

State of the State's Coal Industry

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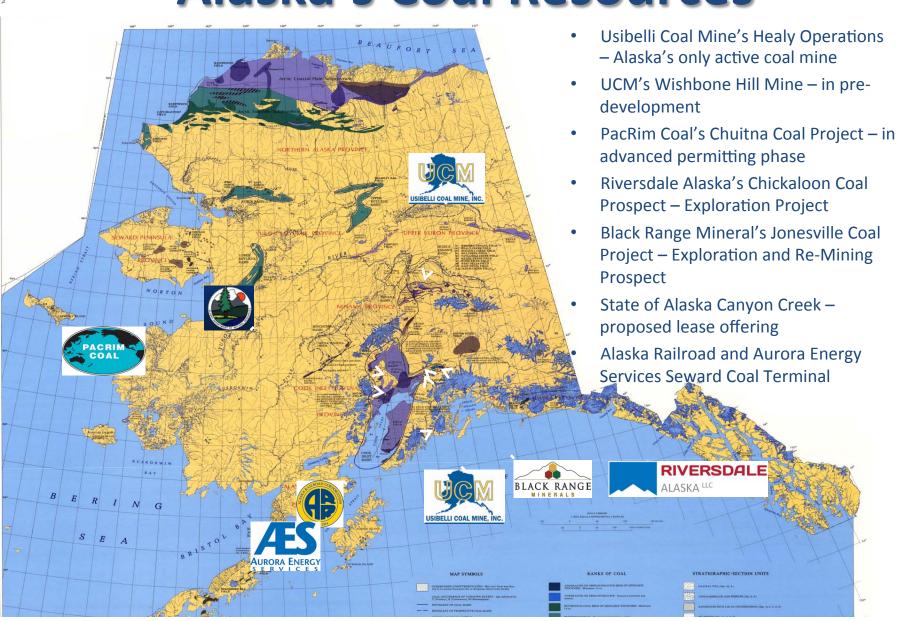




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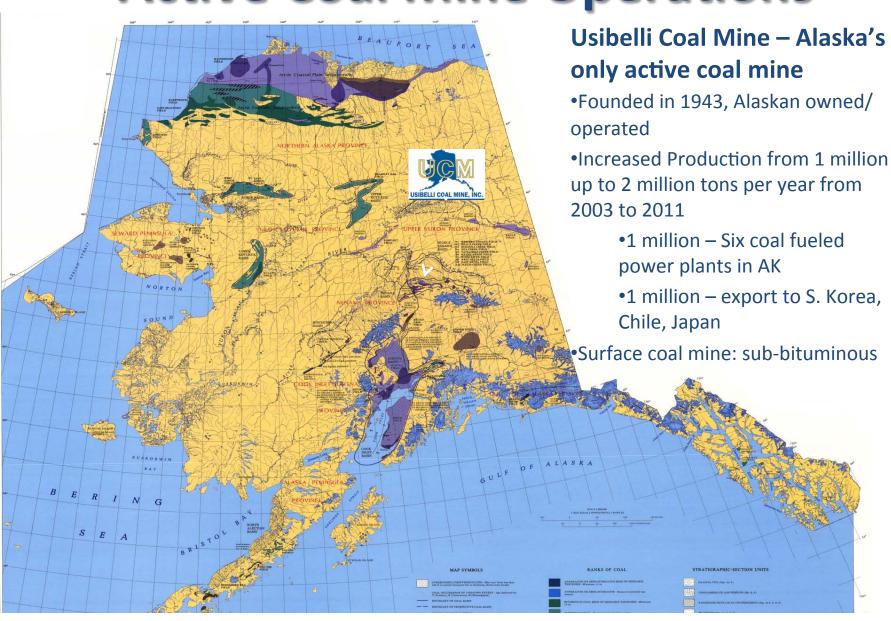
Alaska's Coal Resources



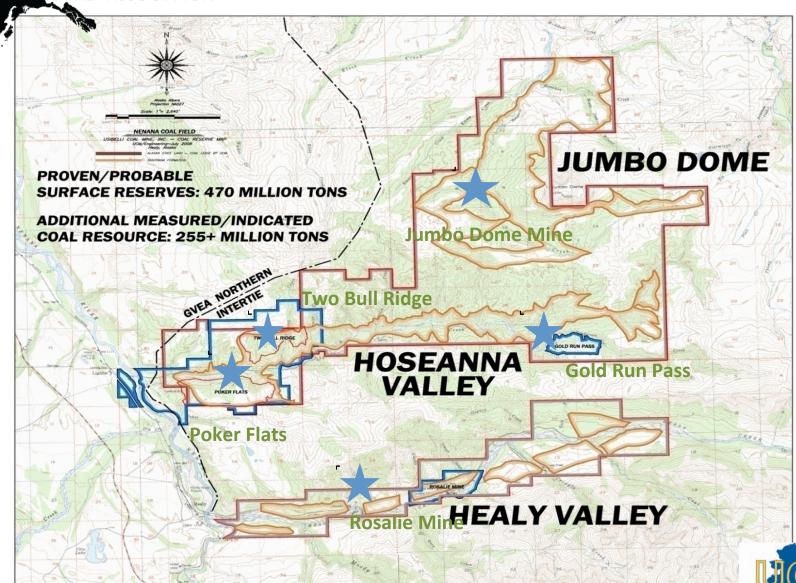
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Active Coal Mine Operations







USIBELLI COAL MINE, INC.

LASKA COAL ASSOCIATION Ace in the Hole at Two Bull Ridge Mine



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Pre-Development Projects

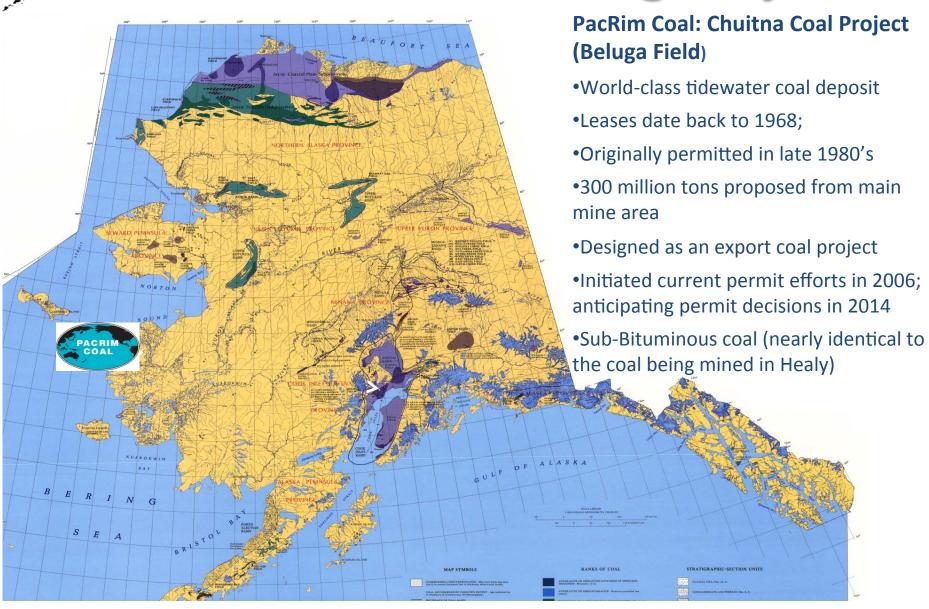
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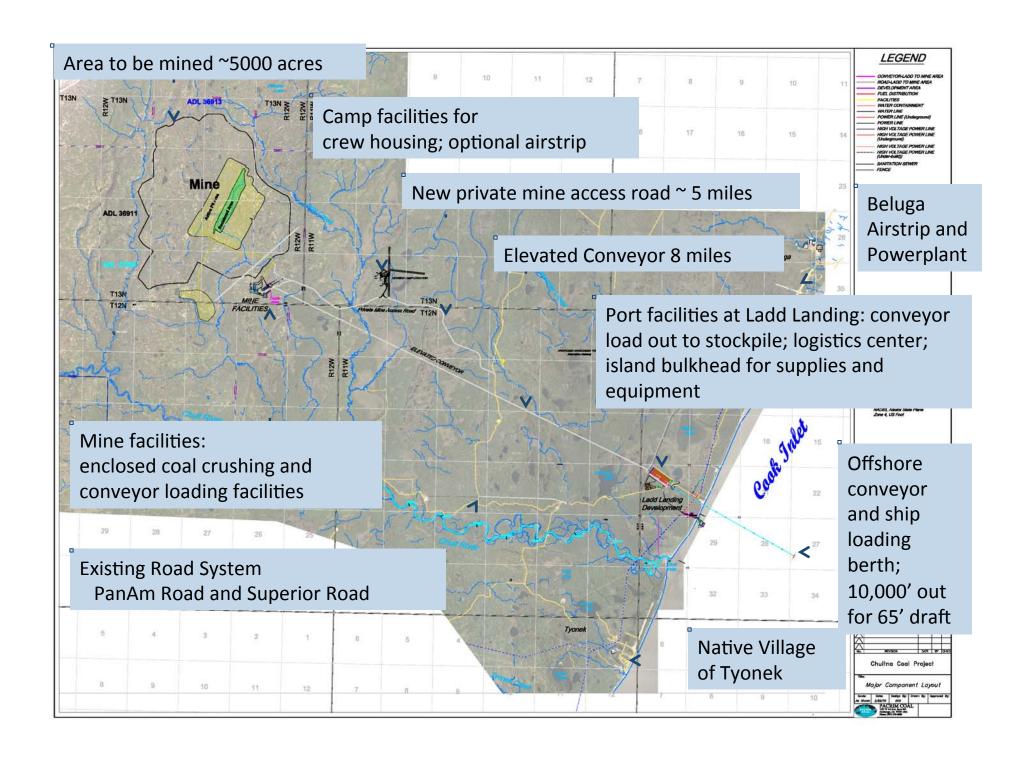






LASKA COAL ASSOCIATION Advanced Permitting Projects

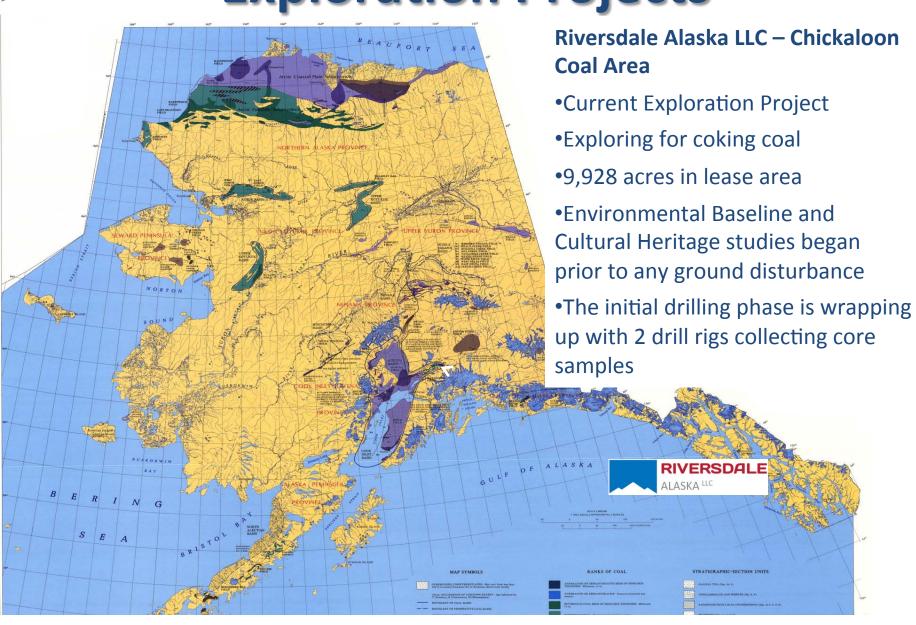


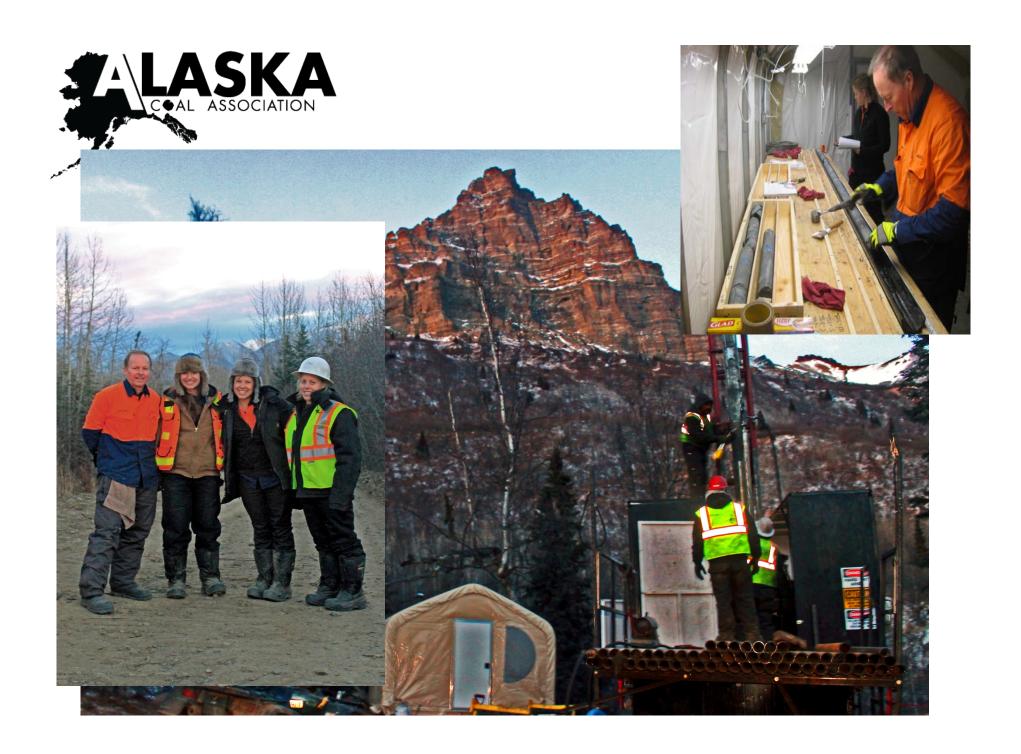


Exploration Projects

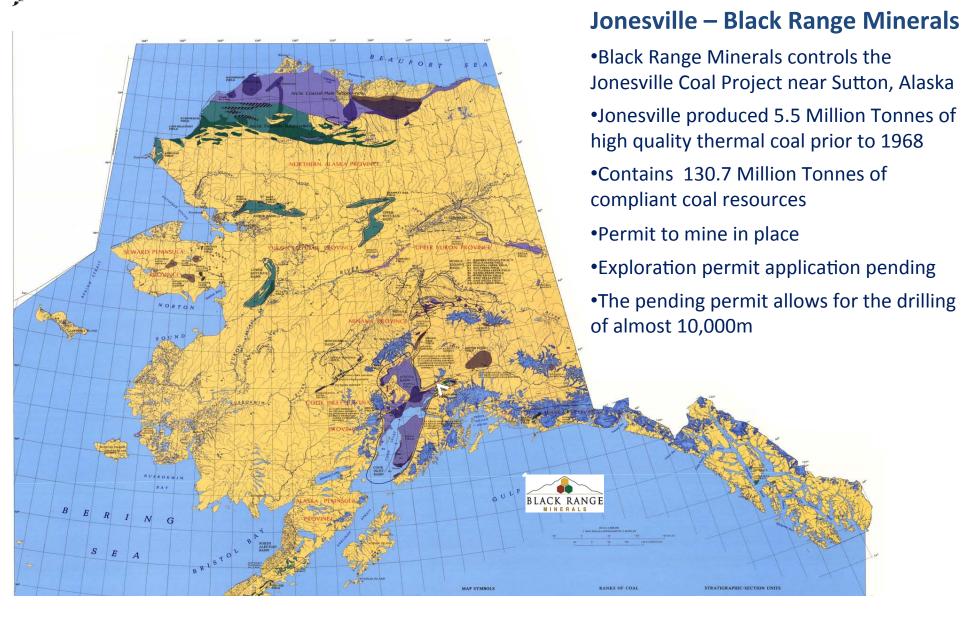
Piversdale Alaska

LASKA

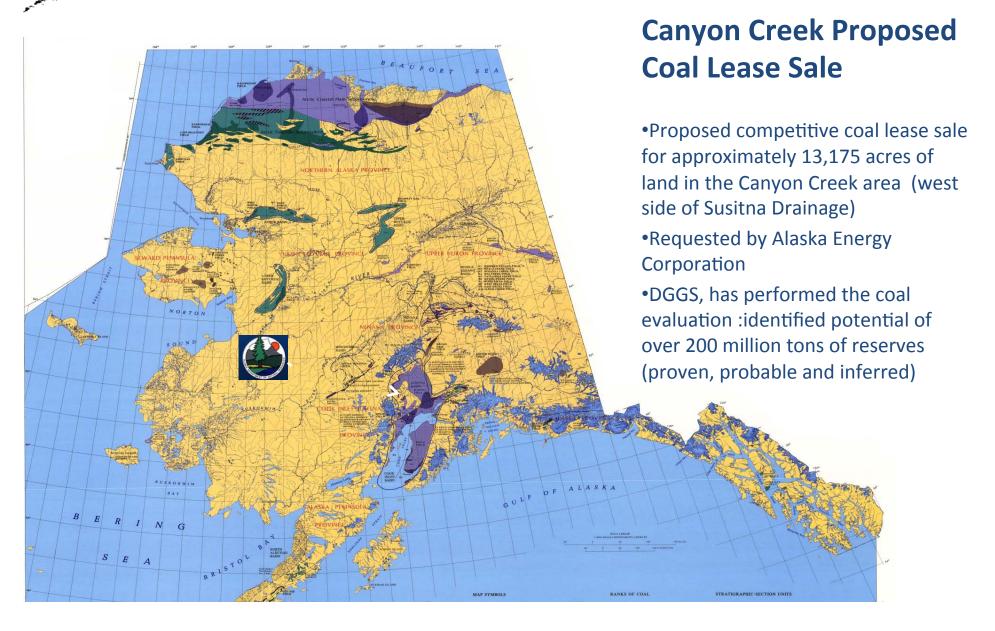




LASKA COAL ASSOCIATION Exploration Projects (cont.)

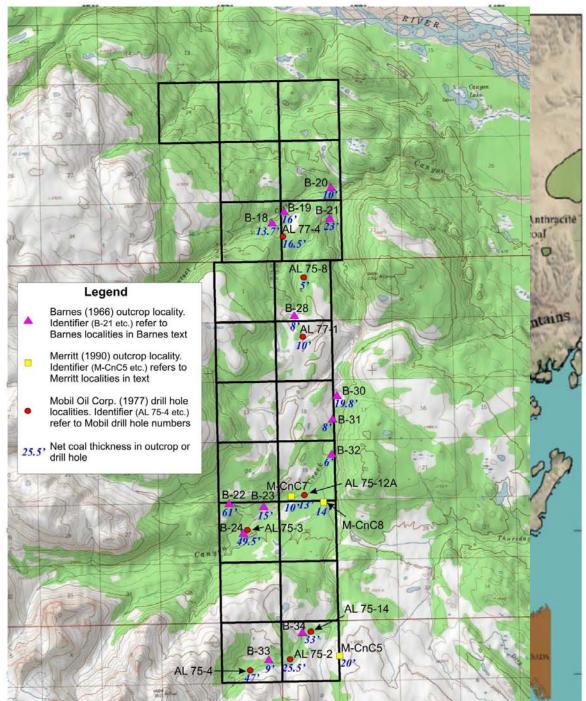




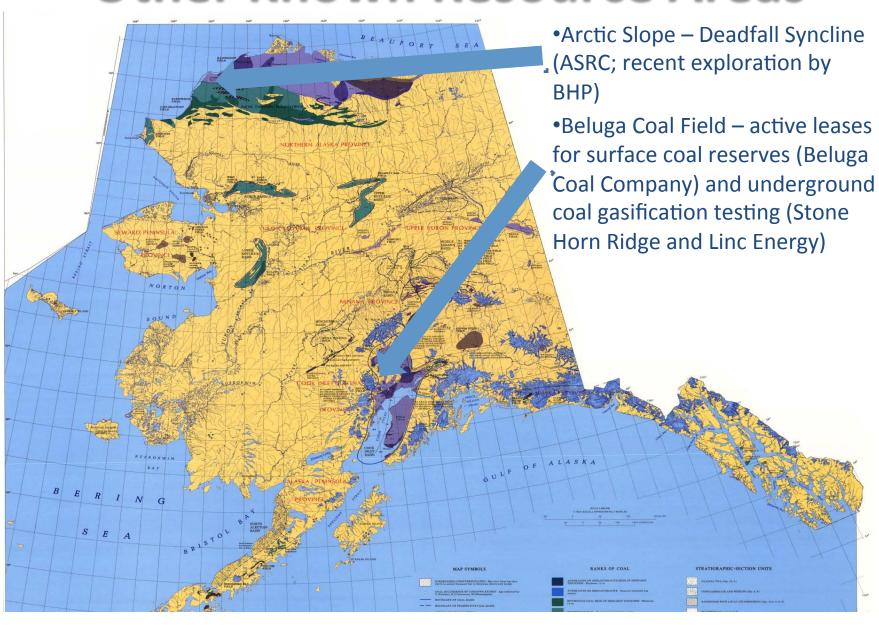




- Limited Past Exploration
- •Will require additional drilling to prove reserves

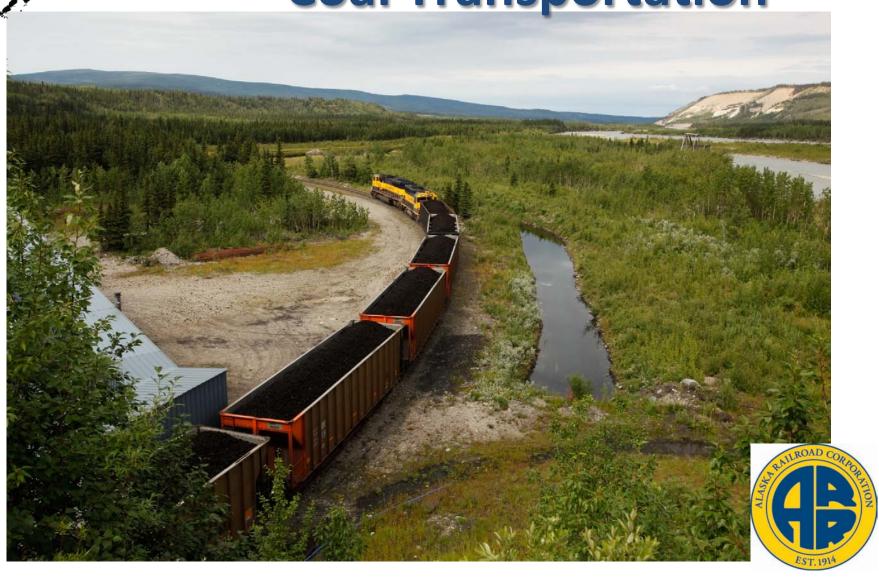


LASKA COAL ASSOCIATION Other Known Resource Areas





Coal Transportation



Alaska Railroad Corporation

Export Coal Numbers

Year	Metric Tons	# of Trains	Tons per Train
2007	336,234	54	6264
2008	471,060	74	6366
2009	801,254	132	6070
2010	954,509	158	6041
2011	1,073,725	168	6391
2012	878,794 (est)	146 (est)	6019

Between 2007 and 2011 tonnage increased by 317%. In 2011 average tons per train increase dramatically as Usibelli maximized coal loadings and ARRC invested in 70 low-tare aluminum hoppers. **2011 was the best year on record and the first time 1 million metric ton mark had been exceeded**.

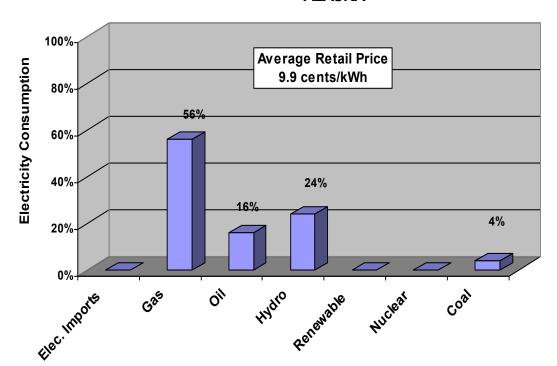






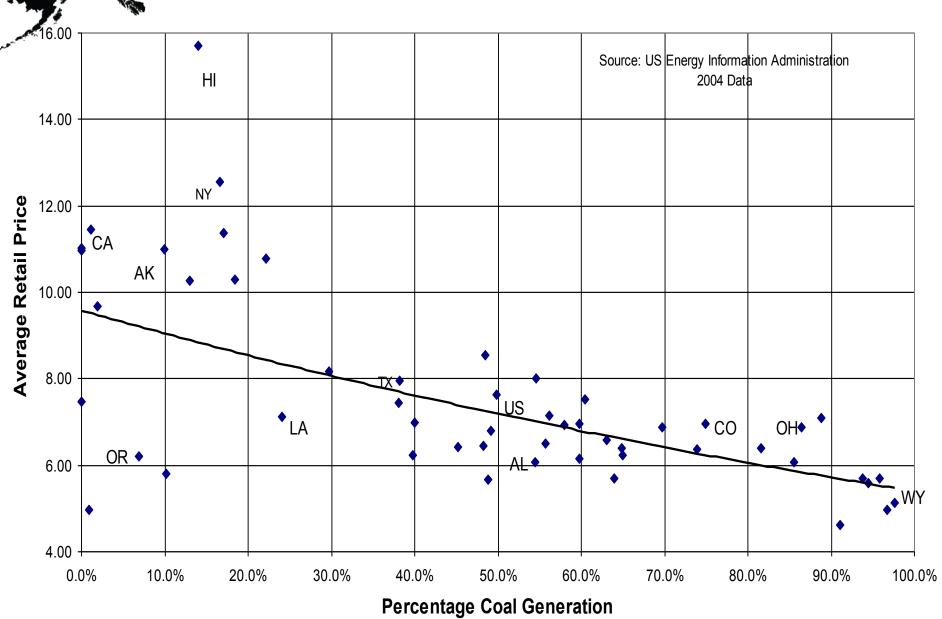
In-State Coal Use





Petroleum 2.9% Nuclear 19.8% Source: U.S. Energy Information Administration, 2k includes non-hydro renewables and other energy so

LASKA COAL ASSOCIATION Coal Effect on Electricity Rates By State



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Alaskan Coal-based Generation

* cogeneration

- Fort Wainwright (US Army)*
- Eileson Air Force Base (US Air Force)*
- Clear Air Force Station (US Air Force)*
- Aurora Energy, Fairbanks, Alaska*
- University of Alaska Fairbanks*
- Golden Valley Electric Association



Proposed New Coal Fired Generation: University of Alaska Fairbanks



- Cogeneration Facility
- Current Plant Has
 Four Boilers (nearly
 50 years old)
- New CFB Plant targeted 2017

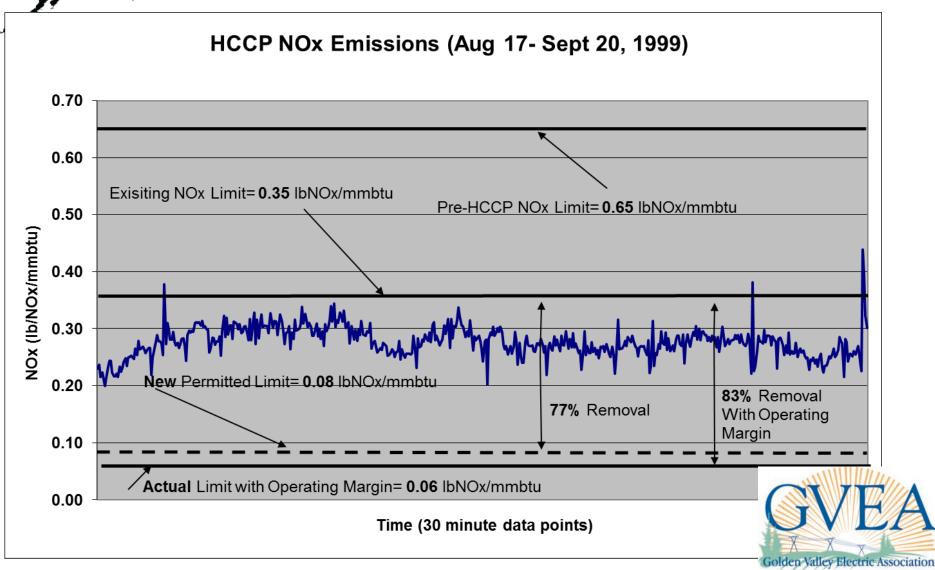
"Reborn" Coal Fired Generation: Healy Clean Coal Plant Background and Status

- 1989 DOE selected HCCP as Clean Coal Technology Program demonstration plant
- 1996-1999 Construction and Start Up of HCCP
- 2000 2009 The Dark Period...
- 2009 AIDEA agrees to sell HCCP to GVEA
- 2012 State air permit issued; consent decree approved (November 19)
- Waiting last approvals to allow asset transfer
- Restart anticipated to take 18 months –
 Anticipate 15 to 20 new jobs





HCCP Performance





HCCP







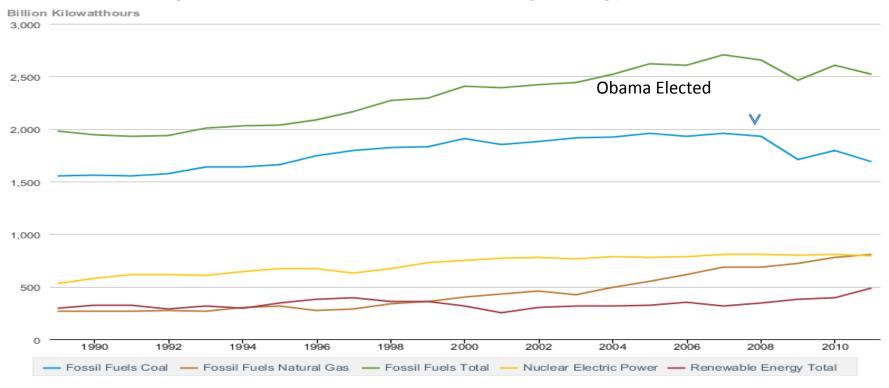
Coal Industry Jobs - DIRECT

	UCM	130	
	Alaska Railroad Corp. (coal trains)	15	
	Seward Coal Terminal	15	
	State and Federal Agencies	7	
Power Plants:			
	Fort Wainwright	42	
	Eielson AFB	55	
	Clear AFS	34	
	Aurora Energy	26	
	GVEA Healy #1/HCCP	34	
	University of Alaska	35	
	Exploration and Development Projects	15	
	Total	408	

Challenges to Development

Current federal administration's policies on coal and fossil fuels

Table 8.2c Electricity Net Generation: Electric Power Sector by Plant Type, 1989-2011



Challenges to Development

 Accelerated anti-coal spending campaigns in Alaska from outside sources

Year	Anti-Coal Spending by FY
2008	\$68,500
2009	\$874,226
2010	\$1,712,322
2011	\$1,371,000

(Note: This is just <u>one</u> funding source – The Alaska Conservation Foundation - with no Alaska-based funding sources listed in their top donors list)



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