

# Alaska Department of Transportation & Public Facilities

## Division of Facilities Services Energy Efficiency Program

Last Update January 2021

Our mission is to *Keep Alaska Moving* through service and infrastructure.

# DIVISION OF FACILITIES SERVICES

## DFS Mission

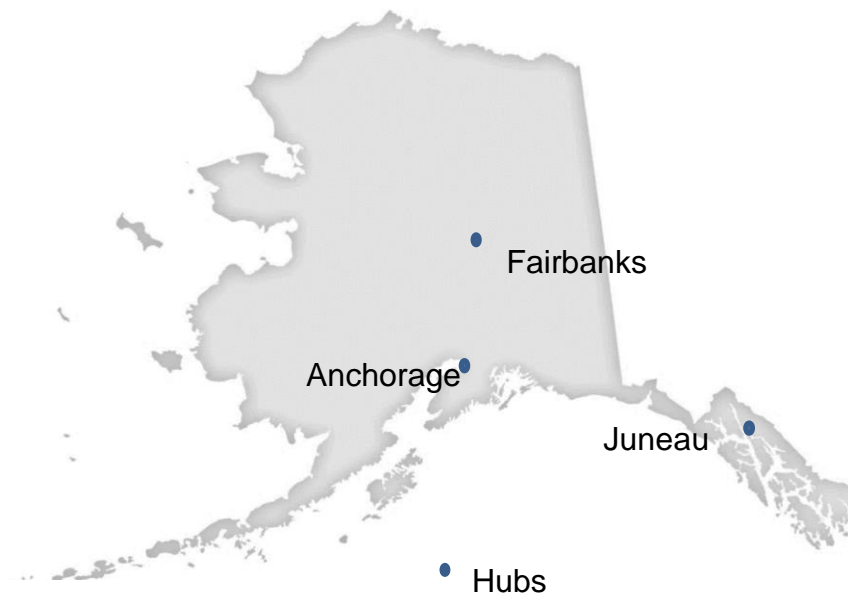
*Division of Facilities Services delivers, improves, and maintains safe and reliable facilities across Alaska.*

## Statewide Public Facilities

- Design and Construction project management of deferred maintenance, renovations, and new facilities.
- Registered Professionals in Architecture, Engineering, Energy, Project Management, and contracting

## Facilities Maintenance & Operations

- Facilities and Building professionals spanning all building trade disciplines
- Capabilities include from ground up construction to routine maintenance and repairs throughout all regions of state



Over 1,900 State owned facilities  
amongst all departments





# ENERGY PROGRAM

- Energy Program a part of the Division of Facilities Services of the DOT&PF
- AS 44.42.067 -Alaska Sustainable Energy Act
- Began with requirement to perform energy efficiency improvements in at least 25% of State public buildings 10,000 square feet or larger, excluding Legislative and Court Buildings by January 1, 2020
- Achieved this in 2014, and DOT&PF is continuing forward



BEFORE

*Mt. Edgecumbe High School*

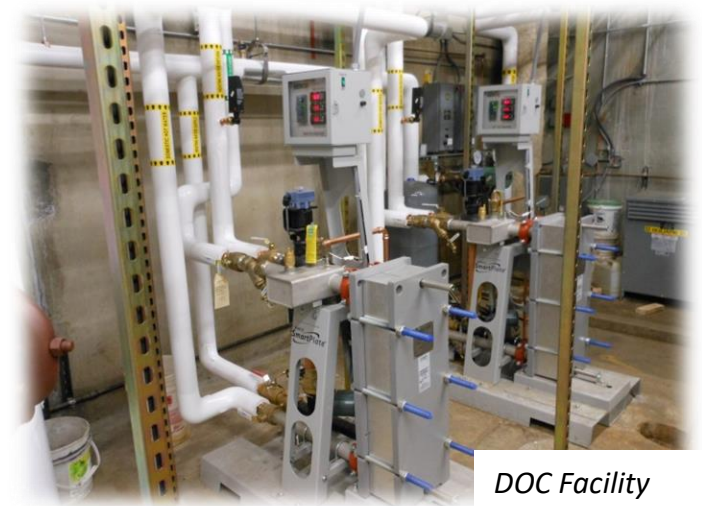


AFTER



# PROGRAM OVERVIEW

- Provides comprehensive energy efficiency project development, management, implementation and advisement to State and public agencies.
- Manages and executes *Energy Savings Performance Projects* with our Energy Service Companies to serve our State Agencies.
- Collaborates with state energy partners to improve statewide energy efficiency.
- Supported by OMB as part of state's overall strategy to achieve infrastructure renewal and maintenance.



# OUR PARTNERS

## State Agencies

- Alaska Housing Finance Corporation
- Alaska Energy Authority
- OMB and our Executive Branch Departments



## Energy Service Companies

- Ameresco Inc, Johnson Controls Inc, Siemens Industry, Inc.



## Alaska Design and Construction Community

- Local Architectural, Engineering, and Environmental firms
- Local Builders and Construction Companies
- Suppliers and Equipment Manufacturers

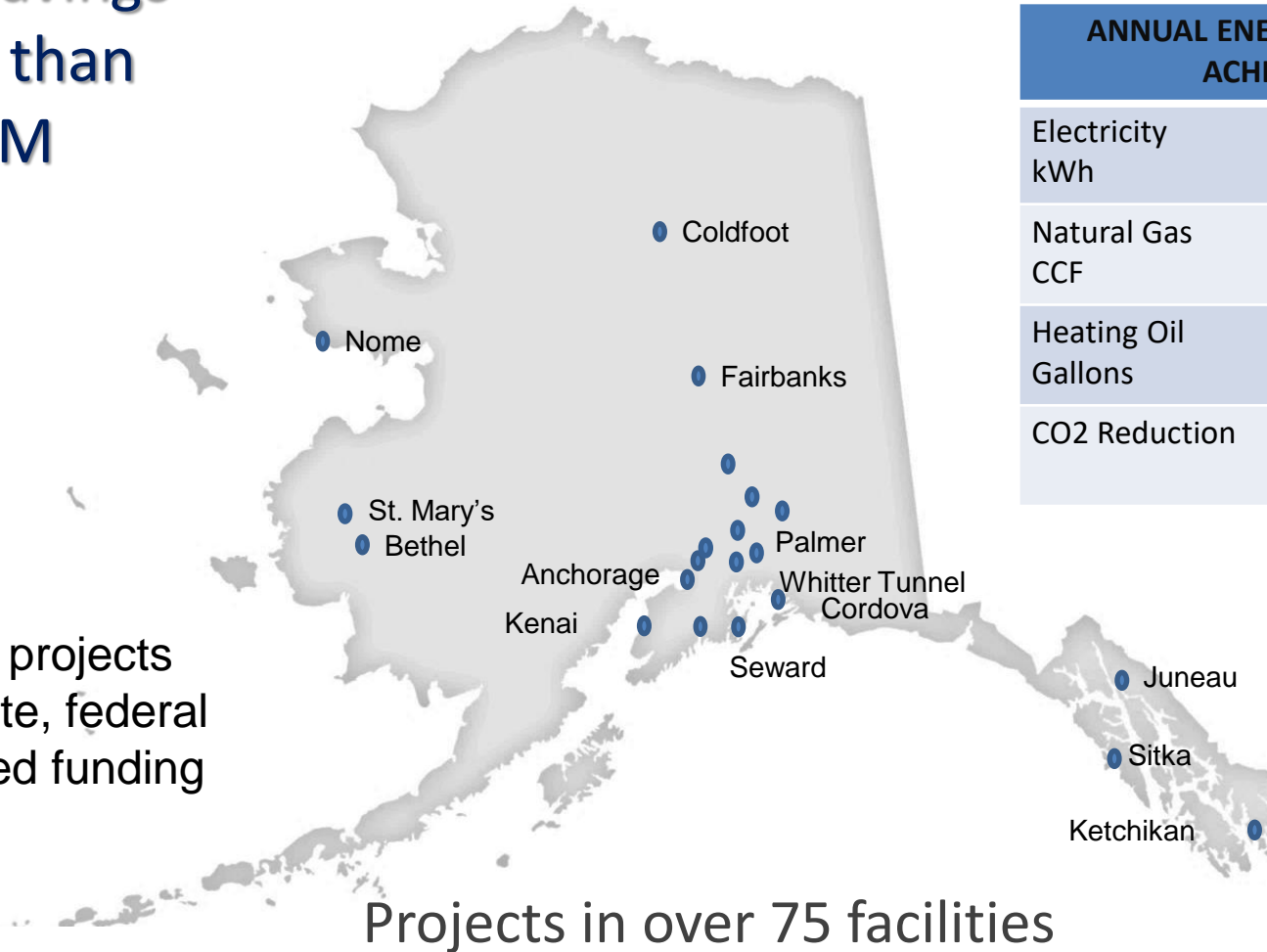




# ENERGY PROGRAM

Annual savings  
greater than  
\$4.1M

>\$40M in projects  
through state, federal  
and financed funding



ANNUAL ENERGY SAVINGS ACHIEVED	
Electricity kWh	> 10,461,245
Natural Gas CCF	> 277,123
Heating Oil Gallons	> 308,476
CO2 Reduction	>13,240 Tons

Projects in over 75 facilities

# METHODS AND BENEFITS

## Energy Savings Performance Contracting

- Energy Audits to identify opportunities
- Improvements are funded through available funds, or financed funds
- Financing is repaid from the energy savings of the project
- Energy savings is guaranteed



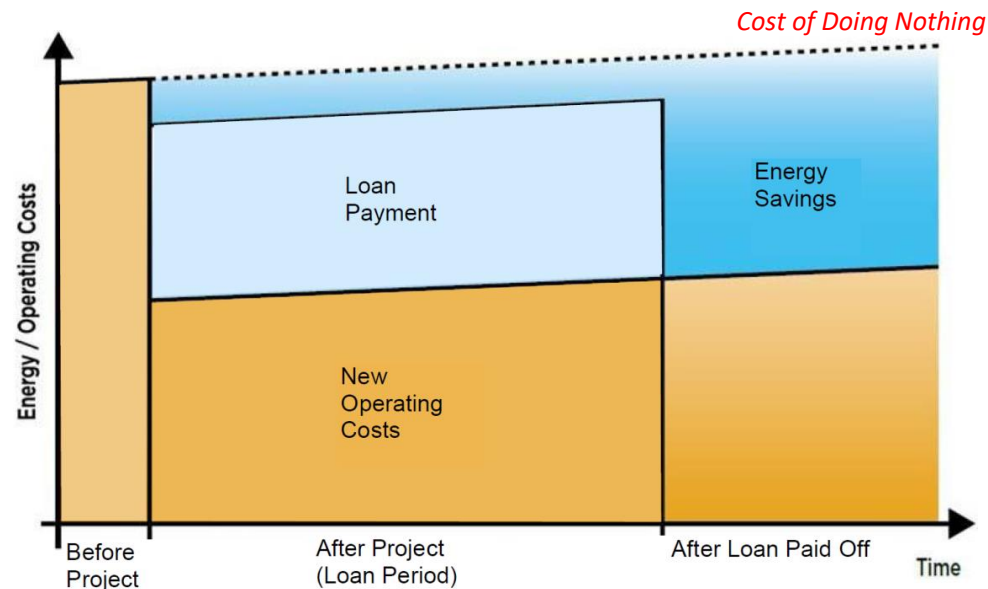
Before Project



After Project

## Benefits

- Reduce operational costs and extend building life
- Capital avoidance
- Maintaining/increasing asset value
- Enhance building capability and safety
- Economic development
- Healthy workplace environment and employee morale



# RECENT HIGHLIGHTS

## 2019-20 Highlights:

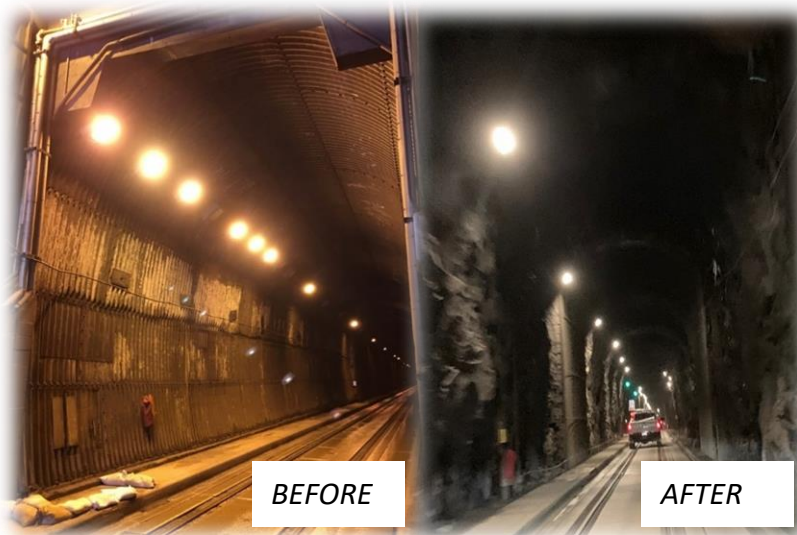
- DOT&PF Anton Anderson Memorial Tunnel
- DEC Environmental Health Lab DOT&PF Streetlight Upgrades – Implementing

## 2021 In-Progress:

- DEED APK Bldg. Energy Upgrades - Implementing
- DOA Fairbanks Regional Office Bldg. – Implementing
- DOT&PF Roadway Lighting



*The DEC Lab Energy Project, reduces utility costs by \$200K annually, or 69%.*



*The Whittier Tunnel Energy Project reduces tunnel utility costs by \$200K annually, or 60%.*



**EHL New Main Heating & Steam Systems**





# ENERGY PROGRAM

## Technologies & Opportunities:

- Building envelope upgrades - windows, insulation, etc.
- New lighting systems and controls
- High efficiency heating, cogeneration and HVAC systems
- Building controls and more

## An Effective Program

- Continues to be an existing and effective tool for improving our infrastructure portfolio by:
- Seeking and executing **measurable** efficiency opportunities, and
- Making our infrastructure more **efficient, functional, and sustainable** to serve our communities

## Further Potential:

- Great continued potential in public facilities



BEFORE

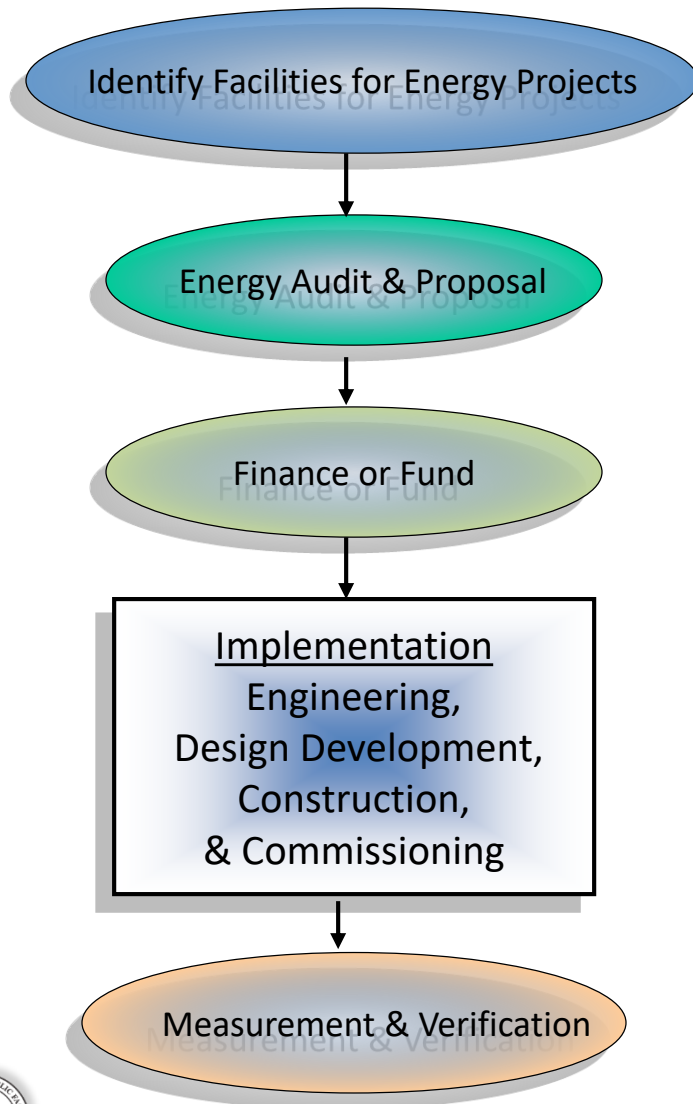
St Mary's Maintenance Shop



AFTER



# MAJOR PROJECT STEPS



1. Identify facilities based on energy usage and their potential
2. Energy Service Companies provides an Investment Grade Audit & Proposal
  - Comprehensive engineering and financial analysis; proposed energy efficiency improvements
3. *Finance or fund the project*
  - OMB vetted process for financing (low interest, tax exempt municipal lease)
  - Commitments: ASD, Agency Commissioner, OMB
4. Energy Service Companies implement the energy efficiency improvements
5. Project performance is measured and validated



# REFLECTION

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***Thank you  
for your interest and this opportunity.***



# OUR MISSION, VISION, & VALUES

## Mission:

*Division of Facilities Services delivers, improves, and maintains safe and reliable facilities across Alaska.*

## Vision:

*Division of Facilities Services strives to be the premier facilities service provider for Alaskans. We achieve shared goals through strategic collaboration, planning, and continuous improvement. We leverage experience, technology, and industry best practices to optimize our facilities and make evidence-based decisions.*

## Values:

**Integrity:** *Doing the right thing, even when no one is watching. Doing what we say we are going to do.*

**Excellence:** *Commitment to continuous improvement, innovation and quality.*

**Respect:** *Unconditional positive and professional regard for team members: customers, stakeholders and coworkers.*

**Service:** *Diligently fulfill the needs of our customers to prepare for Alaska's future.*

**Safety:** *Provide safe facilities and promote a safety culture.*