

# Distributed CHP Challenges in Remote Communities

Devany Plentovich  
Program Manager – Biomass & CHP

October 2018



SAFE,  
RELIABLE, &  
AFFORDABLE  
ENERGY  
SOLUTIONS



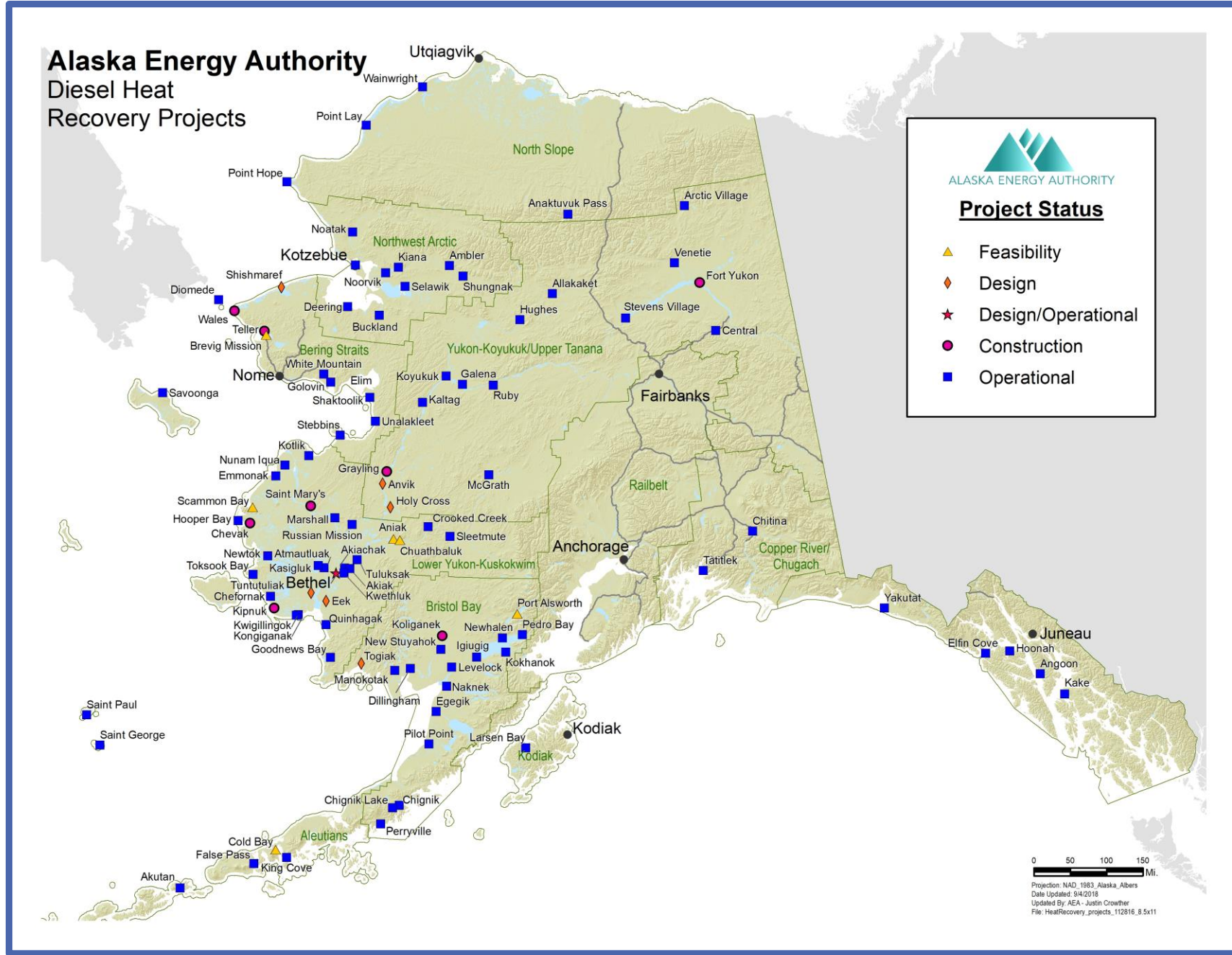
AEA's mission is to reduce the cost of energy in Alaska



# Alaska's Heat Recovery Systems

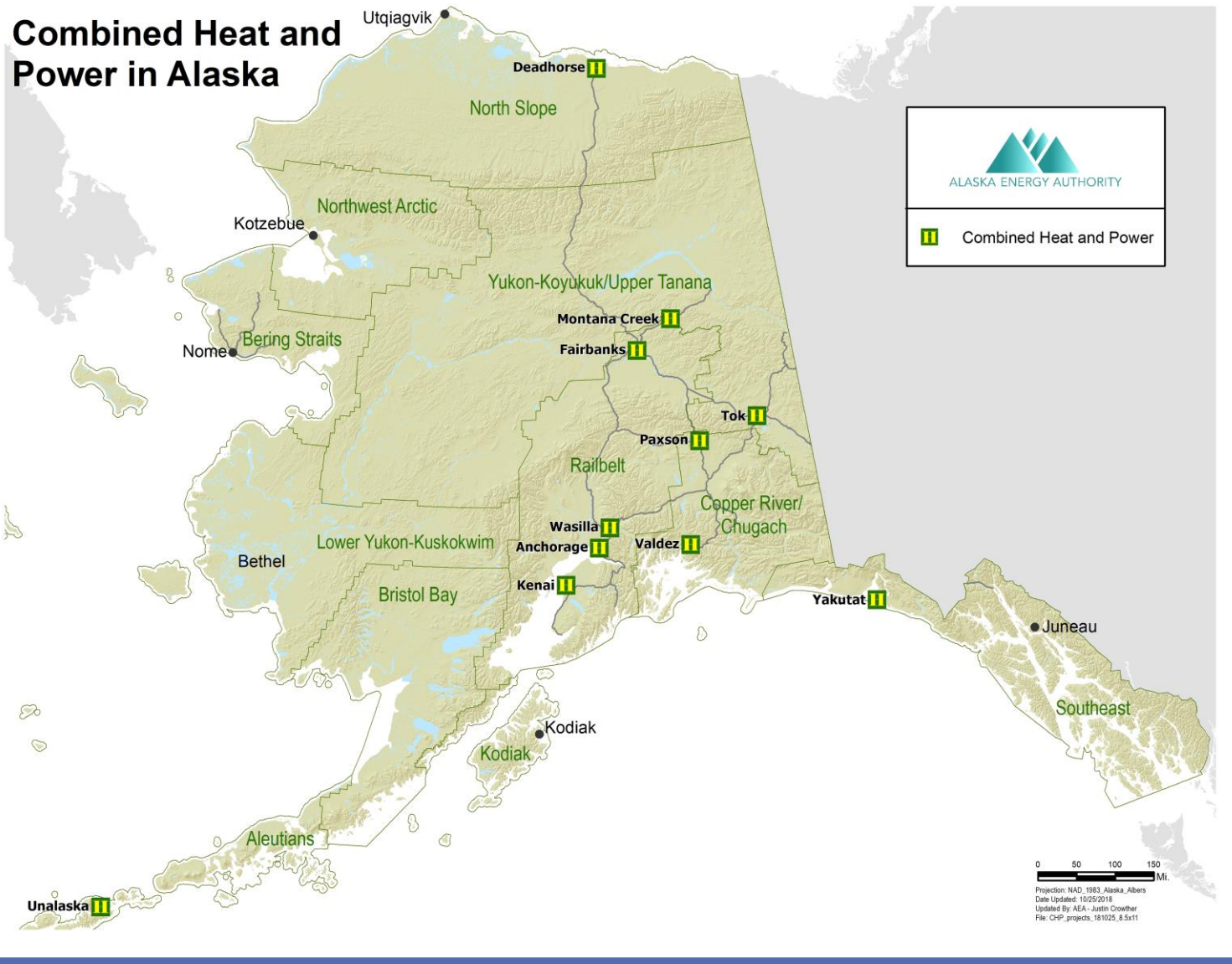
- 80 operational systems
- 8 systems in construction
- 6 systems in design

Identifying expansion opportunities





## Combined Heat and Power in Alaska



## Known CHP Systems in Alaska

- 11 communities
- Fuels
  - Natural Gas
  - Propane
  - Biomass
  - Diesel
  - Recovered Heat
  - Diesel

## What is missing?



# Distributed CHP Challenges and Opportunities in Remote Communities

David Van Holde, P.E. CEM

Director - Northwest CHP Technical Assistance Partnership



David Van Holde, a registered Professional Engineer and Certified Energy Manager, is a Senior Energy Systems Engineer with the Washington State University Energy Program. David leverages more than 27 years' experience working with utilities, governments and consulting firms to implement innovative supply and demand-side energy solutions and lead organizational change in support of advancing sustainable energy systems. His areas of expertise include combined heat and power and other distributed energy systems; government/utility energy policy, energy efficiency technology development and utility program design.



## Biomass Gasification CHP Pilot Project – Lessons Learned

Ben Loeffler, Energy Management Engineer

FNSB & ACEP



Ben Loeffler has a background in mechanical engineering and works as an Energy Management Engineer in a joint position with ACEP and the Fairbanks North Star Borough. He is responsible for the energy efficiency of Borough facilities and works with ACEP to advance energy technologies relevant to Alaska. In addition to Borough projects to improve lighting and building thermal efficiency, Ben worked with ACEP to pursue a biomass gasification CHP pilot project at a Borough facility. Today he will share details and lessons learned from the biomass pilot project effort.





## ALASKA ENERGY AUTHORITY

813 West Northern Lights Blvd.

Anchorage, Alaska 99503

Phone: (907) 771-3000

Fax: (907) 771-3044

Toll Free (Alaska Only) 888-300-8534

