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# ANTHC Rural Energy Initiative

## Our Path: A Comprehensive and Collaborative Approach



### Energy Audit

### Analysis

### Implement Recommendations

### Savings

#### Onsite Assessment

Collect Data

#### Evaluate Operating Practices

Assess Facility Energy Use

#### Develop Energy Model

Identify Potential Improvements

#### Identify Cost to Implement

#### Develop Training Plan

Purchase Materials

#### Implement Efficiency Retrofits

Provide Operator Training

#### Construct Renewable Energy Systems

#### Monitor Energy Usage

Evaluate Retrofit Effectiveness

*We believe basic sanitation should be efficient, sustainable and affordable*

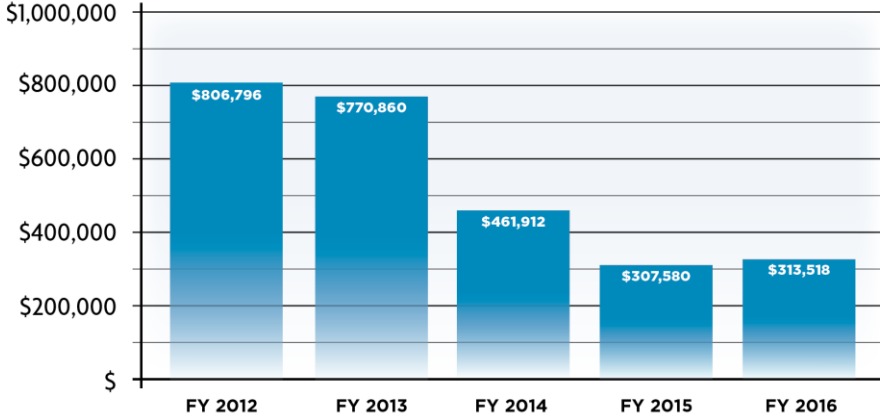


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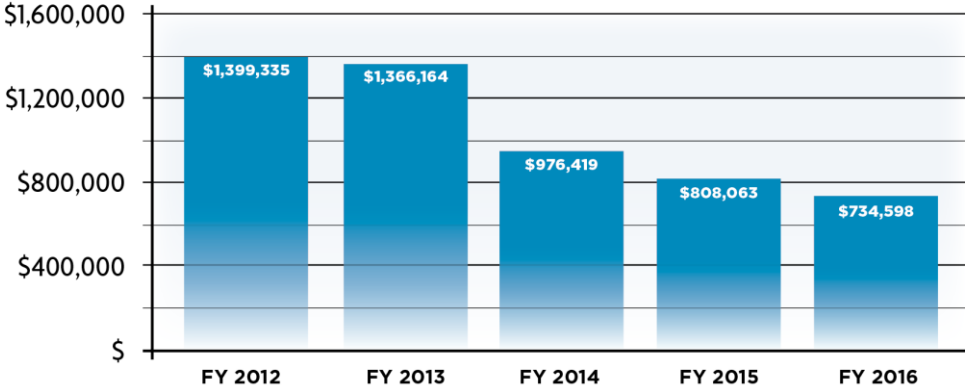
# Improved Energy and Operational Efficiency

Through energy efficiency projects in partnership with ANTHC’s Rural Energy Initiative, ARUC continues to see a decline in energy expenses, such as fuel and electricity. Energy costs are the second highest expense for water and wastewater facilities. Energy projects include heat recovery, wind-to-heat, and biomass systems. These projects utilize local energy sources to offset fuel and electricity consumption.

Cost of Purchased Heating Fuel by Year



ARUC Energy Costs by Year



# ARUC Energy Efficiency Projects

- **Chevak**
  - Utilize dispatchable wind electricity to provide heat to the sanitation system
  - Wind-to-heat savings of \$50,000 annually
- **Noorvik**
  - Utilize excess heat from diesel power plant to heat the community sanitation system
  - Heat recovery savings of \$45,000 annually
- **Quinhagak**
  - Heat recovery savings of \$64,000 annually



# Questions?

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