

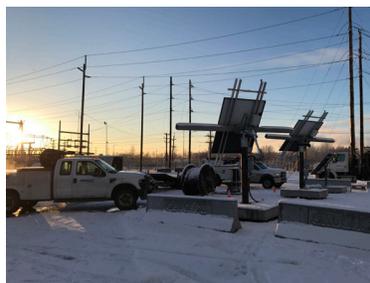


Chugach tests solar panels

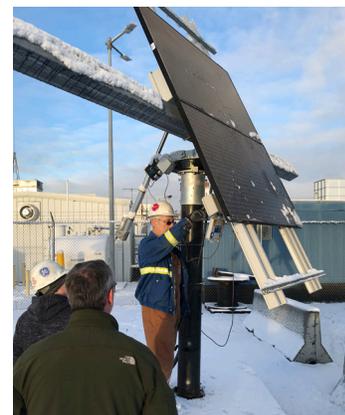
Chugach has established a solar test facility to test the cost effectiveness and generation effectiveness of different solar panel types, and tracking versus non-tracking mounting systems.

The test site consists of three arrays, one fixed angle and facing due south; one with the same fixed angle but with a single vertical-axis tracker that follows the sun; and one with a dual-axis tracker that can face nearly any direction above the horizon and will track the sun or the brightest spot in the sky. Two different types of panels are being tested. Each array contains one of each panel type.

The system is being programmed and commissioned in December and data collection is expected to start in January. The data from the system will both help inform Chugach of the optimal system design as



Chugach and ACEP staff conducted a site visit in late November at the solar test facility on the Chugach campus. Right: The dual-axis tracking array is adjusted



well as help inform the public about the merits and challenges of solar in each of these configurations. The Alaska Center for Energy and Power (ACEP) is partnering with Chugach to establish the testing protocol and to analyze the data.

How do crews get assigned to outages?

While Chugach monitors its power system 24/7, we don't have crews on standby for outages 24/7. That enables us to keep costs down and electricity more affordable for our members.

Chugach is notified of outages via our Metering/Supervisory Control and Data Acquisition system, commonly referred to as SCADA, which is in operation 24/7, and we typically are made aware of outages within minutes of them occurring. Once Dispatch is aware of an outage, the response begins.

The first thing the dispatcher does is assess the outage, determine its size, location, and sometimes a probable cause. Generally, however, cause is not ascertainable until the crew gets to the site. The dispatcher then decides the appropriate crew size and initiates the call out. Chugach maintains a list of qualified personnel to respond to outages and, once the call out is complete, it takes time for the personnel to report to work, get the tools

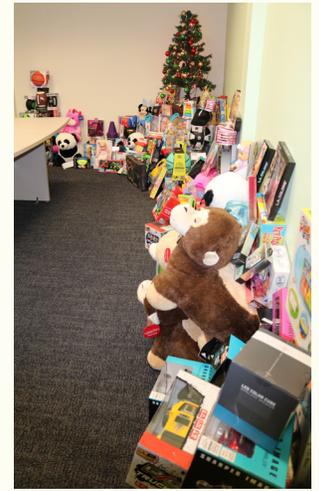
and materials required, and head to the outage. Travel time can be impacted by weather and road conditions. Once the crew reaches the site, linemen will assess the outage, determine whether they need additional assets (people, equipment, materials) to complete the repairs.

During an outage response, it is common for additional outages to occur, especially during bad weather. Depending on the location and type of outage, this may be added to the work of the crew already in the field, or additional crews are called in. Unfortunately, it is not possible to dispatch personnel to each individual outage the moment they occur. The process of calling in and assembling crews for outage response after hours can take several hours alone.

Chugach's goal is to restore power as quickly and safely as possible. We want the power back on just as much as our members do!

Chugach employees give generously

Dozens of Anchorage children and families will have a brighter holiday season, thanks to the generosity of Chugach Electric employees. Dozens of toys were donated, along with gift cards in support of the Salvation Army's Angel Tree program. We are pleased to help Anchorage families have a happy holiday season. {1115770}



Chugach donates hundreds of turkeys to local charities

For the 17th year, Chugach donated turkeys to local non-profits to help fill the need for holiday meals and food baskets throughout the local area. A total of 450 turkeys were donated to ten local charities.

"We are fortunate to live in a prosperous and generous community," said Chugach CEO Lee Thibert. "But we know there are those who could use a little extra help through the holidays, and Chugach is very pleased to be able to continue this holiday tradition."



Annual Meeting and election notes

Chugach's annual membership meeting will be held on Tuesday, May 21, 2019 at the Dena'ina Civic & Convention Center.

Nominations open for two board seats

Two candidates will be elected to the Chugach Board of Directors in the election. Both are 4-year terms. Members who are interested in being considered by the Nominating Committee, or running by petition, should call (907) 762-4791 to obtain a candidate packet. Candidate applications and resumes for the Nominating Committee's review must be received by 5 p.m. Tuesday, Feb. 5, 2019.

Members may submit proposed bylaw changes for consideration by the Bylaws Committee until 5 p.m. on Thursday, Jan. 17, 2019.

Bylaw proposals or candidate nominations should be submitted to: Tom Schulman, PO Box 196300, Anchorage, AK 99519-6300 or tom_schulman@chugachelectric.com.

More information and forms may be found at www.chugachelectric.com/media/annual-meeting or by calling (907) 762-4177.



New year, new you!
Set achievable resolutions that you'll stick with, such as changing out all of your inefficient light bulbs with LEDs!



The Outlet

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5601 Electron Drive · P.O. Box 196300
Anchorage, Alaska 99519-6300
(907) 563-7494 or Toll free (800) 478-7494
www.chugachelectric.com

Member number hide-n-seek

Find your member number (in brackets) in the Outlet and get a \$100 credit on your electric bill. Call Chugach's service center at 563-7366 to claim your prize.

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