

# ALASKA VILLAGE ELECTRIC COOPERATIVE

Energizing Rural Alaska since 1968

CAPACITY ASSESSMENT FOR NEW MEMBER VILLAGE

ALASKA FORUM ON THE ENVIRONMENT

FEBRUARY 9, 2017

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**Forest Button, Project Development**  
**Alaska Village Electric Cooperative**

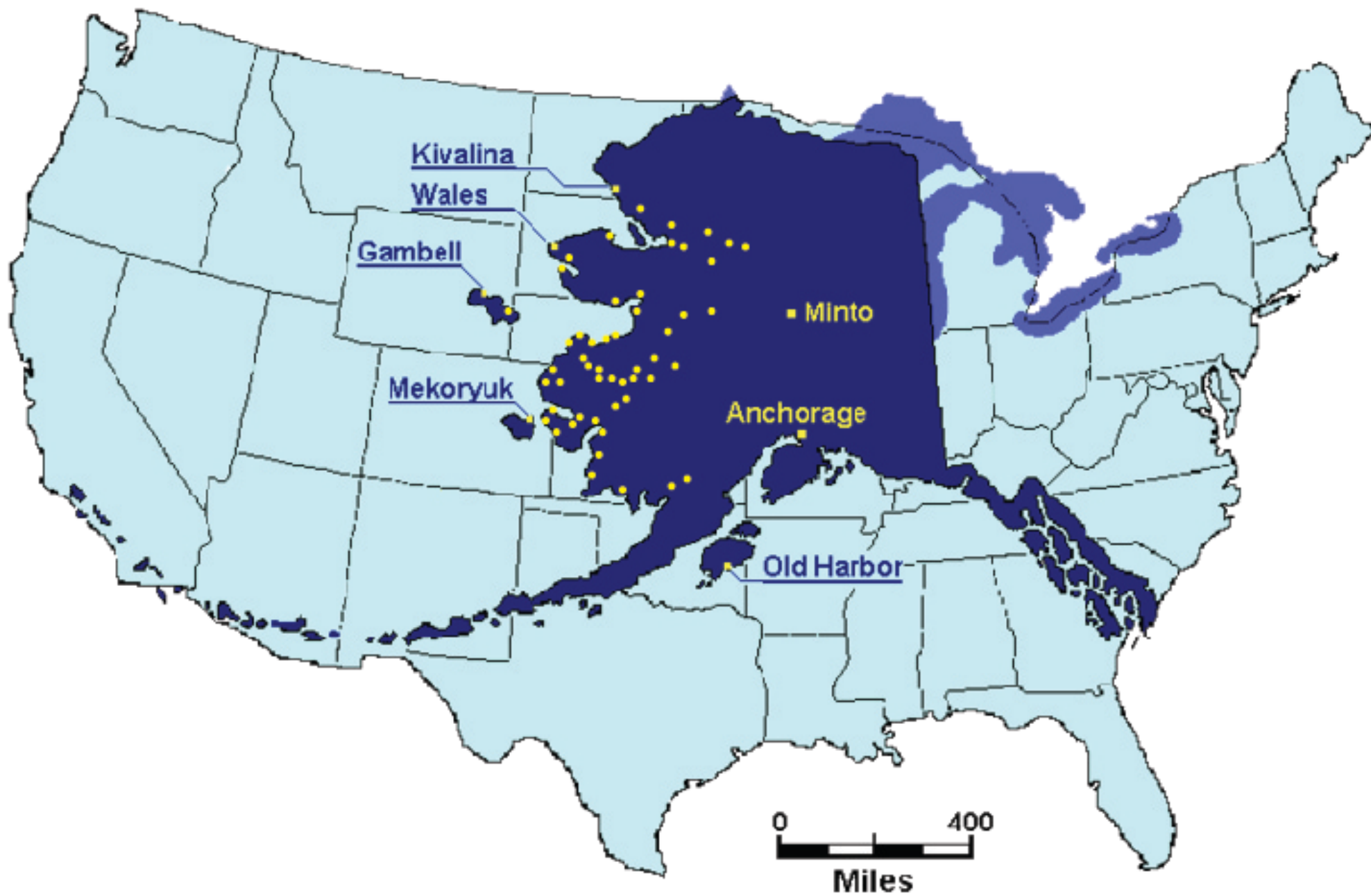


# Alaska Village Electric Cooperative

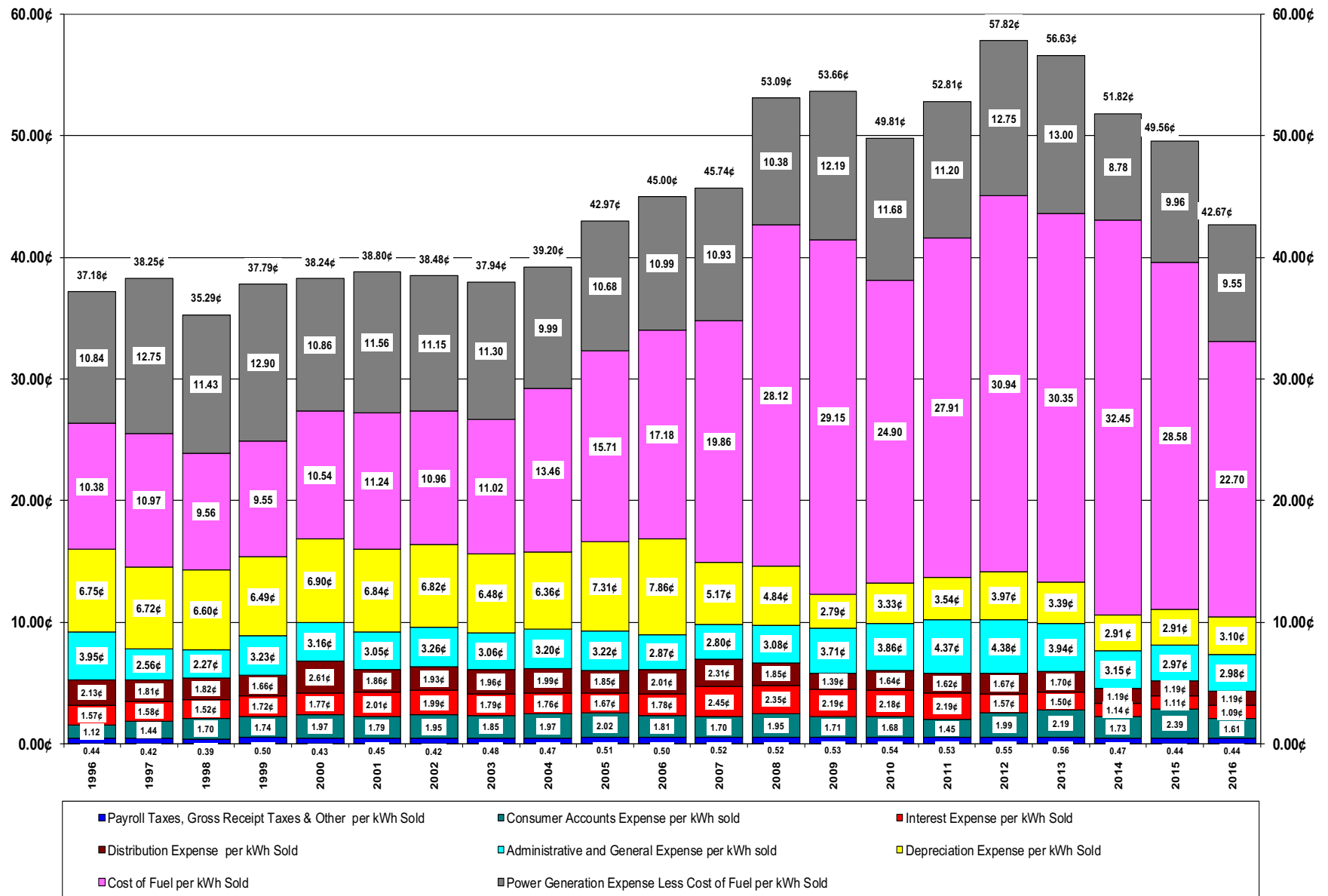
## Member owned, not-for-profit

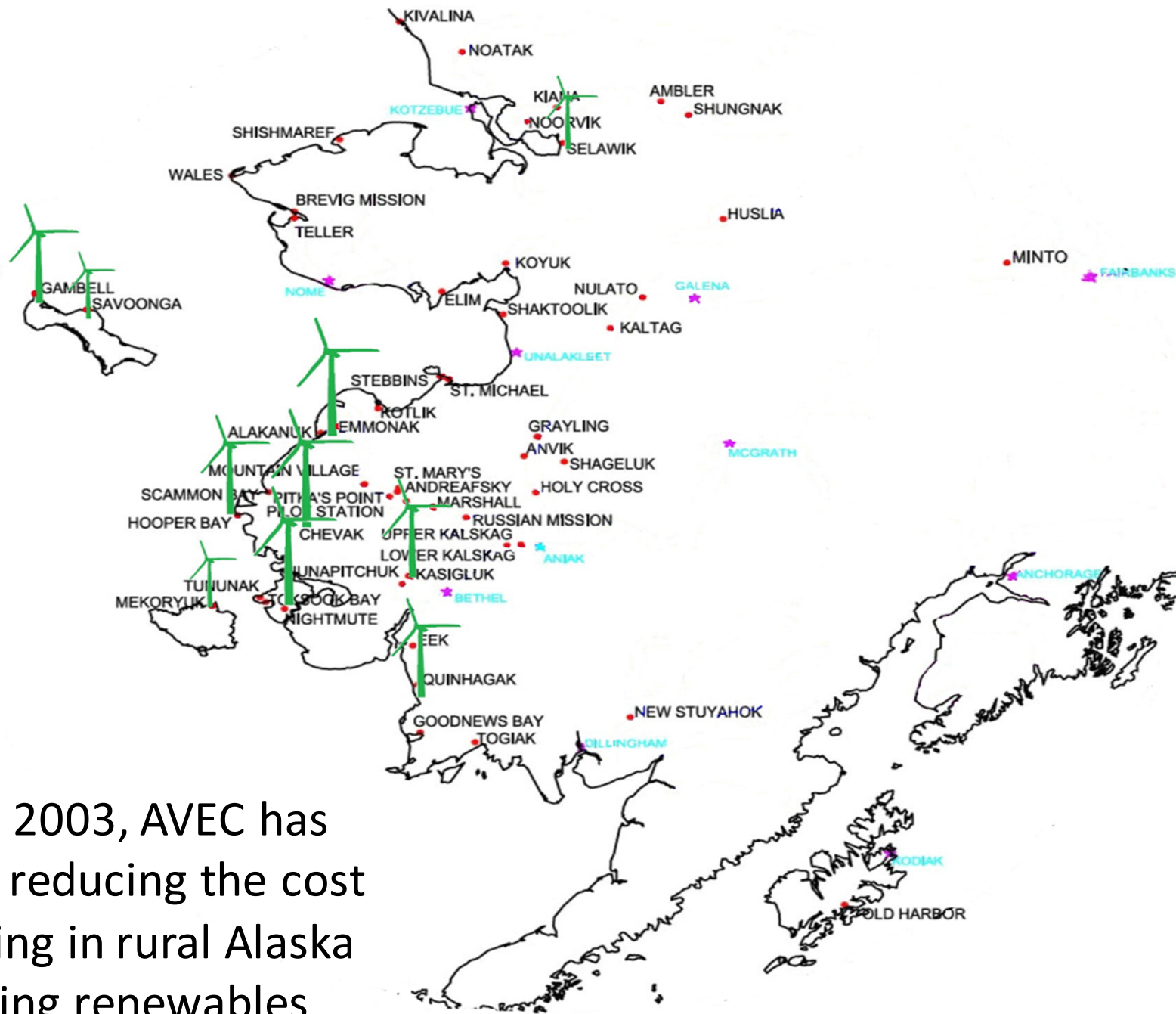
57 Alaska communities  
90 full time employees  
95 village plant operators  
10,800 services  
49 power plants  
170+ diesel generators  
500+ fuel tanks  
8.5 million gallons of diesel  
34 wind turbines serving 15 villages  
2 Solar PV projects in Kaltag and Noorvik  
Two tug and barge sets





# Alaska Village Electric Cost Components per Kilowatt-hour Sold





Since 2003, AVEC has been reducing the cost of living in rural Alaska by using renewables

# Considering a New Community

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- ✓ Physical condition of the facility
- ✓ What exactly AVEC is asked to acquire
- ✓ Will the community pay for itself
  
- Average Community = Cost \$325,000 for M&O
- Sales = 1,300,000 kWh \$0.25 breakeven \$0.27 minimum
- Minimum Community = \$200,000
- Sales = 800 kWh

# Human Capacity

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Power Plan Operators – 95

Wind Technicians – 2

Dedicated Operator Trainer

AVTEC



# Renewables

Current:            34 Wind turbines 3.26 Megawatt  
                         2 solar 33 kilowatt

2018:                2 Wind turbines 1.8 Megawatt



# Thank You!



Forest Button  
Project Development

Alaska Village Electric Cooperative

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