



Chilkat Valley Energy Outlook



2023 Chilkat Valley Energy Outlook



An energy analysis of
our current usage and
future considerations.



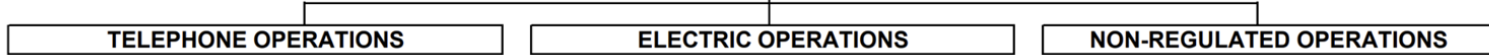
Where do we get
our energy?

- Inside Passage
Electric Cooperative
(IPEC)
- Alaska Power
Company (APC)
- Ap&T

Operational Chart

ORGANIZATIONAL CHART

ALASKA POWER & TELEPHONE COMPANY



Skagway, Tok, Craig, Hydaburg, Tanacross, Dot lake, Hollis, Healy Lake, Tetlin, Dry Creek, Naukati, Whale Pass, Edna Bay, Meyers Chuck, Chisana.

Alaska Telephone Company

Skagway, Tok, Craig, Tetlin, Hydaburg, Tanacross, Hollis, Bettles, Whale Pass, Eagle, Northway, Haines, Gustavus

Alaska Power Company

Dot Lake, Chistochina, Mentasta Lake, Healy Lake, Evansville, Coffman Cove, Naukati, Eagle Village, Northway Village

AP & T Wireless, Inc.

Wireless, Internet and other non-regulated services

Evansville, Jim River Camp, Allakaket, Alatna, Bettles,

Bettles Telephone, Inc.

Hydroelectric on Prince of Wales Island

BBL Hydro, Inc.

AP & T Long Distance, Inc.

Toll Reseller

Eagle, Eagle Village

North Country Telephone Inc.

Hydroelectric in the Uppder Lynn Canal (Skagway and Haines)

Goat Lake Hydro, Inc.

Power Breakdown

4MW

Goat Lake
hydropower
project

3MW

Kasidaya Creek
Hyropower project

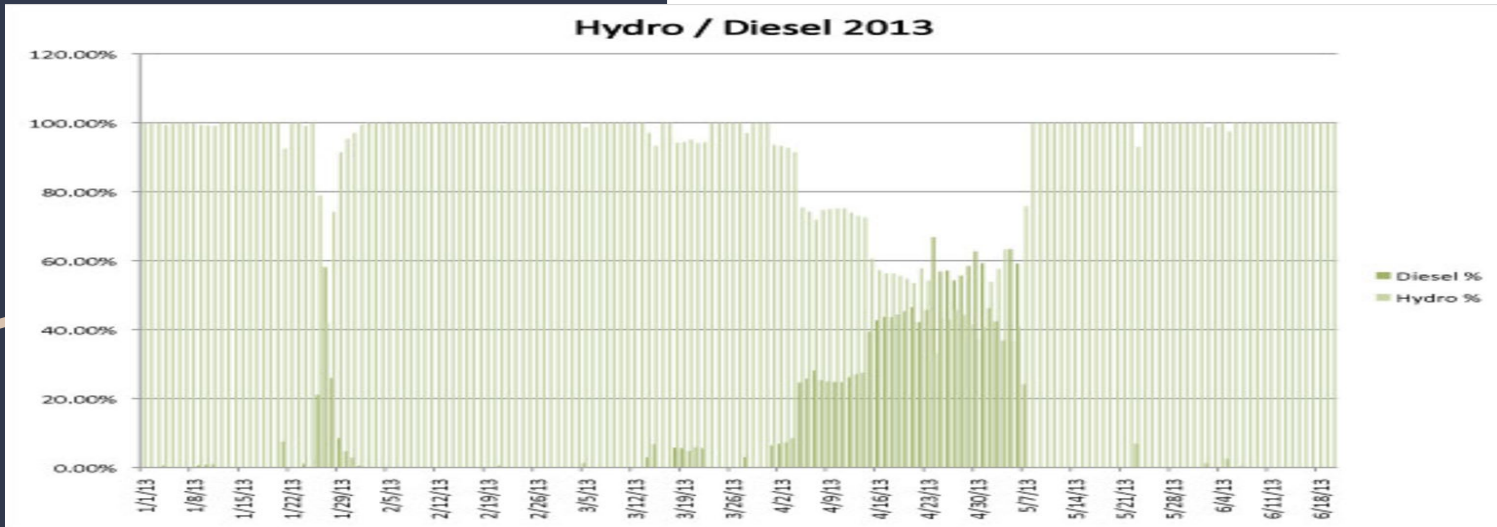
90%

Average
Hyropower

TRENDS

Summer vs. Winter

- Availability:
Higher in the summer and lower in the winter
- Consumption: Higher peaks in the winter and lower valleys in the summer.



Cost of electricity in the Chilkat Valley



223rd

51.05¢

AVERAGE RESIDENTIAL PRICE PER KWH IN THE CITY OF HAINES CDP

181st

\$190.83

AVERAGE RESIDENTIAL MONTHLY ELECTRICITY BILL FOR HAINES CDP RESIDENTS

National Average Residential rate: \$.16/ kilowatt hour

- Haines is \$.52/Kwh

National Average Bill \$137.36

- Haines is \$190.83

Cost of power in the Chilkat Valley

- **Heating Fuel:**
 - Haines \$5.17/gallon
 - AK: \$4.46/ gallon
 - National average: \$3.64/gallon
- **Propane**
 - 180,000-200,000 lbs of propane/year
 - Haines Cost: \$4.09/gallon average
 - National average: \$2.81/gallon
- **Gasoline:**
 - Haines average \$5.96/gallon
 - AK average: \$4.13/gallon
 - National average: \$3.37/gallon

Economic Implications

- Additional cost (reducing the purchasing power) of consumers.
- Effects profitability of businesses
- Barrier of entry to new businesses
- Diesel fuel= air pollutants and gases= total of 6,112,879.3 kilograms of CO2 emissions

Chilkat Valley Considerations

- Rural transportation of fuel increases end prices
- Supplying power to rural communities
 - Increased risk of business
 - Micro-grids
- Drafty homes
 - 54% of homes in the CV are considered drafty
- Utility revenues are tied to its sales. Less electricity sold= higher prices
 - EE (Energy Efficiency)
 - Rate decoupling

A future look:

Increased power
rates

- 9/23 APC files to adjust rates by 25%
- 15% interim rate approved 10/23
- **Revenue deficiency of \$3,655,594.00**

Questions?

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