

COMMERCIAL CUSTOMER News

FROM CHUGACH ELECTRIC

issue 5 • volume 1 • April 2012

Free HVAC workshop for commercial building operators

Chugach Electric and Green Star, Inc. invite you to an informational workshop exploring best practices in heating, ventilation and air conditioning systems for commercial buildings. According to a study by the U.S. Energy Information Administration, heating, ventilation and air conditioning accounts for 40-60 percent of the energy used in commercial and institutional buildings.

Alaska Sea Life Center along with Control Contractors Inc. will provide a workshop on retrofits, control options, technology and best practices to help control energy costs and consumption of HVAC systems.

- Learn fundamentals of your HVAC system
- Gain ideas to improve your existing systems

- Monitor your energy-saving strategies and upgrades
 - Hear about Alaska SeaLife Center's seawater heat pump
- Where** Crowne Plaza Hotel, 109 W. International Airport Road, Anchorage (Borealis Room)
- When** Monday, April 23, 2012 11AM-2PM
- Who** Commercial building owners, operators and facility staff. Space is limited.

RSVP to info@greenstarinc.org or 278-7827

Complimentary coffee, beverages, and lunch included.
SPACE IS LIMITED.

Speakers:
Hank Kiefert, General Manager of CCI Automated Technologies, will discuss

the fundamentals of Heating, Cooling and Air Conditioning.

Brian Miller, Chief Technology Office at CCI Automated Technologies, will share information about creating efficiencies using controls and new technologies.

Tara Riemer Jones, PhD., Chief Operating Officer at Alaska SeaLife Center, will describe the Center's experiences with its new seawater heat pump system.

Brought to you by:



Annual meeting and election notes

Two directors will be elected to the Chugach board in the 2012 election. In addition, there are four proposed Bylaw amendments on the ballot.

April 5th is the record date for this year's election. The record date establishes the members eligibility to vote.

Voting packets will be mailed to Chugach members of record the week of April 16. These packets will include all the information necessary to cast your vote by mail, secure drop box, electronically or in-person at the annual meeting.

Mail and secure drop box ballots must be received by noon, Monday May 14 and electronic voting will close at noon, Thursday, May 17th.

This year, receive a one-time \$5.00 credit on your monthly bill when you vote electronically and sign up to receive future election materials electronically.

Information about the candidates and proposed bylaw changes will be in the election booklet, on the electronic voting site and on Chugach's website www.chugachelectric.com.

A candidate forum will be held from 4-6 p.m., April 26th at Chugach's headquarters, 5601 Electron Drive.

The annual meeting will be held at the Dena'ina Civic & Convention Center at 600 W. 7th Avenue, Thursday, May 17th. Registration starts at 6 p.m. The meeting begins at 7 p.m. Photo I.D. is required to vote at the annual meeting.

**One-time
\$5.00
Credit**

Legislative agenda backs local, regional & renewable projects

The second half of the 27th Legislature is underway. Chugach's legislative agenda this year seeks support for local and regional capital projects, regional planning, and continuation of funding for renewable energy.

Chugach submitted three capital project requests for consideration this year. In addition, it joined with other Railbelt utilities to create and support the request for capital funding for regional energy projects and studies. Chugach also supports the reauthorization of the Renewable Energy Grant Fund.

Chugach proposes the grants for its three projects flow through the Alaska Energy Authority (AEA).

Chugach capital projects

The Stetson Creek Diversion
Estimated cost: \$24,228,440
Requested funding: \$11,650,440

When Chugach received a new operating license in 2007 for its Cooper Lake hydroelectric project it contained a condition requiring Chugach to divert the cold water of Stetson Creek into Cooper Lake, then release water from the reservoir into Cooper Creek to try to improve the habitat for certain species of fish. It was originally estimated to be a \$12 million project. The final cost of this project could total \$24 million. Chugach is seeking assistance with the incremental cost.

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CHUGACH
POWERING ALASKA'S FUTURE

Alaska Energy Authority releases draft End-Use Study data

Foodservice, Healthcare facilities top the list for non-residential energy intensity

A recent study commissioned by Alaska Energy Authority (AEA) offers new data on how Alaskans use energy state-wide. The 2012 Alaska Energy End-Use Study was conducted by WH Pacific and several research partners. Chugach and the U.S. Department of Energy contributed to the study.

The report includes analyses of existing datasets from Alaska Housing Finance Corporation and the Municipality of Anchorage, for both residential and non-residential building types. New data was also collected through on-site and phone surveys to supplement the existing data using a stratified random sample. The study also provides end-use data on non-building categories such as street lighting and water/

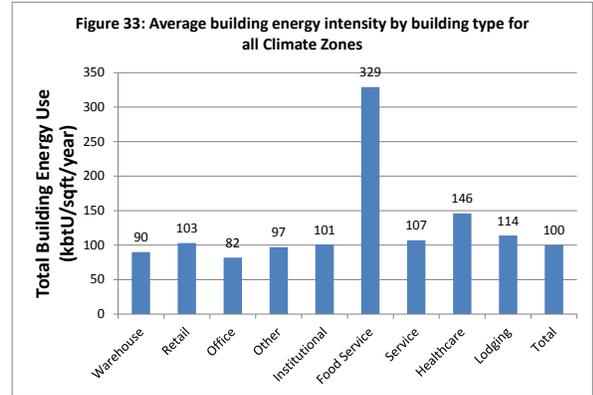
waste water.

Non-residential data highlights include:

- Food service facilities have more energy intensity (the amount of energy used per square foot) than any other type of building in most Climate Zones.
- Healthcare facilities have the second highest energy intensity, about one half that of food service buildings.
- Heating accounts for just over 50 percent of total building energy used.
- Primary cooking is the second highest energy use (total energy consumed in a given period of time) for all fuel types, at 26 percent.
- Lighting uses the largest proportion of energy (28 percent) in non-residential buildings in all three Climate Zones.
- Lighting has the highest energy intensity of non-residential end use, at

36 percent of all kBtUs.

- Laundry services in healthcare facilities are a major use of energy.
- Lighting is the highest use of energy in retail buildings, using over half of all of the energy consumed in MMBTUs.
- While total non-residential energy use is higher in more northerly Climate Zones, it appears to be lower when energy intensity is measured.



The full report is 151 pages and is complete with more graphs and raw data is available at www.akenergyauthority.org/endusestudy.html.

Legislative, cont'd from page 1

Hope Substation automation

Estimated cost: \$983,000

Requested funding: \$787,000

Hope and sunrise customers are served from a substation at Mile 56 of the Seward Highway fed from Chugach's 115-kilovolt transmission line. When the transmission line loses power due to a problem, so do customers in Sunrise and Hope. Circuit switchers located on either side of the substation allow Chugach operations personnel to sectionalize the 115-kv line in the event of a transmission line problem or planned maintenance. Currently the switches can only be operated manually. Automating the circuit switchers would allow dispatchers in Chugach's Anchorage power control center to remotely open and close the circuit switchers, cutting outage time and reducing the risk of hours of driving during often-bad weather.

Relocate a portion of the Hope distribution line

Estimated cost: \$415,000

Requested funding: \$310,000

Customers in the communities of Sunrise and Hope receive electric service from Chugach from a 17.7-mile distribution line. The line has been battered over time by falling trees and heavy icing. The requested state grant funds for this project will allow the relocation of about 1.6 miles of line nearer the highway to improve reliability and outage restoration time.

ARCTEC grant requests

ARCTEC (the Alaska Railbelt Cooperative Transmission & Electric Company) is a generation and transmission cooperative. It was formed by Railbelt electric utilities (including Chugach) in December 2010 to provide a means to work together on projects beneficial to the regional grid.

Here are ARCTEC's requests for the FY2013 budget.

Cook Inlet Gas Assurance Plan

\$8 million

ARCTEC recommends that the state

endorse an engineering and permitting study to evaluate a short-term LNG import option that leverages existing facilities in Cook Inlet and allows for minimal investment to import LNG.

Improve the transmission backbone

\$5.5 million for two projects

- Remove Bradley Lake transmission constraints (\$2 million)

ARCTEC recommends that the state fund an overall plan to unconstrain the Bradley Lake-to-Anchorage transmission segment consistent with AEA's recent plan update. ARCTEC is requesting routing, engineering and permitting efforts in FY2013.

- Increase energy transfers between Anchorage and Fairbanks (\$3.5 million)

Converting the existing 138-kilovolt transmission link to 230-kv will allow greater power flows between Southcentral and the Interior. The requested funding will support routing studies, preliminary engineering, permitting, right of way and environmental work.

Bradley Lake Hydroelectric Project Enhancements

\$15 million

Diverting Battle Creek into the existing Bradley project reservoir will boost the energy output of the project by 10 percent. ARCTEC is requesting funding for AEA for the project. Railbelt utilities have agreed to fund half of the cost of the project through bonds per the Bradley Lake model.

Extension of the Renewable Energy Grant Fund

House Bill 250 would extend the Renewable Energy Grant Fund for another 5 years, restating legislative intent that it be funded at \$50 million per year. The program, established by the legislature in 2008, is currently set to expire in 2013. The program is administered by AEA, and has issued grants for renewable energy projects across the state. Chugach supports HB 250 and the extension of the Renewable Energy Grant Fund.