Fuel Oil The Bush Fuel Oil • Wind The Railbelt Natural Gas Hydro Fuel Oil Coal olden Valley Electric Association

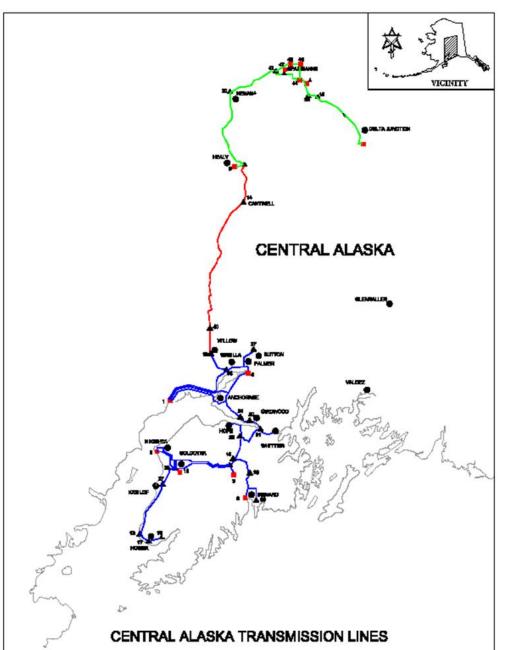
Your Touchstone Energy" Cooperative

Railbelt Electric Overview

- Six distribution utilities
- Interconnection from Homer to Fairbanks
- Three primary generating utilities
- Collection of small, dispersed generating units
- Independent operation modified Lower-48 operating rules for Alaska Intertie



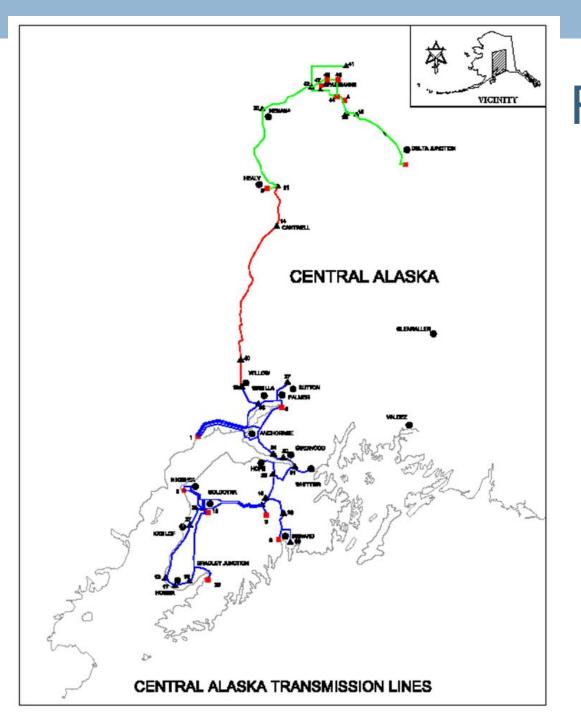




Railbelt - 1980s

- Alaska Intertie Built
- Alaska Intertie Agreement
- Soldotna Unit #1

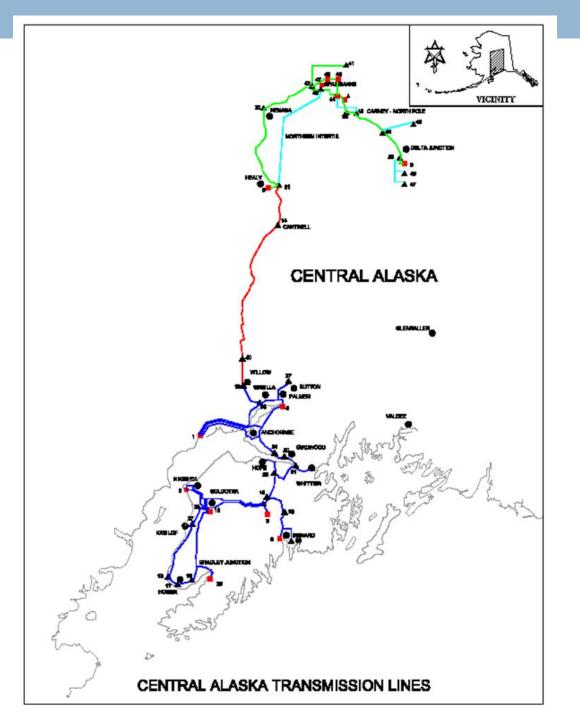




Railbelt –1990s

- Bradley Lake Hydro
- Bradley Transmission Lines

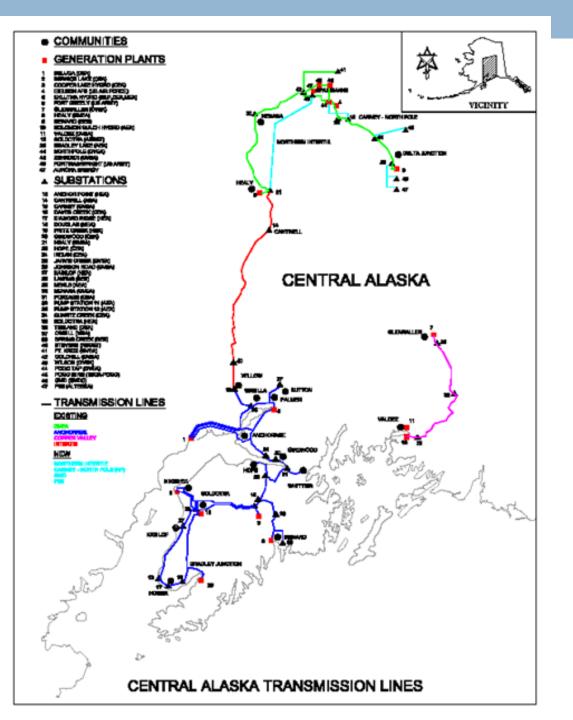




Railbelt - 2000s

- Northern Intertie
- Battery Energy Storage System





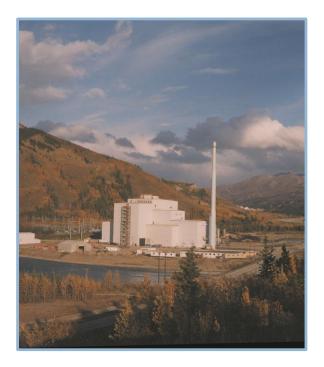
Railbelt Today

- GVEA
- MEA
- ML&P
- Chugach
- SES
- HEA



Healy Clean Coal Plant Update

- 50 MW plant adjacent to Healy I
- Air permit approved in November 2012
- Expect to take possession of plant in 2013
- Estimated online in 2015





Questions



Power to Use Less Ads





Power to Use Less Ads

