

Profiles

Interior Rivers Subregion

Aniak, Chuathbaluk, Crooked Creek, Lime Village, Lower Kalskag, Red Devil, Sleetmute, Stony River, Upper Kalskag

Community Profile: Aniak



Alaska Native Name (definition)

"Aniak," the place where it comes out

Historical Setting / Cultural Resources

The Aniak River played a key role in the placer gold rush of 1900-01. In 1914, Tom L. Johnson homesteaded the site and opened a store and post office. The Yup'ik village of Aniak had been abandoned long before this time. Eskimos Willie Pete and Sam Simeon brought their families from Ohagamuit to Aniak, which reestablished the Native community. A Russian-era trader named Semyeon Lukin is credited with the discovery of gold near Aniak in 1832.

Incorporation 2nd Class City, 1972

Location
Part of the Interior Rivers Subregion. Aniak is located on the south bank of the Kuskokwim River at the head of Aniak Slough, 59 miles southeast of Russian Mission in the Yukon-Kuskokwim Delta. It lies 92 air miles northeast of Bethel and 317 miles west of Anchorage

Longitude -159.5222 **Latitude** 61.5783
ANCSA Region Calista Corporation
Borough/CA Bethel Census Area
School District Kuspuk School District
AEA Region Lower Yukon-Kuskokwim

Taxes **Type (rate)** **Per-Capita Revenue**
 Sales, 2% \$100

Economy
 Subsistence foods contribute largely to villagers' diets.

Climate **Avg. Temp.** **Climate Zone** **Heating Deg. Days**
 87/-55 Maritime 13,983

Natural Hazard Plan
 All-Hazards Mitigation Plan, 2005

Community Plans **Year**
 N/A N/A

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		907-675-4275	907-675-4276
Kuskokwim Native Association		907-675-4384	
City of Aniak	aniakcityof@yahoo.com	907-675-4481	907-675-4486

Demographics	2000	2010	2013
Population	572	501	Percent of Residents Employed 79.38%
Median Age	29	33	Denali Commission Distressed Community No
Avg. Household Size	4	4	Percent Alaska Native/American Indian (2010) 69.46%
Median Household Income		\$60,500	Low and Moderate Income (LMI) Percent (201x) 52%

Electric Utility	Generation Sources	Interties	PCE?
Aniak Light and Power Company	Diesel	No	Yes

Landfill	Class	III	Permitted?	Yes	Location	1.5 mi west of village
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Water/Wastewater System		Homes Served	System Volume
Water	N/A	80	N/A
Sewer	N/A	Water/Wastewater Energy Audit?	
Notes		No	

Access		Runway 1	Runway 2
Road	No	3,000'x400'	6,000'x150'
Air Access	Aniak Airport, asphalt, good condition	Runway 3	Runway 4
	N/A	N/A	N/A
Dock/Port	Yes	Barge Access?	Ferry Service?
		Yes	No

Notes

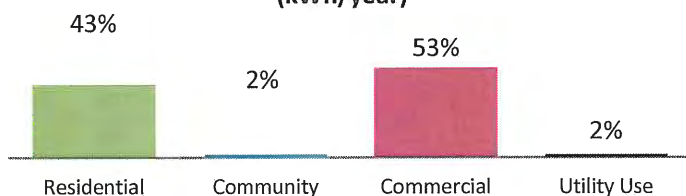
Energy Profile: Aniak

Diesel Power System

Utility	Aniak Light & Power		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1			
Unit 2			
Unit 3			
Unit 4			
Line Loss		7.0%	
Heat Recovery?			
Upgrades	Priority	Projects	Status
RPSU Powerhouse			
RPSU Distribution			
Outage History/Known Issues	No RPSU data.		
Operators	No. of Operators	Training/Certifications	
	2	BFO, PPO	

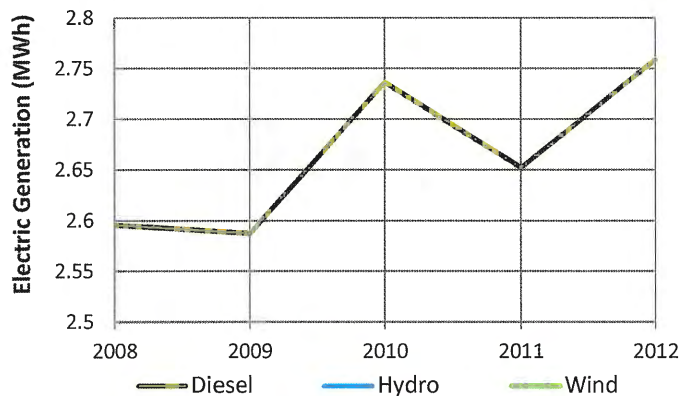
Maintenance Planning (RPSU)	N/A		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	178	986,033	5,540
Community	2	51,758	25,879
Commercial	33	1,209,791	36,660
Utility Use		44,578	

Electric Sales by Customer Type (kWh/year)



Power Production

Diesel (kWh/yr)	2,690,300	Avg. Load (kW)	249
Wind (kWh/yr)		Peak Load (kW)	552
Hydro (kWh/yr)		Efficiency (kWh/gal)	12.82
Total (kWh/yr)	2,690,300	Diesel Used (gals/yr)	209,822



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.25	Fuel Cost	\$0.39
Residential Rate	\$0.76	Non-fuel Cost	\$0.45
Commercial Rate		Total Cost	\$0.83
Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.11	\$7.42	06/13; 8/14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$9.85	8/14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Low	None	
Biomass	Unknown	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Medium	None	
Energy Efficiency	High	None	

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
City of Aniak	Diesel	56,000	
Aniak Light & Pwr	Gasoline	Unknown	Active
Aniak Light & Pwr	Diesel	Unknown	Active
Bulk Fuel Upgrade	Priority	Project	Status

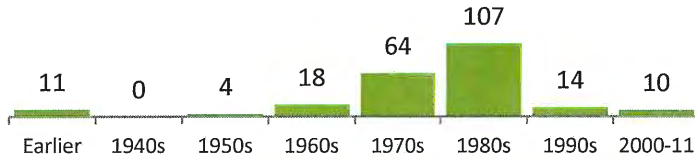
Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge			
By Air			
Cooperative Purchasing Agreements			
Notes			

Energy Profile: Aniak

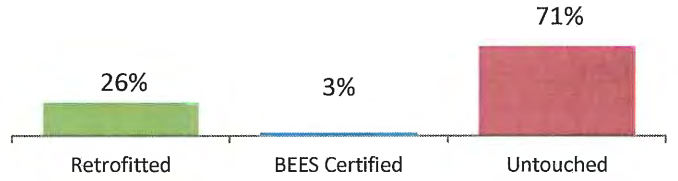
Housing Units	Occupied	Vacant	% Owner-Occup.
	193	35	63%
Housing Need	Overcrowded		1-star
	19.7%		0.4%
Data Quality	Medium		

Regional Housing Authority	Weatherization Service Provider		
AVCP	AVCP		
Energy Use	Average Home Energy Rating	Average Square Feet	Avg. EUI (kBtu/sf)
	2-star	1,156	165

Age of Housing Stock



Energy Efficient Housing Stock

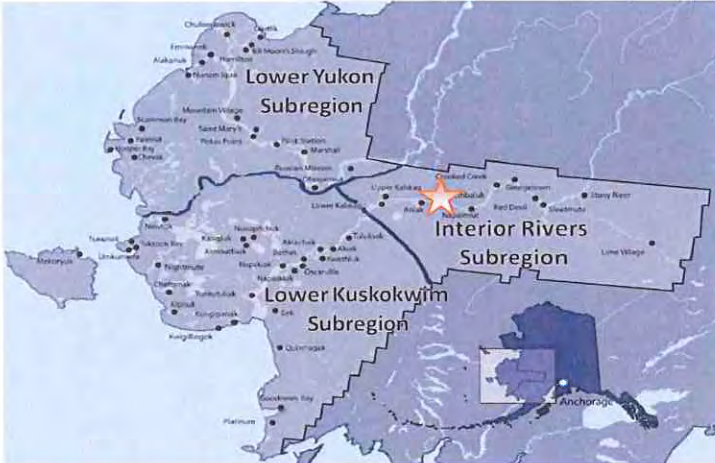


Lighting	Owner	Number/Type	Retrofitted?	Year	Notes
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Non-residential Building Inventory

Building Name or Location	Year Built	Square Feet	Audited?	Retrofits Done?	In ARIS?
Aniak Administration Building	1987	11,500			No
Aniak District Shop	1957	7,400			No
Aniak Hangar	1970	1,440			No
Aniak Jr/Sr High School (AJSHS)	1983	20,916	Yes, Nortech		Yes
Auntie Mary Nicoli Elementary School	1930; 1993	19,471	Yes, Nortech		Yes
CLARA MORGAN HEALTH CLINIC	1995				No
Cold Storage		1,920			No
COMMUNITY BUILDING	2006	2,699			No
District Office Building (DO)	1987	12,576	Yes, Nortech		Yes
District Shop/Bus Barn	1960	7,400			Yes
District Storage Building	1982	4,000			No
Generator Shed		336			No
Joe Parent RVEC/Aniak Middle School	1957	31,900			No
Sand Storage		2,800			No
Sre Building	1976	3,200			No

Community Profile: Chuathbaluk



Alaska Native Name (definition)

N/A

Historical Setting / Cultural Resources

Chuathbaluk was the site of an Ingalik Indian summer fish camp in the mid-1800s. The village has been known as Chukbak, St. Sergius Mission, Kuskokwim Russian Mission, and Little Russian Mission. In the 1960s, the name was changed to Chuathbaluk, which is derived from the Yup'ik word "Curapalek," meaning "the hills where the big blueberries grow." Much of the village was lost in an influenza epidemic in 1900. In 1954, the Sam Phillips family from Crow Village resettled the mission and were joined later by individuals from Aniak and Crooked Creek. The church was rebuilt in the late 1950s, and a state school opened in the 1960s.

Incorporation 2nd Class City, 1975

Location

Part of the Interior Rivers Subregion. Chuathbaluk is located on the north bank of the Kuskokwim River, 11 miles upriver from Aniak in the Kilbuk-Kuskokwim mountains. It is 87 air miles northeast of Bethel and 310 miles west of Anchorage.

Longitude -159.245 **Latitude** 61.5719

ANCSA Region Calista Corporation

Borough/CA Bethel Census Area

School District Kuspuk School District

AEA Region Lower Yukon-Kuskokwim

Taxes	Type (rate)	Per-Capita Revenue
Sales, 0%		N/A

Economy

Subsistence is a crucial source of food.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	87/-55	Continental	N/A

Natural Hazard Plan

N/A

Community Plans

N/A

Year

N/A

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		907-243-2944	
Native Village of Chuathbaluk	chuathtradcouncil@gmail.com	907-467-4313	907-467-4113
City of Chuathbaluk	coc99557@yahoo.com	907-467-4115	907-467-4117

Demographics	2000	2010	2013
Population	119	118	Percent of Residents Employed 67.57%
Median Age	23	25	Denali Commission Distressed Community Yes
Avg. Household Size	4	4	Percent Alaska Native/American Indian (2010) 88.14%
Median Household Income		\$60,179	Low and Moderate Income (LMI) Percent (201x) 76%

Electric Utility	Generation Sources	Interties	PCE?
Middle Kuskokwim Electric Cooperative	Diesel	No	Yes

Landfill	Class	Permitted?	Location
	III	No	East edge of town

Water/Wastewater System			Homes Served	System Volume
Water	Circ		123	N/A
Sewer	N/A		Water/Wastewater Energy Audit?	
Notes			Yes	

Access		Runway 1	Runway 2	Runway 3	Runway 4
Road	No				
Air Access	Chuathbaluk Airport, gravel, fair condition	3,401'x60'			
	N/A	N/A			
Dock/Port	Yes	Barge Access? Yes	Ferry Service?	No	No

Notes

Energy Profile: Chuathbaluk

Diesel Power System

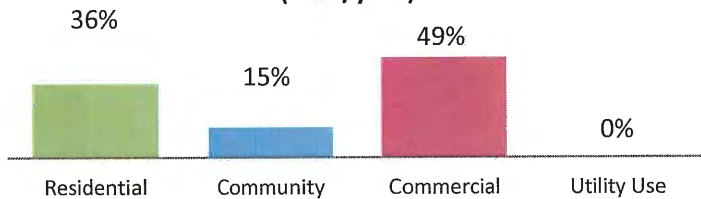
Utility	Middle Kuskokwim Electric		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	John Deere	Fair/29,513	78
Unit 2	John Deere	Fair/25,486	64
Unit 3	John Deere	Fair/9,210	37
Unit 4			
Line Loss	Not Reported		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	High		
RPSU Distribution	Med.		
Outage History/Known Issues	No 2013 gen. data due to meter failure. 2012 data used.		

Operators	No. of Operators	Training/Certifications
	8	APPO, BF Bus, BFO, PPO

Maintenance Planning (RPSU)	Acceptable
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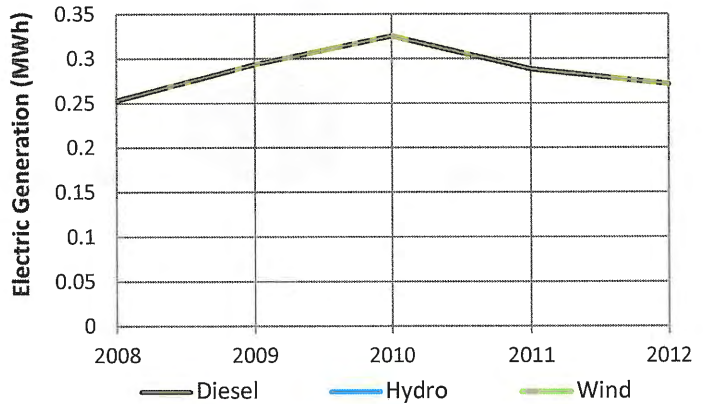
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	30	97,096	3,237
Community	5	39,985	7,997
Commercial	12	130,901	10,908
Utility Use		0	

Electric Sales by Customer Type (kWh/year)



Power Production

Diesel (kWh/yr)	271,800	Avg. Load (kW)	25
Wind (kWh/yr)	0	Peak Load (kW)	56
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	N/A
Total (kWh/yr)	271,800	Diesel Used (gals/yr)	28,237



Electric Rates (\$/kWh)	Cost per kWh Sold (\$/kWh)
Rate with PCE \$0.19	Fuel Cost \$0.47
Residential Rate \$0.80	Non-fuel Cost \$0.31
Commercial Rate	Total Cost \$0.77

Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.68	\$7.49	6-13; 8-14

Other Fuel? (1 gal)

Gasoline (1 gal)

Propane (100#) \$268.33 8-14

Wood (1 cord)

Pellets

Discounts?

Alternative Energy	Potential	Projects	Status
Hydroelectric	Medium		None
Wind Diesel	Low		None
Biomass	High		None
Solar	Medium		None
Geothermal	Low		None
Oil and Gas	Low		None
Coal	Low		None
Emerging Tech	Not Rated		None
Heat Recovery	Unknown	Heat Recovery for Water System	Design/Construction
Energy Efficiency	High	1) Sanitation EE 2) Clinic EE	1) Funded 2) Complete

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
City	Heating Oil	16,000	Good
City	Gasoline	16,000	Good
Tank Farm		64,000	
Bulk Fuel Upgrade	Priority	Project	Status

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge	1		
By Air			

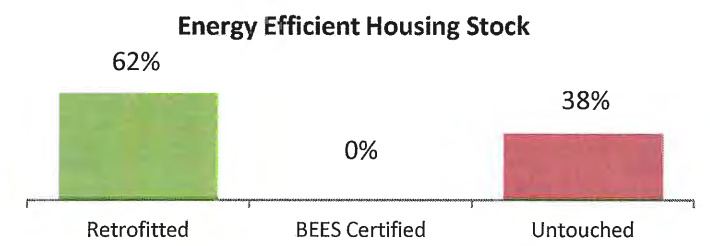
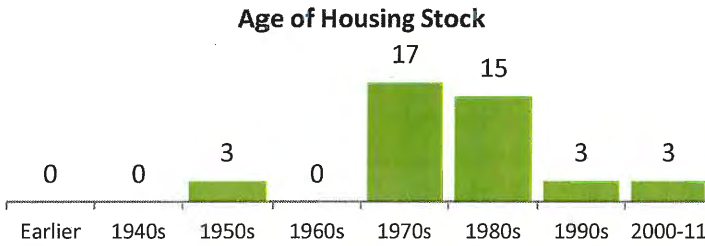
Cooperative Purchasing Agreements

Notes
Barge delivery in July.

Energy Profile: Chuathbaluk

Housing Units	Occupied	Vacant	% Owner-Occup.
	26	14	31%
Housing Need	Overcrowded		1-star
	23.1%		N/A
Data Quality	Medium		

Regional Housing Authority	Weatherization Service Provider		
AVCP	AVCP		
Energy Use	Average Home Energy Rating	Average Square Feet	Avg. EUI (kBtu/sf)
	N/A	N/A	N/A



Lighting	Owner	Number/Type	Retrofitted?	Year	Notes
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Non-residential Building Inventory

Building Name or Location	Year Built	Square Feet	Audited?	Retrofits Done?	In ARIS?
Chapel		1,200			No
City Building		1000			No
Clinic	2003	2068	Yes		No
Crow Village Sam School	1977-1984	10452	Yes		Yes
Grocery Store		950			No
Lift Station	2005	225	Yes		No
SRE Building #1	1992	960			No
SRE Building #2 (Heated)					No
Tribal Office	1975	1265	Yes		No
Water Treatment Plant	2004	621	Yes		No

Community Profile: Crooked Creek



Incorporation Unincorporated in the Bethel Census Area

Location
Part of the Interior Rivers Subregion. Crooked Creek is located on the north bank of the Kuskokwim River at its junction with Crooked Creek. It lies in the Kilbuk-Kuskokwim Mountains 50 miles northeast of Aniak, 141 miles northeast of Bethel, and 275 miles west of Anchorage.

Longitude	-158.1108	Latitude	61.8700
ANCSA Region	Calista Corporation		
Borough/CA	Bethel Census Area		
School District	Kuspuk School District		
AEA Region	Lower Yukon-Kuskokwim		

Taxes Type (rate)	Per-Capita Revenue
N/A	N/A

Economy
Crooked Creek is a village with a lifestyle reliant on subsistence activities.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	94/-59	Continental	N/A

Natural Hazard Plan
N/A

Community Plans	Year
Community Plan Latest Highlights, 2008	2008

Alaska Native Name (definition)

N/A

Historical Setting / Cultural Resources

It was first reported in 1844 by the Russian explorer Zagoskin, who recorded the name of the creek as "Kvikchagpak" ("great bend" in Yup'ik) and as "Khottyno" ("sharp turn" in Ingalik). In 1909, a permanent settlement was established as a way station for the Flat and Iditarod gold mining camps. A post office was opened in 1927, and a school was built in 1928. The "lower village" was settled by Eskimos and Ingalik Indians. By the early 1940s, there was a Russian Orthodox Church, St. Nicholas Chapel, and several homes. Gold production continued through the late 1980s, when Western Gold Mining and Exploration went out of business.

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		907-243-2945	
Village of Crooked Creek	bbcc@starband.net	907-432-2201	907-432-2202

Demographics	2000	2010	2013
Population	137	105	
Median Age	25	21	
Avg. Household Size	4	3	
Median Household Income		\$31,750	
Percent of Residents Employed			71.61%
Denali Commission Distressed Community			Yes
Percent Alaska Native/American Indian (2010)			83.81%
Low and Moderate Income (LMI) Percent (201x)			N/A

Electric Utility	Generation Sources	Interties	PCE?
Middle Kuskokwim Electric Cooperative	Diesel	No	Yes

Landfill	Class	III	Permitted?	Yes	Location	Southwest edge of community
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Water/Wastewater System	Homes Served	System Volume
Water Washeteria	147	<10,000
Sewer N/A	Water/Wastewater Energy Audit?	
Notes	No	

Access	No		
Road	No		
Air Access	Crooked Creek Airport, gravel-dirt, poor condition	Runway 1 2,029'x60'	Runway 2 N/A
	Donlin Creek Airport	Runway 3 4,193'x75'	Runway 4 N/A
Dock/Port	No	Barge Access? Yes	Ferry Service? No

Notes

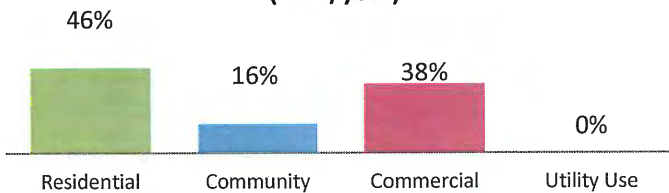
Energy Profile: Crooked Creek

Diesel Power System

Utility	Middle Kuskokwim Electric		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	John Deere	Fair/9,186	95
Unit 2	John Deere	Fair/33,010	64
Unit 3	John Deere	Fair/19,363	64
Unit 4			
Line Loss	9.2%		
Heat Recovery?	Yes; Washeteria, Water Treatment Plant		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	Med.		
RPSU Distribution	Med.		
Outage History/Known Issues			
Gen. 3 shuts down every 4-8 hrs, service meter broken.			
Operators	No. of Operators	Training/Certifications	
	3	BFO, PPO, BF Bus.	

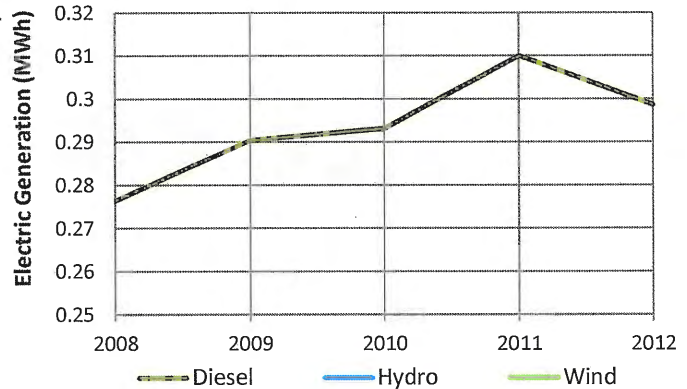
Maintenance Planning (RPSU)	Good		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	35	115,393	3,297
Community	3	39,528	13,176
Commercial	12	93,865	7,822
Utility Use		0	

Electric Sales by Customer Type (kWh/year)



Power Production

Diesel (kWh/yr)	273,925	Avg. Load (kW)	27
Wind (kWh/yr)	0	Peak Load (kW)	59
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	12
Total (kWh/yr)	273,925	Diesel Used (gals/yr)	23,418



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.19	Fuel Cost	\$0.42
Residential Rate	\$0.80	Non-fuel Cost	\$0.33
Commercial Rate		Total Cost	\$0.75
Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.68	\$7.80	6-13; 8-14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$363.10	8-14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy	Potential	Projects	Status
Hydroelectric	Medium	None	
Wind Diesel	Low	None	
Biomass	High	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	Water system	Operational
Energy Efficiency	High	VEEP	Complete

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
Utility	Heating Oil	179,000	Good
Thomas Trade.	Heating Oil	40,000	Good
Thomas Trade.	Gasoline	40,000	Good
Bulk Fuel Upgrade	Priority	Project	Status

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge	3		
By Air			
Cooperative Purchasing Agreements			

Notes
Barge delivery to Utility 1x/yr, 2x/yr to Thomas Trading Post

Community Profile: Lime Village



Incorporation Unincorporated in the Bethel Census Area

Location
Part of the Interior Rivers Subregion. Lime Village is located on the south bank of the Stony River, 50 miles southeast of its junction with the Kuskokwim River. The village is 111 air miles south of McGrath, 137 miles east of Aniak, and 185 miles west of Anchorage.

Longitude	-155.4356	Latitude	61.3564
ANCSA Region	Calista Corporation		
Borough/CA	Bethel Census Area		
School District	Kuspuk School District		
AEA Region	Lower Yukon-Kuskokwim		

Alaska Native Name (definition)

N/A

Historical Setting / Cultural Resources

Lime Village was named for the nearby limestone hills. The earliest recorded settlement was in 1907, when Paul, Evan, and Zacar Constantinoff were year-round residents. People from nearby Lake Clark used the area for a summer fish camp. The 1939 U.S. Census called the settlement "Hungry Village." A Russian Orthodox chapel, Saints Constantine and Helen, was built in 1960. A state school was constructed in 1974.

Taxes Type (rate)		Per-Capita Revenue
N/A		N/A

Economy

Lime practices a subsistence lifestyle.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	82/47	Continental	N/A

Natural Hazard Plan

N/A

Community Plans	Year
N/A	N/A

Local Contacts	Email	Phone	Fax
Lime Village Company		907-276-1550	907-276-3680
Lime Village; : Fax: Email:	limevillage@gmail.com	907-526-5236	907-526-5235

Demographics	2000	2010	2013
Population	46	29	Percent of Residents Employed 88.89%
Median Age	44	51	Denali Commission Distressed Community Yes
Avg. Household Size	0	3	Percent Alaska Native/American Indian (2010) 93.10%
Median Household Income		\$143,125	Low and Moderate Income (LMI) Percent (201x) N/A

Electric Utility	Generation Sources	Interties	PCE?
Lime Village Electric Utility	Diesel	No	Yes

Landfill	Class	III	Permitted?	No	Location	1/4 mile west of community
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Water/Wastewater System				Homes Served	System Volume
Water	Washeteria		N/A	N/A	
Sewer	N/A		Water/Wastewater Energy Audit?	No	
Notes					

Access						
Road	No					
Air Access	Lime Village Airport, gravel-dirt, fair condition		Runway 1	1,500'x55'	Runway 2	N/A
	N/A		Runway 3	N/A	Runway 4	N/A
Dock/Port	No		Barge Access?	No	Ferry Service?	No
Notes						

Energy Profile: Lime Village

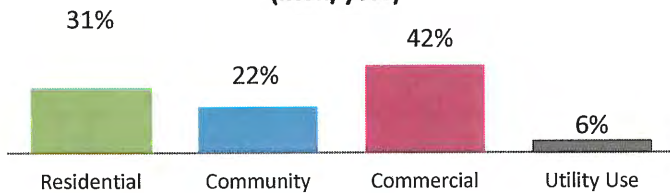
Diesel Power System

Utility	Lime Village Electric Utility		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1			
Unit 2			
Unit 3			
Unit 4			
Line Loss	23.7%		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	Med.		
RPSU Distribution	Low		
Outage History/Known Issues			
No RPSU 2012 generator data.			
Operators	No. of Operators	Training/Certifications	
	4	APPO, PPO, Clerk	

Maintenance Planning (RPSU)

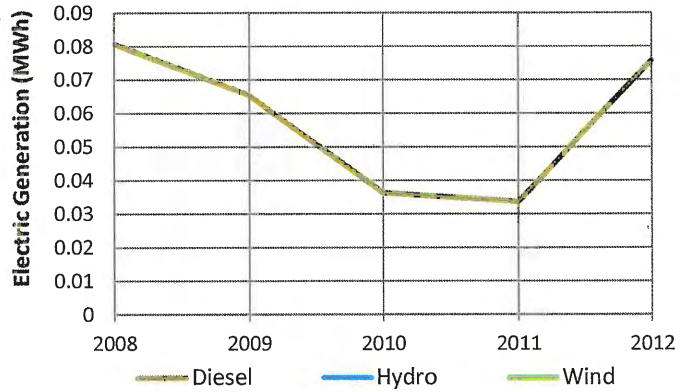
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	17	17,633	1,037
Community	5	12,438	2,488
Commercial	3	23,719	7,906
Utility Use		3,347	

**Electric Sales by Customer Type
(kWh/year)**



Power Production

Diesel (kWh/yr)	74,896	Avg. Load (kW)	9
Wind (kWh/yr)	0	Peak Load (kW)	20
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	9.70
Total (kWh/yr)	74,896	Diesel Used (gals/yr)	7,720



Electric Rates (\$/kWh)

Rate with PCE	\$0.96
Residential Rate	\$1.77
Commercial Rate	

Cost per kWh Sold (\$/kWh)

Fuel Cost	\$1.11
Non-fuel Cost	\$1.05
Total Cost	\$2.16

Fuel Prices (\$)

	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$7.91	\$7.91	6-13; 8-14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$327.86	8-14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Low	None	
Biomass	High	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	None	
Energy Efficiency	Medium	None	

Bulk Fuel

Tank Owner	Fuel Type(s)	Capacity	Age/Condition
DOT	Heating Fuel	1,000	
Tank Farm	Diesel	3,000	
School Dist.		14,000	
Bulk Fuel Upgrade	Priority	Project	Status

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge			
By Air			
Cooperative Purchasing Agreements			

Notes

Community Profile: Lower Kalskag



Incorporation 2nd Class City, 1969

Location
Part of the Interior Rivers Subregion. Lower Kalskag is located on the north bank of the Kuskokwim River, 2 miles downriver from Upper Kalskag. It lies 26 miles west of Aniak, 89 miles northeast of Bethel, and 350 miles west of Anchorage.

Longitude	-160.3581	Latitude	61.5122
ANCSA Region	Calista Corporation		
Borough/CA	Bethel Census Area		
School District	Kuspuk School District		
AEA Region	Lower Yukon-Kuskokwim		

Taxes Type (rate)	Per-Capita Revenue
Sales, 0%	N/A

Economy
Subsistence activities provide food sources. Residents fish for salmon and hunt for moose, waterfowl, black bear and porcupine. The sale and importation of alcohol is banned.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	87/-55	Semi-arctic	10,731

Natural Hazard Plan
Lower Kalskag Hazard Mitigation Plan, 2013

Community Plans	Year
N/A	N/A

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		(907) 243-2944	
Village of Lower Kalskag	kalskagribal@yahoo.com	907-471-2379	907-471-2378
City of Lower Kalskag	cclerk56@yahoo.com	907-471-2228	907-471-2278

Demographics	2000	2010	2013
Population	267	282	
Median Age	21	27	
Avg. Household Size	5	82	
Median Household Income		\$45,179	
			Percent of Residents Employed 71.65%
			Denali Commission Distressed Community Yes
			Percent Alaska Native/American Indian (2010) 92.20%
			Low and Moderate Income (LMI) Percent (201x) 94%

Electric Utility	Generation Sources	Interties	PCE?
AVEC	Diesel	Yes	Yes

Landfill	Class	III	Permitted?	Yes	Location	3 mi south of airport
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Water/Wastewater System		Homes Served	System Volume
Water	Circ	302	N/A
Sewer	Gravity/Individual	Water/Wastewater Energy Audit?	
Notes		No	

Access	Road	No			
Air Access	Kalskag Airport, gravel, fair condition	Runway 1	3,198'x75'	Runway 2	N/A
	N/A	Runway 3	N/A	Runway 4	N/A
Dock/Port	Yes	Barge Access?	Yes	Ferry Service?	No

Notes

Alaska Native Name (definition)
N/A

Historical Setting / Cultural Resources
The site was originally used as a fish camp for families from Kalskag, two miles to the northeast. In 1930, people began to establish year-round homes. The Russian Orthodox residents of Upper Kalskag, a predominantly Roman Catholic village, moved to Lower Kalskag in the 1930s because of religious differences. The Russian Orthodox Chapel of St. Seraphim was built in 1940. A school was built in 1959, followed by a post office in 1962, a sawmill in 1965, and a power plant in 1969. A new church was built in the late 1970s.

Energy Profile: Lower Kalskag

Diesel Power System

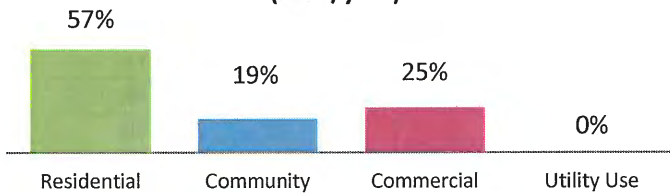
Utility	AVEC		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	None		
Unit 2			
Unit 3			
Unit 4			
Line Loss	N/A		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse			
RPSU Distribution			
Outage History/Known Issues			
Power from Upper Kalskag via intertie. Area subject to flooding.			

Operators	No. of Operators	Training/Certifications
	14	PPO, BFO, APPO, Itin BFO, BF Manager, BF Book

Maintenance Planning (RPSU)	N/A
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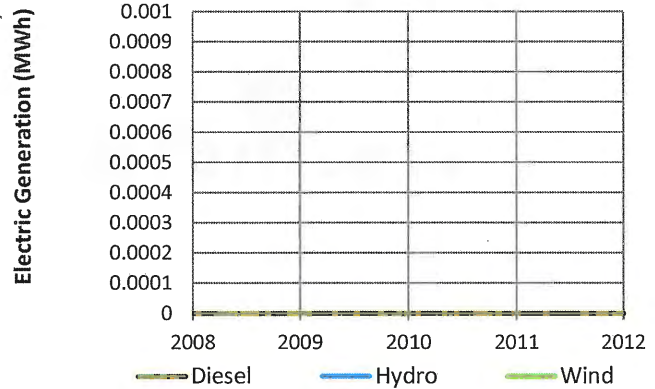
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	85	279,819	3,292
Community	7	91,210	13,030
Commercial	5	120,823	24,165
Utility Use	0		

**Electric Sales by Customer Type
(kWh/year)**



Power Production

Diesel (kWh/yr)	0	Avg. Load (kW)	56
Wind (kWh/yr)	0	Peak Load (kW)	124
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	N/A
Total (kWh/yr)	0	Diesel Used (gals/yr)	0



Electric Rates (\$/kWh)	Cost per kWh Sold (\$/kWh)		
Rate with PCE	\$0.20	Fuel Cost	N/A
Residential Rate	\$0.61	Non-fuel Cost	\$0.27
Commercial Rate		Total Cost	\$0.27

Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.02	\$6.25	6/13; 8/14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$10.97	8/14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Medium	None	
Biomass	Medium	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	None	
Energy Efficiency	High	1) Sanitation/Health Clinic EE, 2) EECBG	Both complete

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
City of L. Kalskag	Diesel	7,500	
Kuspuk SD	Diesel	21,000	Active
Mark Steer	Unknown	12,000	20+ yrs/abandon
Bulk Fuel Upgrade	Priority	Project	Status

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge			
By Air			
Cooperative Purchasing Agreements			
Notes			

Energy Profile: Lower Kalskag

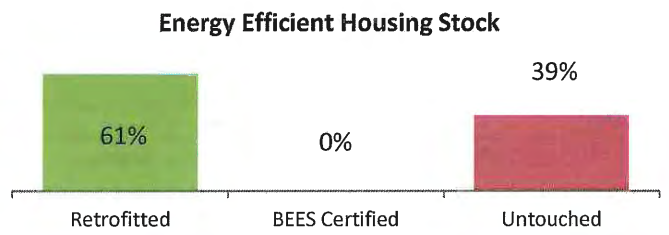
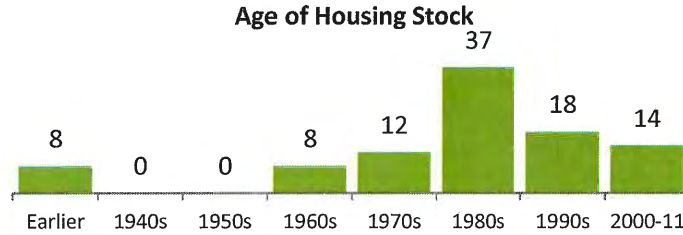
Housing Units	Occupied	Vacant	% Owner-Occup.
	74	18	69%

Housing Need	Overcrowded	1-star
	32.4%	3.1%

Data Quality	Medium
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Regional Housing Authority	Weatherization Service Provider		
AVCP	AVCP		

Energy Use	Average Home Energy Rating	Average Square Feet	Avg. EUI (kBtu/sf)
	N/A		



Lighting	Owner	Number/Type	Retrofitted?	Year	Notes
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Non-residential Building Inventory

Building Name or Location	Year Built	Square Feet	Audited?	Retrofits Done?	In ARIS?
Bingo Hall/Community Center/Offices					No
City office					No
Code Red Building					No
Community Building		1,375	Yes, AHFC-C	Some	No
Generator Shed			Yes		No
Joseph and Olinga Gregory School	2008	3,850	Yes, AHFC-C		No
Lower Kalskag Health Clinic	2000	1,030	Yes, AHFC-C	No	Yes
Lower Kalskag Tribal Office	1990	700	Yes	No	No
Lower Kalskag Water Treatment Plant	1982	1,512	Yes	No	Yes
Portable Unit #1					No
Portable Unit #2					No
Portable Unit #3					No
Post Office	2000	2,075			No
Shop/Bus Barn	1992	2,200	Yes		No
Tribal Office					No
Zackar Levi Elementary School	1982	7,743	Yes		Yes
ZLES Generator/Storage Building	1972	1,128			No
ZLES Portable Classroom	1982	1,680			No

Community Profile: Red Devil



Incorporation	Unincorporated in the Bethel Census Area		
Location	Part of the Interior Rivers Subregion. Red Devil is located on both banks of the Kuskokwim River, at the mouth of Red Devil Creek. It lies 75 air miles northeast of Aniak, 161 miles northeast of Bethel, and 250 miles west of Anchorage.		
Longitude	-157.3125	Latitude	61.7611
ANCSA Region	Calista Corporation		
Borough/CA	Bethel Census Area		
School District	Kuspuk School District		
AEA Region	Lower Yukon-Kuskokwim		

Alaska Native Name (definition)
N/A

Taxes Type (rate)		Per-Capita Revenue
N/A		N/A

Historical Setting / Cultural Resources

The village was named after the Red Devil Mine, established in 1921 by Hans Halverson when numerous mercury (quicksilver) deposits were discovered in the surrounding Kilbuck-Kuskokwim Mountains. By 1933, the mine was producing substantial quantities of mercury. Although the mine changed ownership twice over the years, it continued to operate until 1971. The mine produced some 2.7 million pounds of mercury during its operation. A post office was established in 1957, and a state school opened in 1958.

Economy
Subsistence activities are prevalent.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	90/-58	Continental	N/A

Natural Hazard Plan
Local Hazards Mitigation Plan, 2007

Community Plans	Year
N/A	N/A

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		907-243-2947	
Village of Red Devil		907-447-3223	907-447-3224

Demographics	2000	2010	2013
Population	48	23	Percent of Residents Employed 100.00%
Median Age	38	20	Denali Commission Distressed Community Yes
Avg. Household Size	3	2	Percent Alaska Native/American Indian (2010) 43.48%
Median Household Income		\$32,083	Low and Moderate Income (LMI) Percent (201x) N/A

Electric Utility	Generation Sources	Interties	PCE?
Middle Kuskokwim Electric Cooperative	Diesel	No	Yes

Landfill	Class	III	Permitted?	No	Location	Southwest of town
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Water/Wastewater System		Homes Served	System Volume
Water	N/A	N/A	N/A
Sewer	N/A	Water/Wastewater Energy Audit?	
Notes		No	

Access	Road	No
Air Access	Red Devil Airport, gravel, fair condition	Runway 1 4,820'x75'
	N/A	Runway 2 N/A
		Runway 3 N/A
		Runway 4 N/A
Dock/Port	No	Barge Access? Yes
		Ferry Service? No

Notes

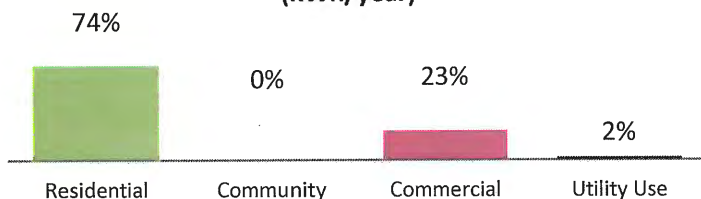
Energy Profile: Red Devil

Diesel Power System

Utility	Middle Kuskokwim Electric		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	Deutz	Poor/3,540	40
Unit 2	Deutz	Poor/1,045	50
Unit 3	Deutz	Poor/?	40
Unit 4			
Line Loss		24.8%	
Heat Recovery?		No	
Upgrades	Priority	Projects	Status
RPSU Powerhouse	High		
RPSU Distribution	Med.		
Outage History/Known Issues			
Gen. 3 broken, facility in "terrible shape", oil & diesel leaks			
Operators	No. of Operators	Training/Certifications	
	No Record		

Maintenance Planning (RPSU)	Unacceptable		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	15	61,778	4,119
Community	1	229	229
Commercial	5	19,469	3,894
Utility Use		1,797	

**Electric Sales by Customer Type
(kWh/year)**

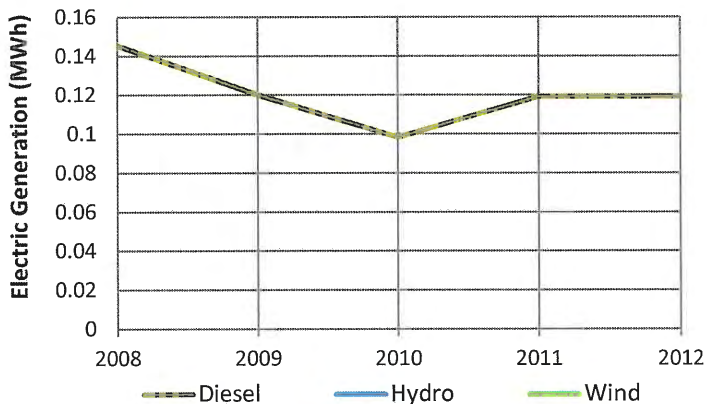


Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Low	None	
Biomass	High	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	None	
Energy Efficiency	High	None	

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
Utility	Diesel	50,000	
Bulk Fuel Upgrade			
Priority	Project	Status	

Power Production

Diesel (kWh/yr)	110,731	Avg. Load (kW)	14
Wind (kWh/yr)	0	Peak Load (kW)	31
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	9
Total (kWh/yr)	110,731	Diesel Used (gals/yr)	11,982



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.19	Fuel Cost	\$0.65
Residential Rate	\$0.80	Non-fuel Cost	\$1.00
Commercial Rate		Total Cost	\$1.66

Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.68		6-13
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)			
Wood (1 cord)			
Pellets			
Discounts?			

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge			
By Air			
Cooperative Purchasing Agreements			
Notes			

Community Profile: Sleetmute



Alaska Native Name (definition)

"Sleetmute," Whetstone People

Historical Setting / Cultural Resources

Sleetmute was founded by Ingalik Natives. The name means "whetstone people," referring to the slate deposits found nearby. The village has also been known as Sikmiut, Steelmute, and Steitmute. In the early 1830s, the Russians built a trading post at the Holitna River junction 1.5 miles away, but it was relocated farther downriver in 1841. Frederick Bishop started a trading post at Sleetmute in 1906. A school opened in 1921, followed by a post office in 1923. A Russian Orthodox church, the Saints Peter and Paul Mission, was constructed in 1931.

Incorporation Unincorporated in the Bethel Census Area

Location

Part of the Interior Rivers Subregion. Sleetmute is located on the east bank of the Kuskokwim River, 1.5 miles north of its junction with the Holitna River. It lies 79 miles east of Aniak, 166 miles northeast of Bethel, and 243 miles west of Anchorage.

Longitude -157.1697 **Latitude** 61.7025

ANCSA Region Calista Corporation

Borough/CA Bethel Census Area

School District Kuspuk School District

AEA Region Lower Yukon-Kuskokwim

Taxes Type (rate) **Per-Capita Revenue**
N/A N/A

Economy

Subsistence activities contribute substantially to local diets.

Climate **Avg. Temp.** **Climate Zone** **Heating Deg. Days**
90/-58 Continental 4,076

Natural Hazard Plan

Local Hazards Mitigation Plan, 2008

Community Plans **Year**
N/A N/A

Local Contacts	Email	Phone	Fax
The Kuskokwim Corporation		907-243-2948	
Village of Sleetmute	traditional.council@sleetmute.net	907-449-4263	907-449-4265

Demographics	2000	2010	2013
Population	100	86	Percent of Residents Employed 77.78%
Median Age	37	51	Denali Commission Distressed Community Yes
Avg. Household Size	4	3	Percent Alaska Native/American Indian (2010) 76.74%
Median Household Income		\$28,438	Low and Moderate Income (LMI) Percent (201x) N/A

Electric Utility	Generation Sources	Interties	PCE?
Middle Kuskokwim Electric Cooperative	Diesel	No	Yes

Landfill	Class	Permitted?	No	Location	1/4 mile east of runway
	III				

Water/Wastewater System	Homes Served	System Volume
Water Circ	82	N/A
Sewer Gravity	Water/Wastewater Energy Audit?	
Notes	Yes	

Access	Road	Air Access	Runway 1	Runway 2	Runway 3	Runway 4
	No	Sleetmute Airport, gravel, good condition	3,100'x60'	N/A	N/A	N/A
		N/A				
	No		Barge Access? Yes	Ferry Service? No		

Notes

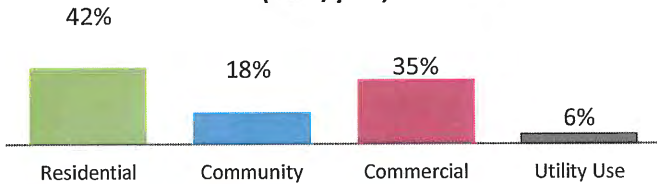
Energy Profile: Sleetmute

Diesel Power System

Utility	Middle Kuskokwim Electric		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	John Deere	Fair/2,518	110
Unit 2	John Deere	Fair/17,149	85
Unit 3	John Deere	Fair/21,485	64
Unit 4	John Deere	Fair/22,358	64
Line Loss	1.4%		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	Med.		
RPSU Distribution	Med.		
Outage History/Known Issues			
Flooding, Halon tanks burst, Operator inexperienced			
Operators	No. of Operators	Training/Certifications	
	1	BFO	

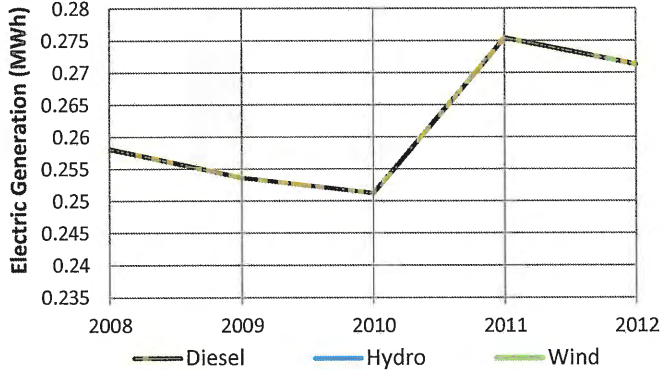
Maintenance Planning (RPSU)	Acceptable		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	34	108,638	3,195
Community	2	46,092	23,046
Commercial	14	91,257	6,518
Utility Use		14,912	

Electric Sales by Customer Type
(kWh/year)



Power Production

Diesel (kWh/yr)	264,498	Avg. Load (kW)	28
Wind (kWh/yr)	0	Peak Load (kW)	61
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	11
Total (kWh/yr)	264,498	Diesel Used (gals/yr)	24,293



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.19	Fuel Cost	\$0.44
Residential Rate	\$0.80	Non-fuel Cost	\$0.33
Commercial Rate		Total Cost	\$0.77
Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.68	\$6.75	6-13; 8-14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$327.86	8-14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy Potential	Projects	Status	
Hydroelectric	Low	None	
Wind Diesel	Low	None	
Biomass	High	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Medium	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	Heat Recovery to Water Plant	Operational
Energy Efficiency	High	Health Clinic Energy Efficiency	Complete

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
Hills	Heating Oil	20,000	Good
Hills	Gasoline	15,000	Good
Utility	Diesel	47,000	
Tribal Council		27,100	
Carney		25,000	
Store		37,500	
Bulk Fuel Upgrade	Priority	Project	Status

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge	2-3		
By Air	2-3		
Cooperative Purchasing Agreements			

Notes
Delivery by barge or air two-three times per year or as needed.

Community Profile: Stony River



Alaska Native Name (definition)

N/A

Historical Setting / Cultural Resources

Also known as Moose Village or Moose Creek, this community began as a trading post and riverboat landing to supply mining operations to the north. The first trading post opened in 1930, and a post office was established in 1935. Area Natives used these facilities, but it wasn't until the early 1960s that families established year-round residency and a school was constructed. Approximately 75 people lived in the village from the 1960s onward, although the population has declined somewhat in recent years.

Incorporation Unincorporated in the Bethel Census Area

Location

Part of the Interior Rivers Subregion. Stony River is located on the north bank of the Kuskokwim River, 2 miles north of its junction with the Stony River. The village is 100 miles east of Aniak, 185 miles northeast of Bethel, and 225 miles west of Anchorage.

Longitude -156.5881 **Latitude** 61.7831

ANCSA Region Calista Corporation

Borough/CA Bethel Census Area

School District Kuspuk School District

AEA Region Lower Yukon-Kuskokwim

Taxes Type (rate)

N/A

Per-Capita Revenue

N/A

Economy

Residents depend heavily on subsistence foods.

Climate

Avg. Temp.

90/-58

Climate Zone

Continental

Heating Deg. Days

N/A

Natural Hazard Plan

N/A

Community Plans

Native Village of Stony River Community Plan, 2006

Year

2006

Local Contacts

The Kuskokwim Corporation

Village of Stony River

Email

stony.river@yahoo.com

Phone

907-243-2949

907-537-3258

Fax

907-537-3254

Demographics

Population

2000

61

2010

54

Median Age

25

17

Avg. Household Size

4

3

Median Household Income

\$6,667

Percent of Residents Employed

92.00%

Denali Commission Distressed Community

Yes

Percent Alaska Native/American Indian (2010)

83.33%

Low and Moderate Income (LMI) Percent (201x)

N/A

Electric Utility

Middle Kuskokwim Electric Cooperative

Generation Sources

Diesel

Interties

No

PCE?

Yes

Landfill

Class

III

Permitted?

No

Location

Next to new landfill

Water/Wastewater System

Water

Washeteria

Sewer

N/A

Notes

Homes Served

N/A

System Volume

N/A

Water/Wastewater Energy Audit?

No

Access

Road

No

Air Access

Stony River 2 Airport, gravel-dirt, poor condition

Runway 1

2,601x40'

Runway 2

N/A

N/A

Runway 3

N/A

Runway 4

N/A

Dock/Port

No

Barge Access?

Yes

Ferry Service?

No

Notes

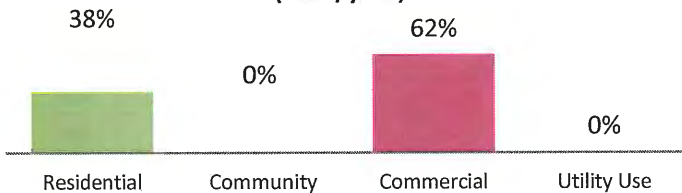
Energy Profile: Stony River

Diesel Power System

Utility	Middle Kuskokwim Electric		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	John Deere	Fair/26,079	64
Unit 2	John Deere	Fair/1,102	37
Unit 3	John Deere	Fair/11,731	37
Unit 4			
Line Loss	Meter failure; data not reported		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	Med.		
RPSU Distribution	High		
Outage History/Known Issues			
Gen. 1&2, fire suppr., switchgear, service meter non-functional.			
Operators	No. of Operators	Training/Certifications	
	No Record		

Maintenance Planning (RPSU)	Acceptable		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	18	41,137	2,285
Community	0	0	
Commercial	9	66,003	7,334
Utility Use		0	

**Electric Sales by Customer Type
(kWh/year)**

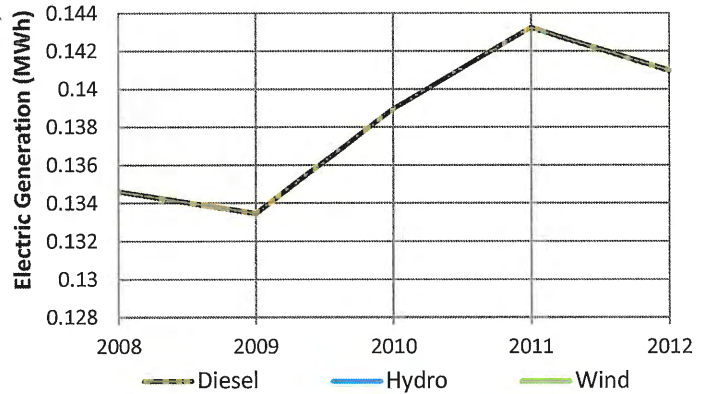


Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Low	None	
Biomass	High	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	None	
Energy Efficiency	High	None	

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
Utility	Diesel	21,000	
City	Diesel	6,000	
City	Diesel	12,000	
School Dist.	Diesel	20,000	
Bulk Fuel Upgrade	Priority	Project	Status

Power Production

Diesel (kWh/yr)	54,266	Avg. Load (kW)	13
Wind (kWh/yr)	0	Peak Load (kW)	30
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	3
Total (kWh/yr)	54,266	Diesel Used (gals/yr)	15,857



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.19	Fuel Cost	\$0.66
Residential Rate	\$0.80	Non-fuel Cost	\$0.76
Commercial Rate		Total Cost	\$1.42

Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.68	\$7.15	6-13; 8-14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)			
Wood (1 cord)			
Pellets			
Discounts?			

Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge			
By Air			
Cooperative Purchasing Agreements			

Notes
No DCRA data.

Community Profile: Upper Kalskag



Alaska Native Name (definition)

N/A

Historical Setting / Cultural Resources

In 1898, Nicholas Kameroff, Sr., Olinga Kameroff, and their eight children first settled the community. Around 1900, residents of "Kalthagamute" began to move to the village. In 1930 the BIA established a school. By 1932, residents of neighboring communities relocated to Kalskag. In 1940 Paul Kameroff, Sr., established a general store, post office, coffee shop, and barging company. At this time, the community owned a herd of 2,100 reindeer. During the 1930s, Russian Orthodox practitioners in the village relocated to establish Lower Kalskag, 3 miles to the southwest. The villagers who remained were primarily Roman Catholic practitioners.

Incorporation 2nd Class City, 1975

Location

Part of the Interior Rivers Subregion. Upper Kalskag (Kalskag) is located on the north bank of the Kuskokwim River, 2 miles upriver from Lower Kalskag. It lies 30 miles west of Aniak, 99 miles northeast of Bethel, and 348 miles west of Anchorage.

Longitude -160.3072 **Latitude** 61.5377

ANCSA Region Calista Corporation

Borough/CA Bethel Census Area

School District Kuspuk School District

AEA Region Lower Yukon-Kuskokwim

Taxes Type (rate)	Per-Capita Revenue
Sales, 0%	N/A

Economy

Today, subsistence activities are an important component of the lifestyle. The majority of residents rely upon subsistence activities, and salmon, moose, rabbit and waterfowl are important sources of food. The sale and importation of alcohol is banned.

Climate	Avg. Temp.	Climate Zone	Heating Deg. Days
	87/-55	Semi-arctic	10,731

Natural Hazard Plan

Upper Kalskag Hazard Mitigation Plan, 2013

Community Plans

	Year
N/A	N/A

Local Contacts

The Kuskokwim Corporation

Village of Kalskag

Email

rbmsroads@yahoo.com

City of Upper Kalskag

cityofkalskag@yahoo.com

Phone

(907) 243-2944

907-471-2207

907-471-2220

Fax

907-471-2399

907-471-2237

Demographics

	2000	2010
Population	230	210
Median Age	22	20
Avg. Household Size	4	4
Median Household Income		\$41,563

Percent of Residents Employed	84.22%
Denali Commission Distressed Community	Yes
Percent Alaska Native/American Indian (2010)	81.43%
Low and Moderate Income (LMI) Percent (201x)	81%

Electric Utility

City of Upper Kalskag; Morgan Fuel Service

Generation Sources

Gasoline, Heating Oil

Interties

No

PCE?

Yes

Landfill

Class III

Permitted?

Yes

Location

3 mi south of airport

Water/Wastewater System

Water N/A

Sewer N/A

Homes Served

N/A

System Volume

N/A

Water/Wastewater Energy Audit?

No

Access

Road No

Air Access Kalskag Airport, gravel, fair condition

Runway 1 3,198'x75' **Runway 2** N/A

Runway 3 N/A **Runway 4** N/A

Dock/Port Yes

Barge Access? Yes **Ferry Service?** No

Notes

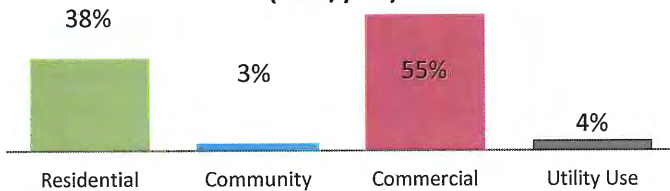
Energy Profile: Upper Kalskag

Diesel Power System

Utility	AVEC		
Engine	Make/Model	Condition/Hrs	Gen Capacity
Unit 1	Detroit Diesel	Fair/37,241	236
Unit 2	Detroit Diesel	Fair/30159	363
Unit 3	Cummins	Fair/2547	499
Unit 4			
Line Loss	39.3%		
Heat Recovery?	No		
Upgrades	Priority	Projects	Status
RPSU Powerhouse	High		
RPSU Distribution	Med.		
Outage History/Known Issues			
Intertie to L. Kalskag, regular outages; pipe leak; fire alarms.			
Operators	No. of Operators	Training/Certifications	
	2	BFO, Itin BFO	

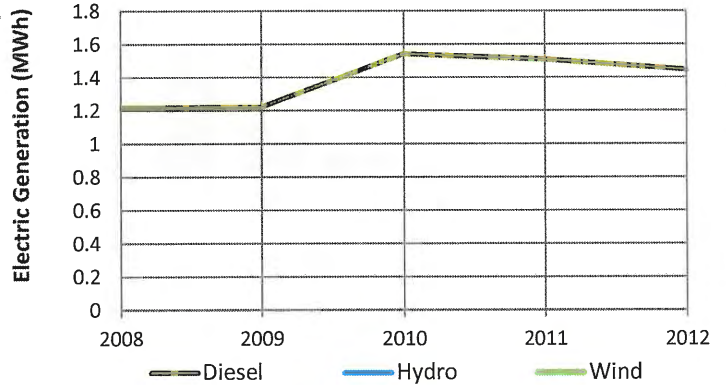
Maintenance Planning (RPSU)	Acceptable		
Electric Sales	No. of Customers	kWh/year	kWh/Customer
Residential	60	314,419	5,240
Community	11	25,736	2,340
Commercial	18	461,705	25,650
Utility Use		34,686	

Electric Sales by Customer Type (kWh/year)



Power Production

Diesel (kWh/yr)	1,378,387	Avg. Load (kW)	158
Wind (kWh/yr)	0	Peak Load (kW)	341
Hydro (kWh/yr)	0	Efficiency (kWh/gal)	13.47
Total (kWh/yr)	1,378,387	Diesel Used (gals/yr)	102,348



Electric Rates (\$/kWh)		Cost per kWh Sold (\$/kWh)	
Rate with PCE	\$0.20	Fuel Cost	\$0.52
Residential Rate	\$0.61	Non-fuel Cost	\$0.27
Commercial Rate		Total Cost	\$0.79
Fuel Prices (\$)	Utility/Wholesale	Retail	Month/Year
Diesel (1 gal)	\$4.02	\$6.25	6/13; 8/14
Other Fuel? (1 gal)			
Gasoline (1 gal)			
Propane (100#)		\$10.97	8/14
Wood (1 cord)			
Pellets			
Discounts?			

Alternative Energy	Potential	Projects	Status
Hydroelectric	Low	None	
Wind Diesel	Medium	None	
Biomass	Medium	None	
Solar	Medium	None	
Geothermal	Low	None	
Oil and Gas	Low	None	
Coal	Low	None	
Emerging Tech	Not Rated	None	
Heat Recovery	Low	None	
Energy Efficiency	High	VEEP	Complete

Bulk Fuel			
Tank Owner	Fuel Type(s)	Capacity	Age/Condition
City of U Kalskag	Diesel	49,000	Good
City of U Kalskag	Gasoline	37,000	Good
Morgan Fuel	Diesel	160,000	Good
Morgan Fuel	Gasoline	59,000	Good
Cons. Tank Farm	Diesel	Unknown	Active
Bulk Fuel Upgrade	Priority	Project	Status

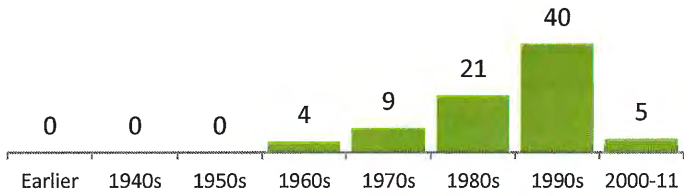
Purchasing	Deliveries/Year	Gallons/Delivery	Vendor(s)
By Barge	Spring/Fall; Aug or Sept		
By Air			
Cooperative Purchasing Agreements			
Notes			

Energy Profile: Upper Kalskag

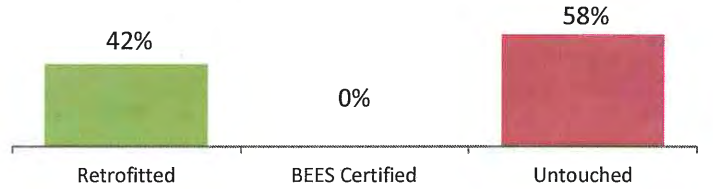
Housing Units	Occupied 59	Vacant 16	% Owner-Occup. 86%
Housing Need	Overcrowded 35.6%		1-star 25.7%
Data Quality	High		

Regional Housing Authority	AVCP		
Weatherization Service Provider	AVCP		
Energy Use	Average Home Energy Rating 2-star	Average Square Feet 996	Avg. EUI (kBtu/sf) 190

Age of Housing Stock



Energy Efficient Housing Stock



Lighting	Owner	Number/Type	Retrofitted?	Year	Notes
Street lights		20/HPS	Yes		Replaced with LED

Non-residential Building Inventory

Building Name or Location	Year Built	Square Feet	Audited?	Retrofits Done?	In ARIS?
City Office		960			Yes
Fire Station		720			Yes
Jail House		576			Yes
Townhall	1970	1,158	Yes, AHFC-C	No	Yes
Upper Kalskag Clinic	2005	2,335	Yes, AHFC-C	No	No
Upper Kalskag Lift Station	2000	30	Yes, Nortech	No	Yes
Upper Kalskag Tribal Office	1984	6,376	Yes, AHFC-C	No	No