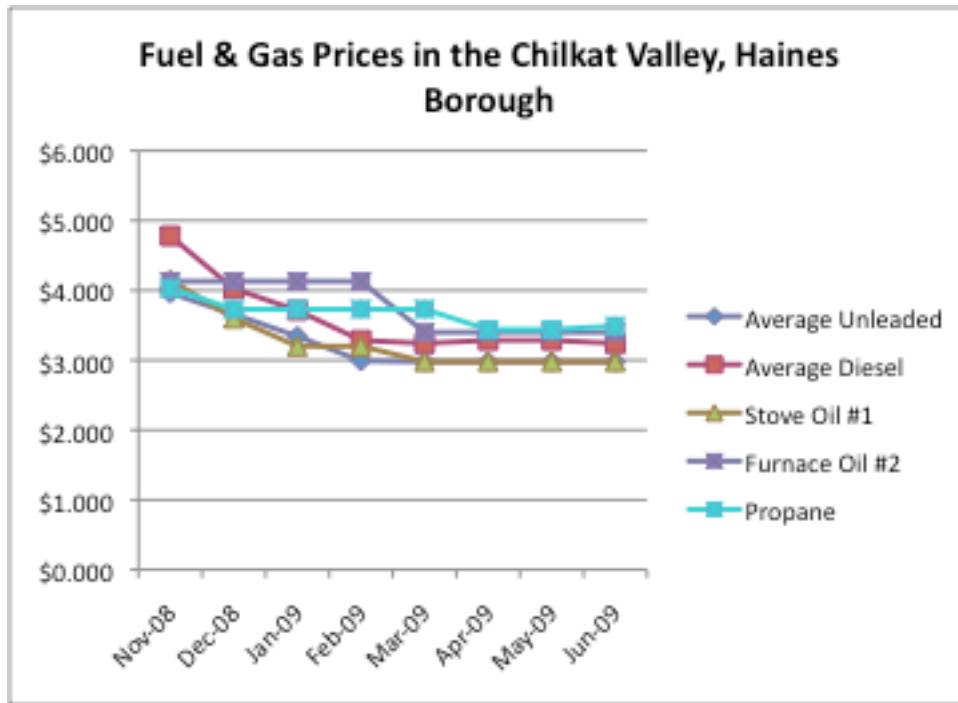




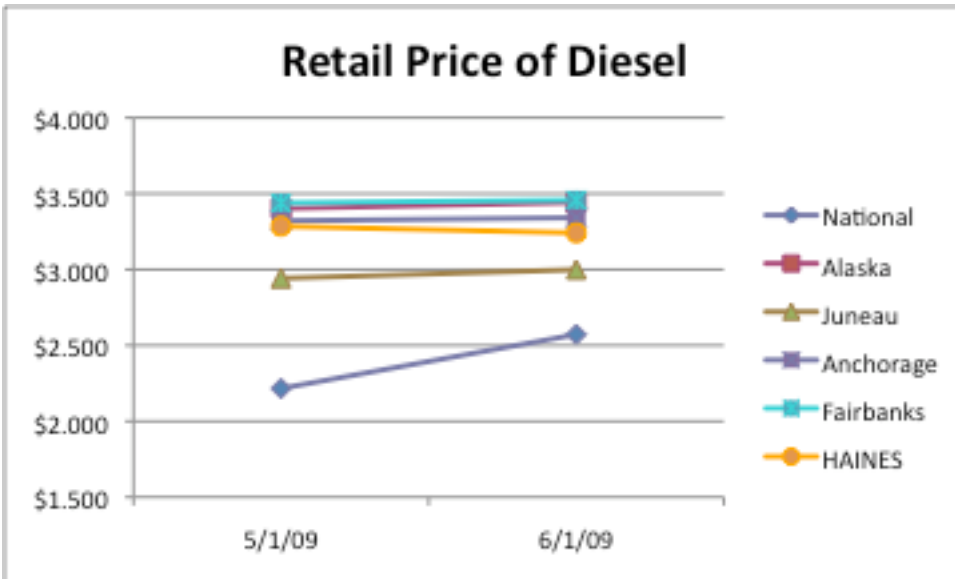
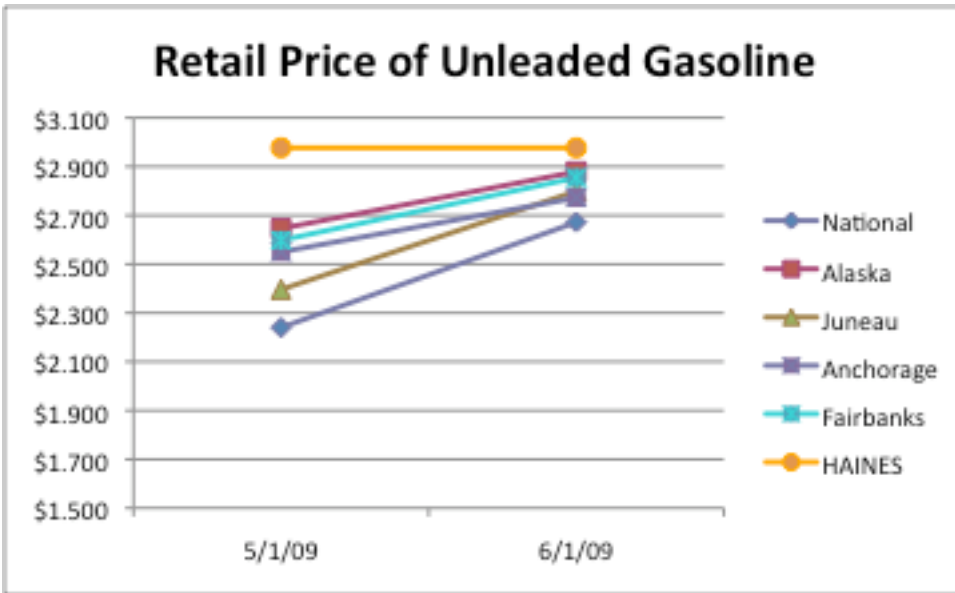
Haines Borough Energy & Sustainability Commission  
Stephanie Scott, Coordinator  
Coordinator Monthly Report  
June 2009

### Local Retail Energy Prices

The retail prices for diesel, stove oil, and furnace oil have varied very little in Haines February 2009 through June 15, 2009. Unleaded gasoline dropped to its present \$2.977/gallon average March 2009. Propane has gone up \$0.05/gallon, May to June, from \$3.44/gallon to \$3.49.



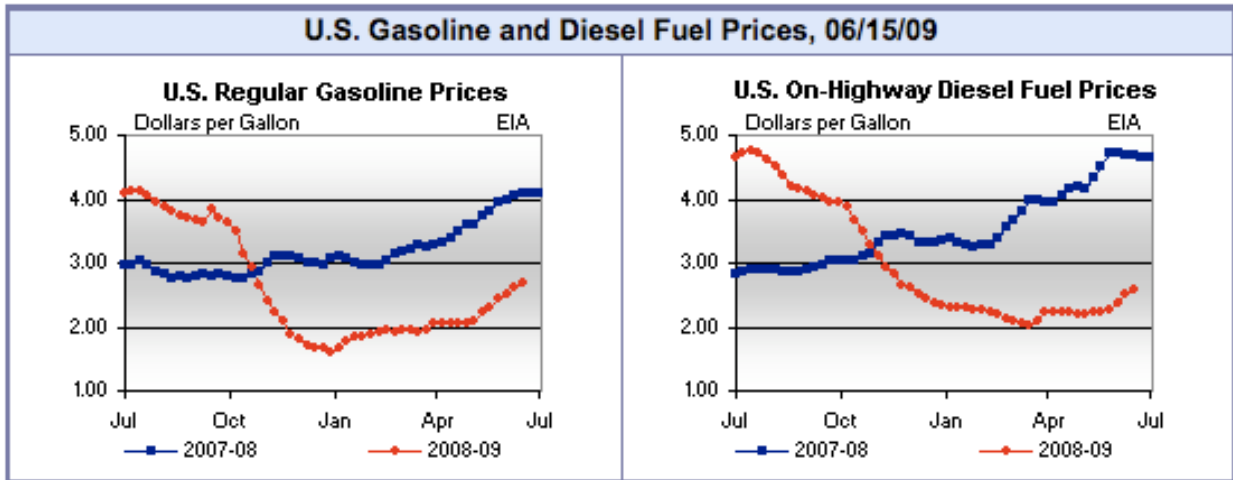
Prices in the rest of Alaska and in the lower 48 are rising and approaching the current local price structure for unleaded gasoline.



At this time, it is more economical to buy diesel fuel in Haines than in Anchorage or in Fairbanks.

Alaska transportation fuel prices are online at <http://www.fuelgaugereport.com/AKmetro.asp>.

**National Transportation Fuel and Heating Oil Trends.** A detailed account of national fuel transportation prices is at <http://tonto.eia.doe.gov/oog/info/gdu/gasdiesel.asp>. The following charts capture the two-year national trend, indicating that transportation prices are significantly lower than this time last year, but are trending up.



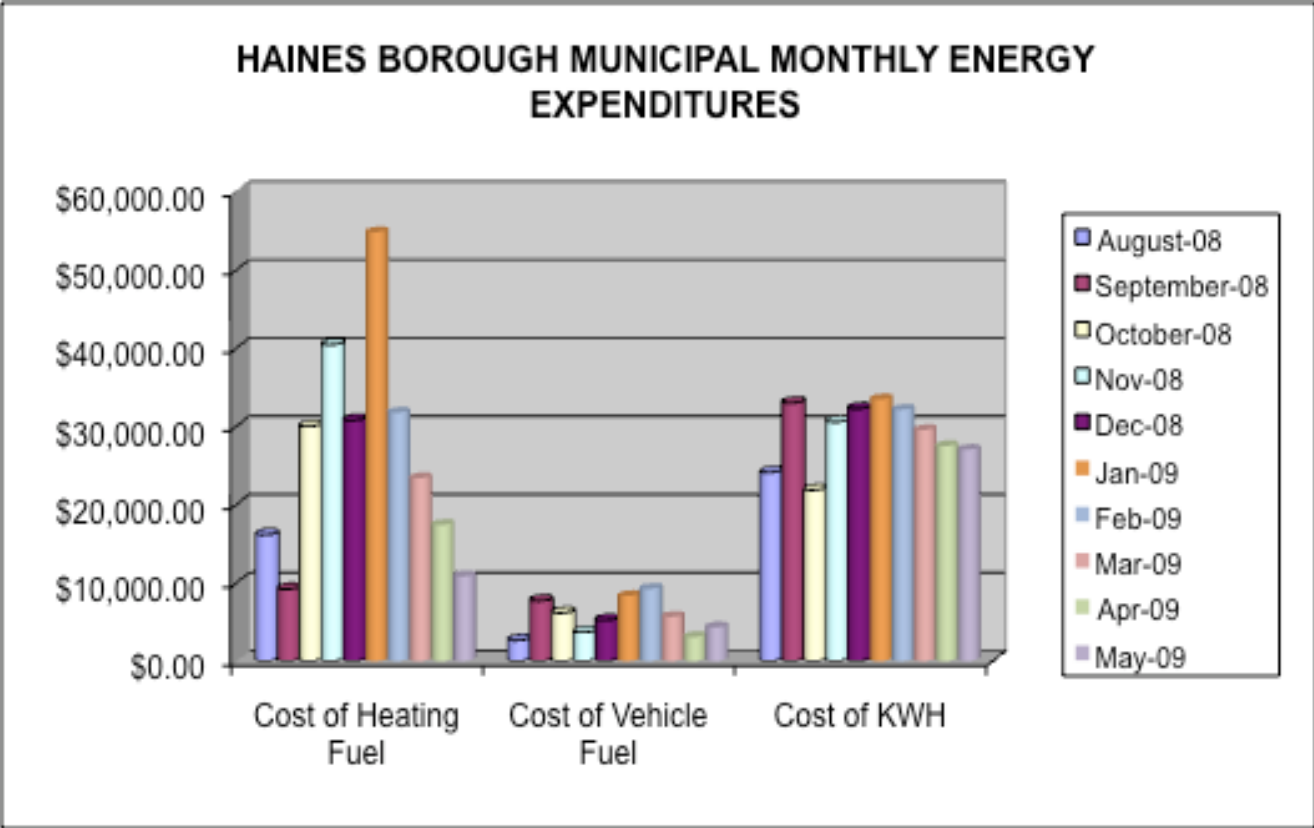
The US government will report heating oil and propane price trends starting in October 2009 through March 2010 (see <http://tonto.eia.doe.gov/oog/info/hopu/hopu.asp>). According to the Energy Information Administration's "Short-Term Energy Outlook," (<http://www.eia.doe.gov/emeu/steo/pub/contents.html>), the price of oil is rising:

*Spot prices for crude oil and petroleum products have increased over the past month. The price of West Texas Intermediate (WTI) crude oil is expected to average \$67 per barrel for the second half of 2009, an increase of about \$16 compared with the first half of the year.*

### **May 2009 Municipal Energy Bill**

The cost of energy consumed in the public sector in May 2009, was \$42,251.03. This figure will be reduced by some portion of the \$2,437.66 paid to AP&T for the 250-watt streetlights. Evidently, the digital meter newly installed inflated the KWH consumption of the 250-watt lights. The error was detected when the usage reported by AP&T (17,214 KWH) significantly exceeded consumption for the same period over the past 3 years. The Borough will be credited in the next billing cycle and the meter will be repaired.

Although there was a decrease in energy consumption, as expected given the season, the monetary decrease (\$5807.30) is not as dramatic as the decrease from March to April (\$10,590.71). Expenditure seems to be driven by a decrease in heating fuel oil consumption. However, there were some significant changes in KWH consumption within departments and facilities.



**Management & Safety.** On average over the past 5 months, the Administration Building reduces its KWH consumption 1.7% beneath its benchmark, but the Public Safety Building, the Old Public Works Shop, and the Radio Tower, regularly report KWH consumptions below benchmark, meeting or exceeding reduction targets.

**Ports & Harbors.** Harbor and port KWH consumption met or exceeded reduction targets over the past 5 months, but the Ice House coupled with the Transient Float, began to creep above its three-year average in March. Then this May, the ice house/transient float account soared to 68.4% over its benchmark. The benchmark for the ice house/transient float account is 2008 KWH consumption.

Christian Racich explained the power consumption spike in the following email June 16, 2009:

*We started it a couple of weeks early this year, in the first week of May. Usually it gets started later in the month, but this year there was a lot of demand early on, due to a early King Salmon fishery in Juneau. I think this may account for the spike.*

The icehouse brings in a little bit of revenue, but according to the Harbormaster, the revenue stream is unlikely to offset the costs of operation. Again, an email June 17 from Christian Racich, Haines Harbormaster:

*There is a revenue stream associated with the icehouse but it is just a trickle. We actually see very little usage of the ice house- maybe 5 or 6 boats a week right*

*now. We charge 70 bucks a ton, with most fishermen taking around a ton. This price is in line with other facilities around southeast. The house holds 25 tons when full. I don't believe we could ever charge what the ice actually costs us to produce. .... Most fishermen get ice from the markets they sell to, usually for free, when arranged in advance. The only fishermen who really need it are the ones selling fish off their boats at the dock. There are maybe 3 or 4 of these guys.*

**Community Buildings.** The Chilkat Center, the Library, and the Sheldon Museum all exceeded reduction targets this May: the Sheldon Museum for the 4<sup>th</sup> month in a row, the Library for the second month in a row, and the Chilkat Center for the first time. The Chilkat Center used 2320 KWH May 2009 – exactly what was consumed May 2006 and May 2007. Historically, May, June, and July seem to be low KWH consumption months for the Chilkat Center. Last May, the Chilkat Center used 2880 KWH. Recently, Borough staff rerouted the hot water for the Chilkat Center to be fed from the boiler and retired the electric hot water heater. Some of the reduced consumption can be attributed to this action.

The Visitor Center exceeded its 3-year average KWH consumption by 32.5% May 2009; it was 4.4% under its benchmark in April (but did not meet reduction target of 5-7%). It was 7.3% over in March, 4.3% over in February, and 6.7% over in January. The Coordinator has offered staff conservation and efficiency training to the Tourism Director.

**Water.** The water plant continues to operate under its 3-year KWH average but the excessive consumption at the Barnett Drive Pump station put the system 20.3% over KWH benchmark. According to Dennis Durr, leaks in consumer systems caused the Barnett Drive Pump station to use more power than normal. Consumers have been notified to repair leaks. If consumers do not repair the leaks, water service is turned off.

### **Emergency Conservation Plan**

Haines Borough Resolution 08-06-123, Section 4 (c), requires the Coordinator to “create an emergency conservation plan (20-30% reduction of consumption) to be implemented in a time of emergency as designated by the Assembly.” A three-page draft plan was delivered electronically to Borough staff and members of the HELP Committee June 16. The Haines Borough Emergency Operations Guide (EOG) contains a through set of procedures to be followed in the event of an energy shortage. The draft Emergency Energy Conservation Plan suggests appending a list of actions to *Section 4, page 26, Response Phase Checklist: Actions to be taken as soon as possible*. Actions are categorized as Saving Transportation Fuel in a Hurry, Saving Heating Fuel in a Hurry, and Saving Electricity in a Hurry. Once feedback is obtained from key emergency planners, the Plan will go before the Energy and Sustainability Commission for final review and transmission to the Haines Borough Assembly.

### **Upcoming Events**

**Alaska Craftsman Home Program classes**, June 27, June 28, will take place in the Assembly Chambers, beginning 8 AM Saturday. The classes are free to the public. The

schedule is:

	<b>Saturday</b>	<b>Sunday</b>
<b>8 AM</b>	Building Science Basics	Heating & Hot Water
<b>10 AM</b>	Air Tightness	Doors & Windows
<b>1 PM</b>	Ice Dams	Insulation
<b>3 PM</b>	Lighting & Appliances	Ventilation

**Ameresco, an energy services company (ESCO) will meet with the Energy & Sustainability Commission July 7, 6 PM, Borough Assembly Chambers** to discuss energy savings performance contracts. According to the Federal Energy Management Program, US Department of Energy, Energy Efficiency and Renewable Energy, <sup>1</sup>

*The ESCO conducts a comprehensive energy audit for the Federal facility and identifies improvements to save energy. In consultation with the Federal agency, the ESCO designs and constructs a project that meets the agency's needs and arranges the necessary financing. The ESCO guarantees that the improvements will generate energy cost savings sufficient to pay for the project over the term of the contract. After the contract ends, all additional cost savings accrue to the agency. Contract terms up to 25 years are allowed.*

In the **Alaska Energy Efficiency Program and Policy Recommendations**, <sup>2</sup> Final Report to Cold Climate Housing Research Center, June 12, 2008, Information Insights, Inc. Fairbanks, Alaska, ESCOs are found typically to do the following:

- Develop the design and arrange financing
- Install and maintain the energy efficiency equipment (for an agreed period)
- Measure, monitor and verify the project's energy savings
- Assume the risk that the project will save the amount guaranteed at the start of project

Although Ameresco is a national company, its Anchorage branch ([www.ameresco.com/](http://www.ameresco.com/)) is interested in developing projects in small communities and school districts in Alaska. Michael Bartlett, Account Executive, will be in Haines July 7 to describe his company's services and answer questions. He will also introduce the upper Chilkat Valley to the concept of ESCO's on the July 6 *Energy Talk* broadcast on KHNS, FM at 8:45 July 6.

A series of 24 publications offered by Ameresco are posted at <http://www.hnsboroesc.outlierproductions.com/july7.html>. Mr. Bartlett highly recommends five of the 24 publications. These are indicated by bold red lettering. I have included one of five as an attachment to this report: the four-page, Corporate Overview.

**Year-End Report and Recommendations from the Haines Borough Energy & Sustainability Commission.** The Commission is preparing a final report and set of

<sup>1</sup> <http://www1.eere.energy.gov/femp/financing/espcs.html>

<sup>2</sup> [http://209.85.173.132/search?q=cache:Am8Z8qdaVlkJ:aidea.org/aea/PDF%2520files/6-12-2008\\_AKEnergyEfficiencyProgram%26PolicyRecommendations.pdf+State+of+Alaska+ESCO+contracts&cd=2&hl=en&ct=clnk&gl=us&client=firefox-a](http://209.85.173.132/search?q=cache:Am8Z8qdaVlkJ:aidea.org/aea/PDF%2520files/6-12-2008_AKEnergyEfficiencyProgram%26PolicyRecommendations.pdf+State+of+Alaska+ESCO+contracts&cd=2&hl=en&ct=clnk&gl=us&client=firefox-a)

recommendations for the Assembly. The Commission was designated as an “ad hoc” entity. The Commission met for the first time September 2, 2008. The Coordinator was hired August 25. The Coordinator position is authorized for one-year.

Attachments:

Ameresco Corporate Overview

May Municipal and School District Energy Bill and Charts