



Alaska Department of Transportation & Public Facilities

Statewide Public Facilities Overview

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Authority

- AS 35.05.010 & AS 36.30
- Statewide Public Facilities is responsible for the planning, design and construction of the majority of new public facilities as well as renovation of existing facilities within the State of Alaska.



Statewide Public Facilities

- Provides full service project management for facility construction and renovation.
- Management of Architectural/Engineering professional service agreements.
- Management and oversight of construction projects including program planning, site selection, cost estimating, management of design services, construction management services, art selection, commissioning services and warranty work.



Statewide Public Facilities

- Provide Project Management services for most executive branch departments as well as local communities and tribal organizations on an as needed basis.
- Our projects range from smaller projects such as the Sitka Pioneer Home Reroof project to larger and more complex projects such as the State Library Archives and Museum in Juneau.



Statewide Public Facilities Projects

- We currently manage 155 projects-including projects in various stages of completion from initial scoping to final close out.
- Total of \$658M of projects currently being managed.



Statewide Public Facilities

Staff includes

- Licensed Architects, Civil, Mechanical and Electrical Engineers
- Certified Energy Managers
- Leadership In Energy & Environmental Design Accredited Professionals
- Paraprofessional Staff



Alaska Veterans' and Pioneer's Home Siding and Painting

- Cost - \$677,550
- Client Agency – Department of Health and Social Services



Before



After



Statewide Library Archive and Museum

- Cost - \$138,665,000
- Client Agency – Department of Education and Early Development





Energy Program

- AS 44.42.067
- Our statutory requirement is 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.
- With the completion of the Mt. Edgecumbe High School Campus Wide Energy Upgrade project, we accomplished this requirement in 2014.



Services Provided

- Assessment and comprehensive energy audits
- Project development, life cycle cost analysis and facilitating project financing options
- Project execution and management
- Monitoring of completed projects to ensure that they have met their energy efficiency goals



ENERGY EFFICIENCY RESULTS

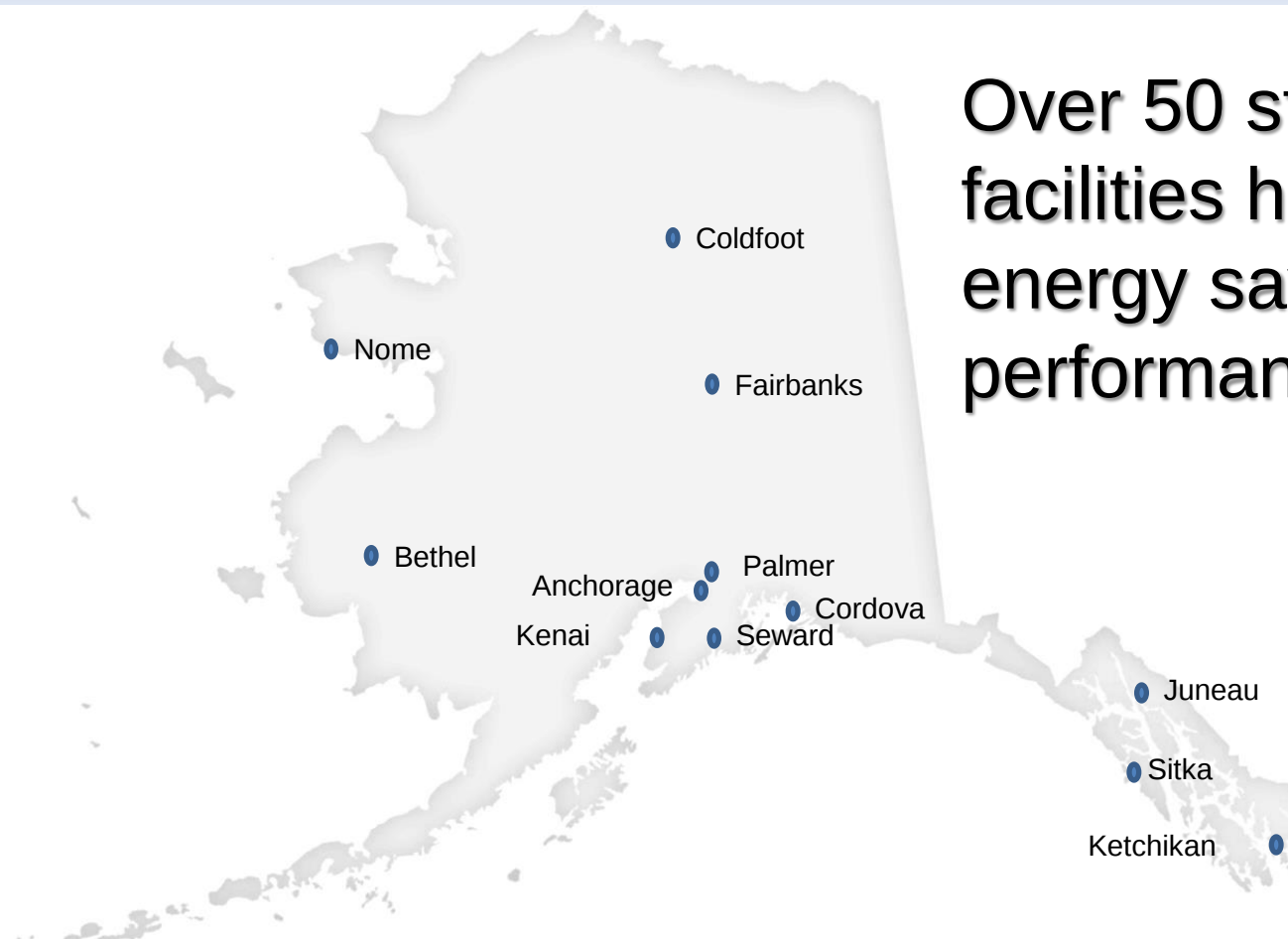
Through energy savings performance contracting– the state has achieved combined energy cost savings greater than **\$2.4M per year.**

ANNUAL ENERGY SAVINGS ACHIEVED		
Electricity	> 7,700,000	kWh
Natural Gas	> 162,000	CCF
Heating Oil	> 237,000	Gallons
CO2 Reduction	> 9,500	Tons



PROJECTS ACCOMPLISHED

Over 50 state public facilities have received energy savings performance projects.

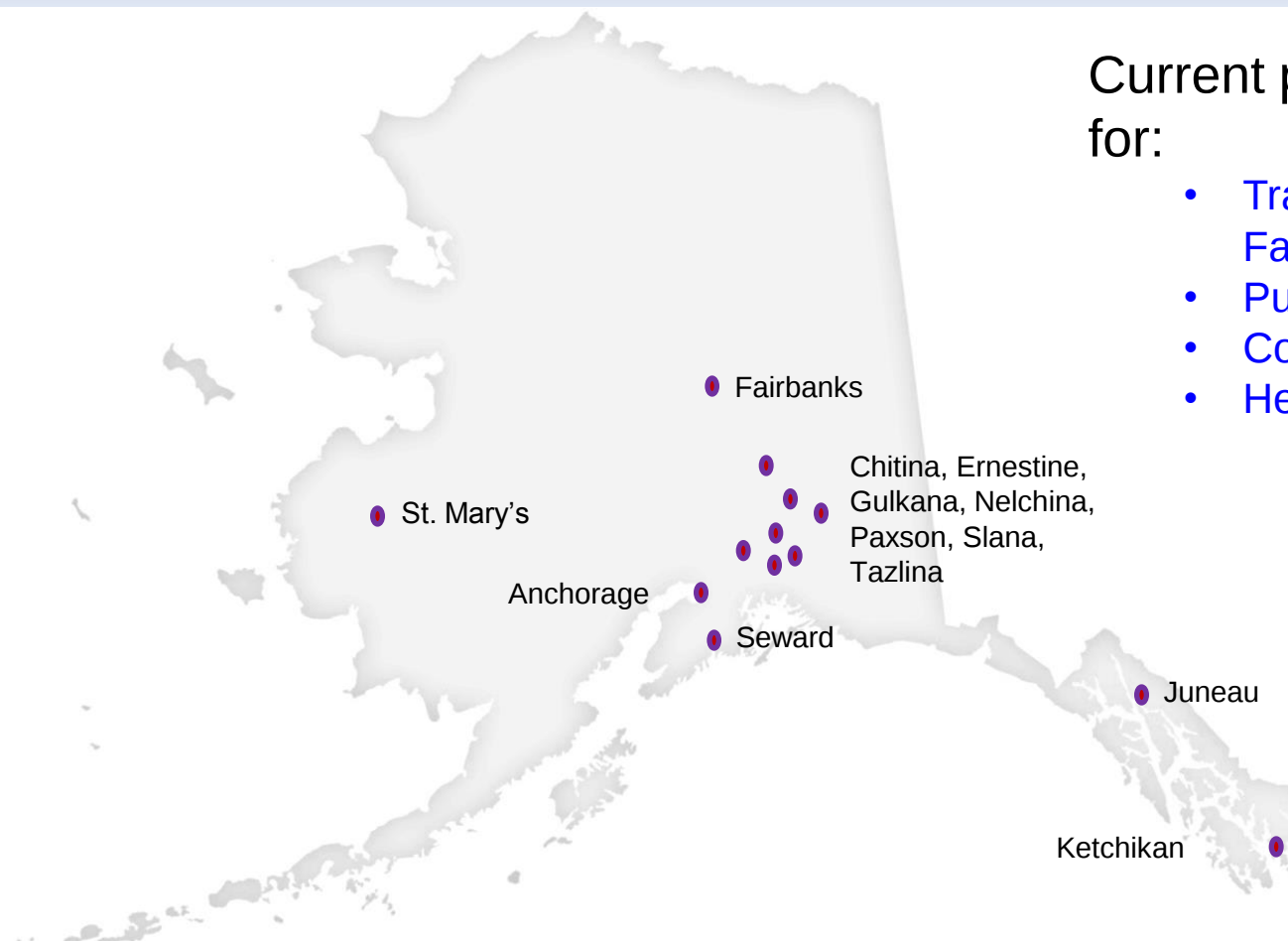




PROJECTS IN-PROGRESS

Current projects in development for:

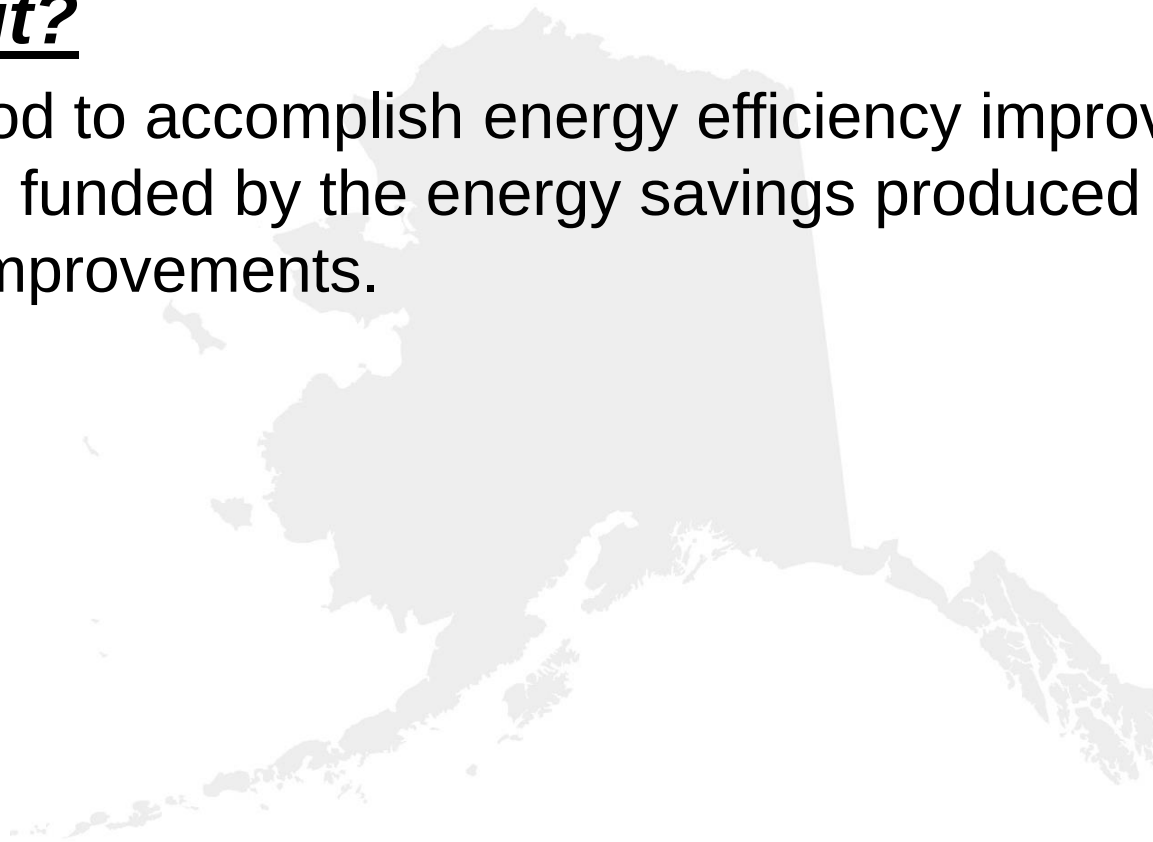
- Transportation & Public Facilities
- Public Safety
- Corrections
- Health & Social Services





ENERGY SAVINGS PERFORMANCE CONTRACTING

- **What is it?**
 - A method to accomplish energy efficiency improvements that are funded by the energy savings produced by those same improvements.





ENERGY EFFICIENCY

Examples of technologies implemented or analyzed include

- *New lighting technologies – fluorescent and LED*
- *High efficiency heating systems (fuel oil, natural gas), cogeneration*
- *Heat pump systems, air, ground-source, or seawater heat pump systems*
- *Renewables - photovoltaic systems, wind, biomass heating*





ENERGY EFFICIENCY EXAMPLES

- Energy Efficiency Improvement Examples: Lighting Upgrades**

Before



After

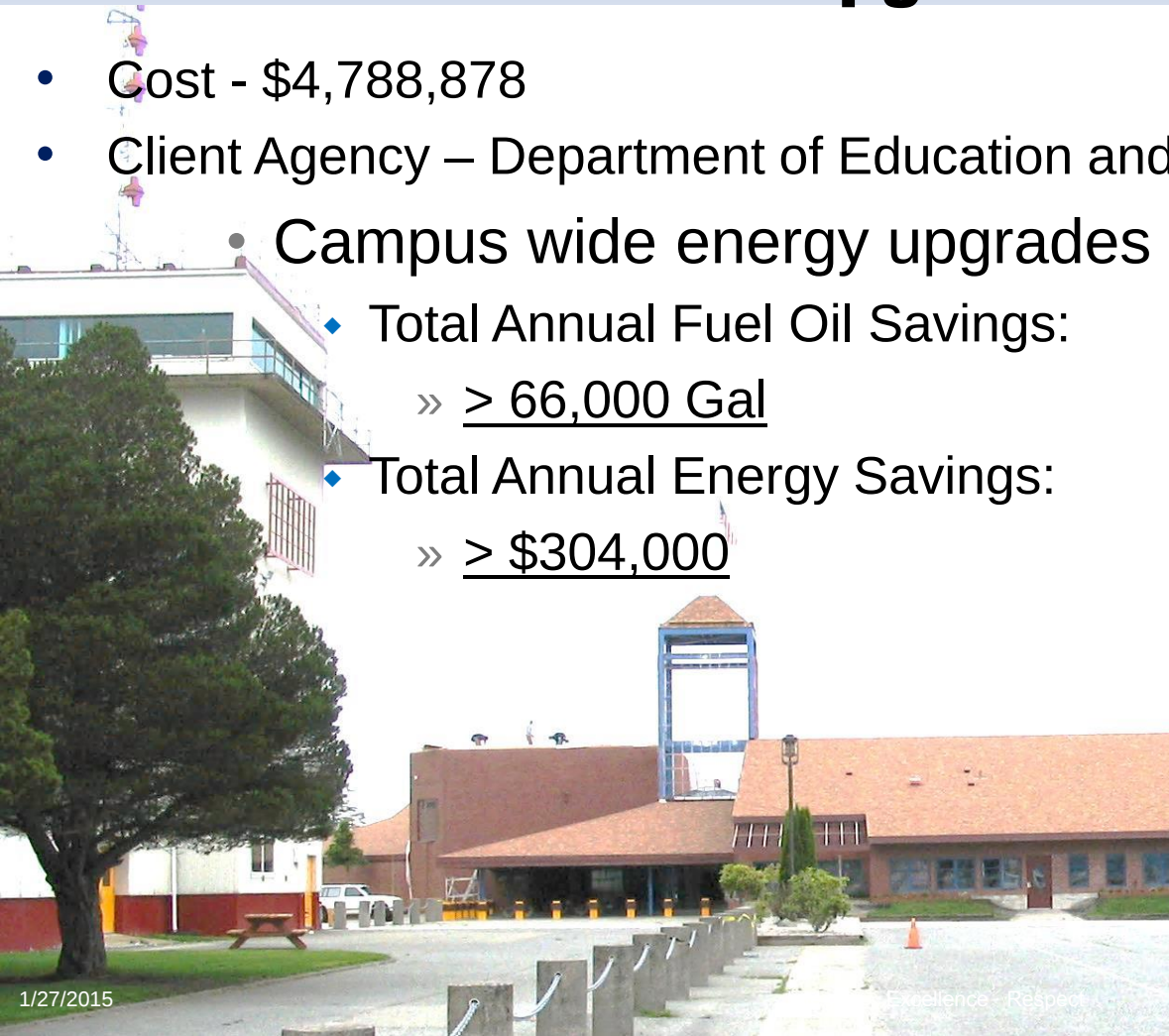


At Mt. Edgecumbe High School (Sitka) – new high efficiency fluorescent lights were installed in the Gymnasium-both reducing energy use and dramatically improving the gym environment.



Mt. Edgecumbe High School Campus Wide Energy Upgrades

- Cost - \$4,788,878
- Client Agency – Department of Education and Early Development
 - Campus wide energy upgrades
 - ◆ Total Annual Fuel Oil Savings:
 - » > 66,000 Gal
 - ◆ Total Annual Energy Savings:
 - » > \$304,000





FOR FURTHER INFORMATION

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