Alaska Energy Authority Status Update

Devany Plentovich Program Manager

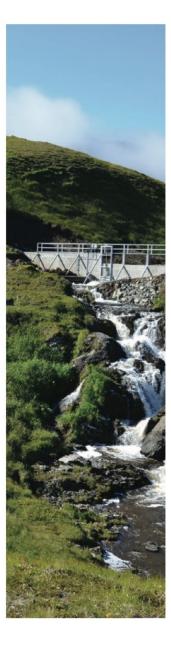
Western State Wood Energy Teams Annual Meeting

November 14, 2017







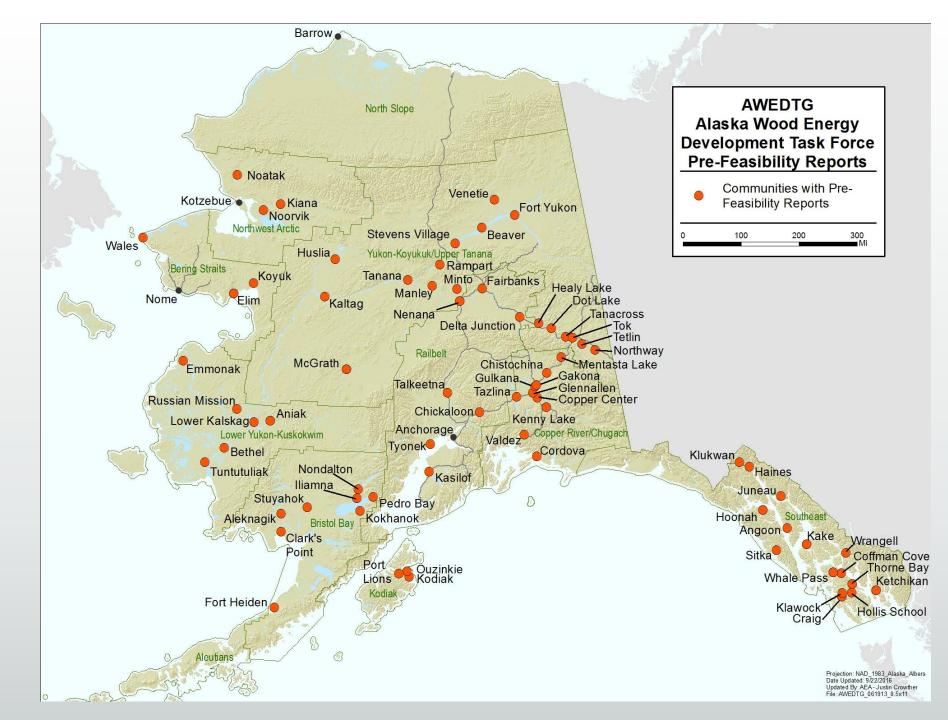




Alaska Wood Energy Development Task Group

- Partnership of 20 State, Federal, Tribal, NGO
- Funded by US Forest Service and State of Alaska
- Provides 5 part-time jobs
 - University of Alaska Fairbanks (1)
 - Southeast Conference (2)
 - AEA (2)
- Provides outreach and education to Alaska's communities
 - Technical Support provided to 35 communities
 - 20+ Site visits
 - 12+ Presentations/events



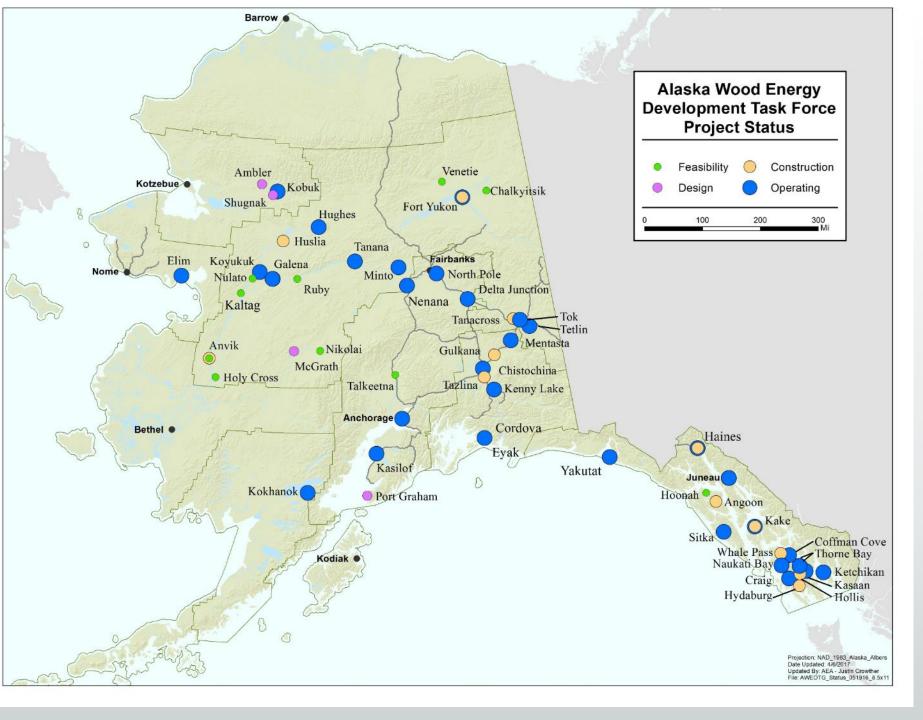


3 prefeasibility studies covering 7 different schools completed in 2017

Fairbanks (4)

- Klukwan
- Aniak
- Kalskag

160 prefeasibility studies completed since 2005



39 Ooperational Systems

Wood Innovations

- 2 Design projects
 - Haines
 - Hydaburg

State of Alaska

- I Feasibility
- 1 Design
- 8 Design/ Construction

4

```
USDA
```

Minto is Operational



- Heating the Lodge and Health Clinic 11,000 gallons of fuel oil
- Energy Efficiency Improvements
- \$303,600

• 100 Cords of wood annually



5

Galena Biomass is Operational

- The only remote, isolated chip system IN THE WORLD
- \$3.2 MM grant from AEA for the biomass system.

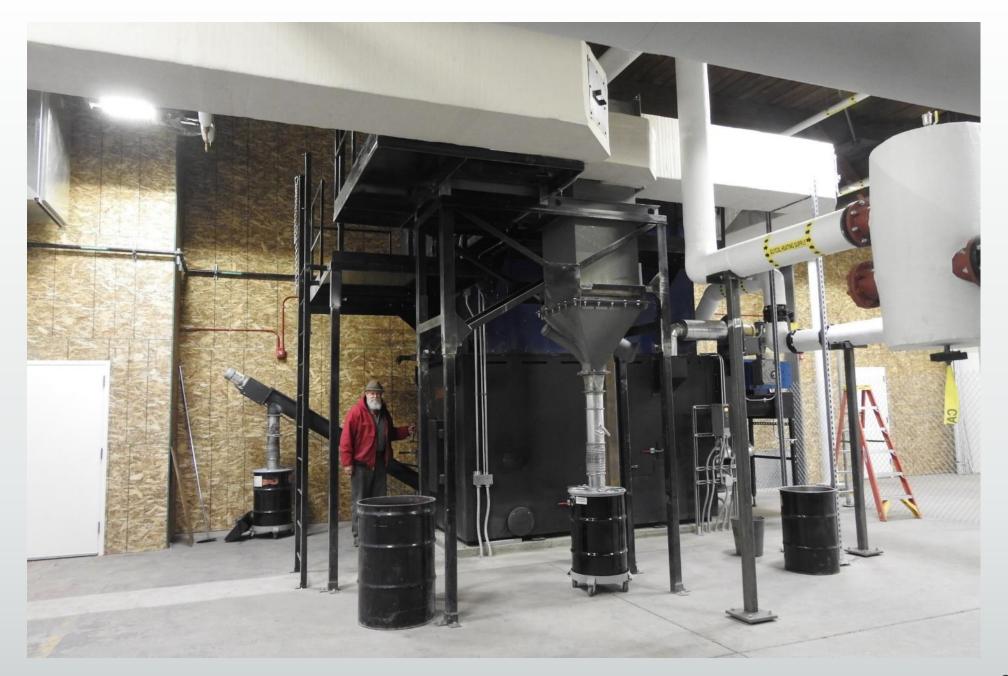


- Loans to replace the water, sewer, and fire piping. (\$4MM total)
- Displacing 220,000+ gallons of heating fuel annually in 14 buildings.
- Sustainable Energy Galena Alaska (SEGA) is the wood processor. ~1000 TPY
 - Collaboration of City of Galena, Galena Interior Learning Academy, and the Louden Tribal Council
 - 6 seasonal jobs with a payroll of \$175,000 annually
- 2 Full-time boiler operator jobs (existing) VERY happy the steam system is gone!



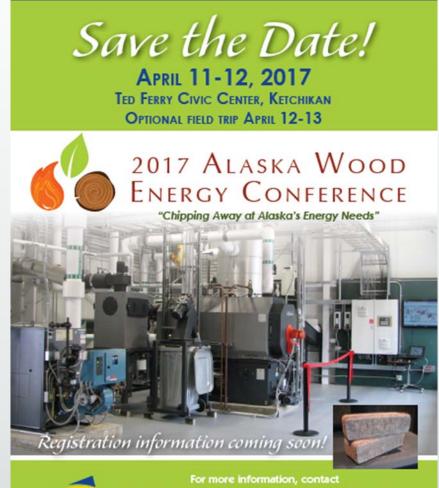






2016 – 2017 Other Accomplishments

- Alaska Wood Energy Conference
 - Ketchikan, April 11 13
 - 125+ attendees
 - John Sigenthaler Hydronics Workshop
 - Ketchikan and POW Tours
- Biomass Fueled Greenhouse Handbook
- Small scale CHP demonstration project funded through AEA and USFS
- Community Biomass Handbook Volume 3 How Wood Energy is Revitalizing Rural Alaska
- Case Studies
- Quarterly Conference Calls



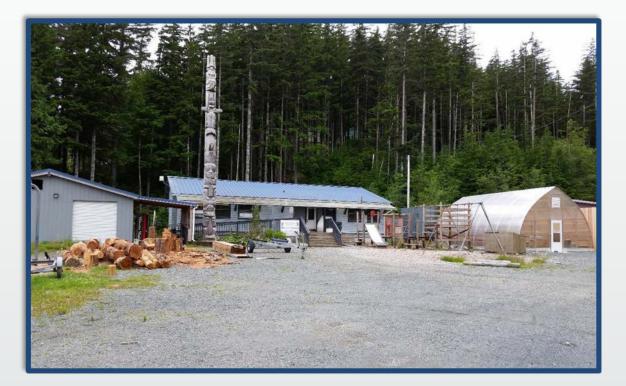


For more information, contact Meg Burgett at 907-746-9472, asburgett@alaska.edu or Karen Petersen at 907-821-2681, khpetersen@alaska.edu www.uaf.edu/ces • 1-877-520-5211 UAF is an AA/EO employer and educational institution.



2018 Goals

- Successful start-up of 6 construction projects
- Biomass Greenhouse Peer Network
- Fairbanks Pellet Demonstration
 Project development
- Decision Maker Tour
- Biomass Operator Training
- Alaska State Wood Energy Team Website



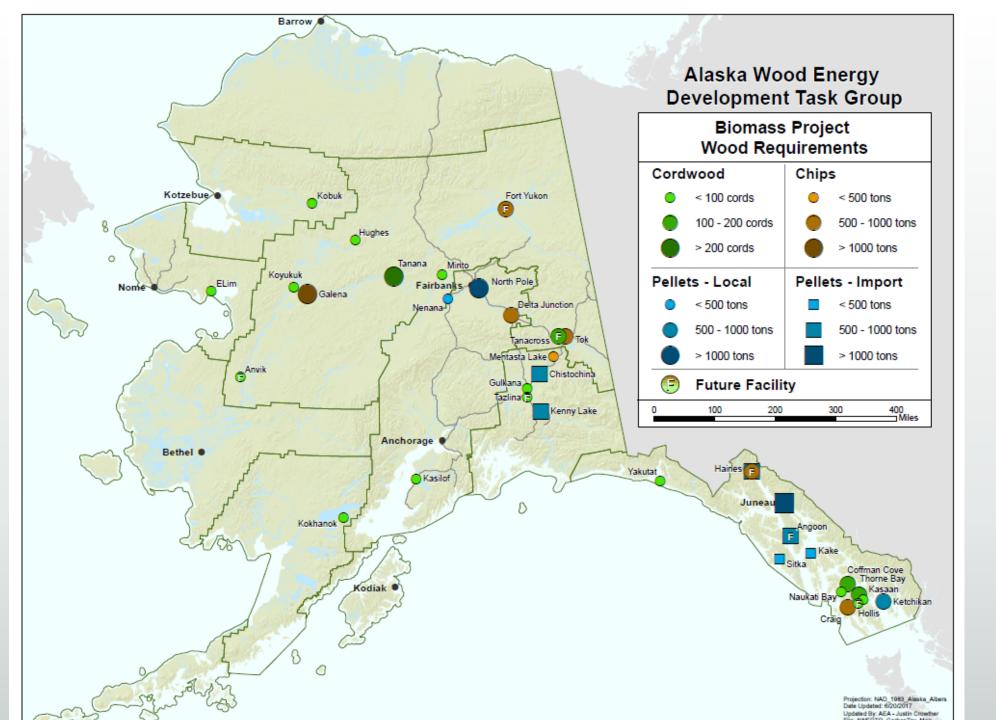




Alaska Energy Authority

Thank you!





Alaska Stats

 39 system operational

