



Southeast Integrated Resource Plan – SEIRP

Projections of Benefits to the Residents of SE Alaska

The SEIRP is a draft report presently out for public comment and under review by the AEA.

House Energy Committee
Alaska State Legislature
February 9th, 2012

Yearly energy costs as a percentage of household income

<i>Angoon</i>	(\$)	(% of income)
Yearly Household Income:	\$28,479	
Yearly Utility Costs 2011:	\$9,067	31.8%
Yearly Utility Costs 2016 (no implementation):	\$9,980	35.0%
Yearly Utility Costs 2016 (full implementation):	\$6,958	24.4%

<i>Prince of Wales Island (Craig)</i>	(\$)	(% of income)
Yearly Household Income:	\$28,479	
Yearly Utility Costs 2011:	\$7,057	24.8%
Yearly Utility Costs 2016 (no implementation):	\$8,782	30.8%
Yearly Utility Costs 2016 (full implementation):	\$5,762	20.2%

<i>Juneau</i>	(\$)	(% of income)
Yearly Household Income:	\$48,062	
Yearly Utility Costs 2011:	\$7,073	14.7%
Yearly Utility Costs 2016 (no implementation):	\$8,124	16.9%
Yearly Utility Costs 2016 (full implementation):	\$5,858	12.2%



Angoon Home Budget

2016 Full Implementation

2011 Base Case

2016 No Implementation

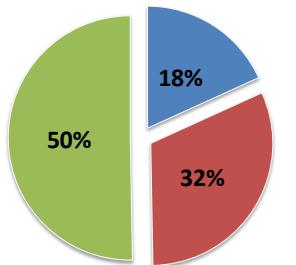
Input

Location:	Angoon
Building Size:	1200 sq feet
Space Heating Type:	Biomass, Pellets
Space Heating Cost:	\$350.00 per TON
Residential Electricity Rate:	\$0.61 per kWh
PCE Eligible	YES
PCE Rate	\$0.41 per kWh
Gasoline Price:	\$4.53 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$1,267	\$106
Heating Costs	\$2,192	\$183
Transportation Costs	\$3,499	\$292
TOTAL	\$6,958	\$580



■ Electricity ■ Space Heating ■ Transportation

2/9/2012

**30.3% realized savings over
"No Implementation"**

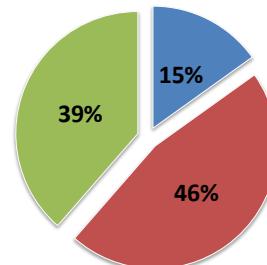
Input

Location:	Angoon
Building Size:	1200 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$4.60 per gallon
Residential Electricity Rate:	\$0.61 per kWh
PCE Eligible	YES
PCE Rate	\$0.41 per kWh
Gasoline Price:	\$4.53 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$1,370	\$114
Heating Costs	\$4,198	\$350
Transportation Costs	\$3,499	\$292
TOTAL	\$9,067	\$756



■ Electricity ■ Space Heating ■ Transportation



SEIRP - draft plan analysis

2016 No Implementation

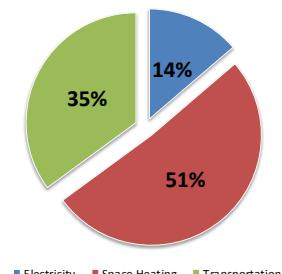
Input

Location:	Angoon
Building Size:	1200 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$5.60 per gallon
Residential Electricity Rate:	\$0.61 per kWh
PCE Eligible	YES
PCE Rate	\$0.41 per kWh
Gasoline Price:	\$4.53 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$1,370	\$114
Heating Costs	\$5,111	\$426
Transportation Costs	\$3,499	\$292
TOTAL	\$9,980	\$832



■ Electricity ■ Space Heating ■ Transportation

10.1% increase from 2011

POW Island (Craig) Home Budget

2016 Full Implementation

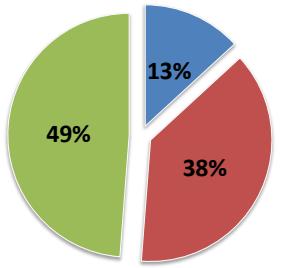
Input

Location:	Prince of Wales (Craig)
Building Size:	1200 sq feet
Space Heating Type:	Biomass, Pellets
Space Heating Cost:	\$350.00 per TON
Residential Electricity Rate:	\$0.22 per kWh
PCE Eligible	YES
PCE Rate	\$0.07 per kWh
Gasoline Price:	\$3.64 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$759	\$63
Heating Costs	\$2,192	\$183
Transportation Costs	\$2,811	\$234
TOTAL	\$5,762	\$480



**34.4% realized savings over
"No Implementation"**

2/9/2012

2011 Base Case

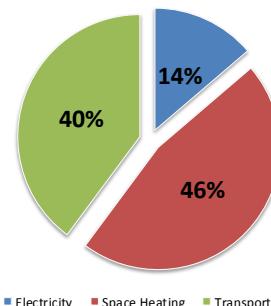
Input

Location:	Prince of Wales (Craig)
Building Size:	1200 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$3.59 per gallon
Residential Electricity Rate:	\$0.22 per kWh
PCE Eligible	YES
PCE Rate	\$0.07 per kWh
Gasoline Price:	\$3.64 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$970	\$81
Heating Costs	\$3,277	\$273
Transportation Costs	\$2,811	\$234
TOTAL	\$7,057	\$588



SEIRP - draft plan analysis

2016 No Implementation

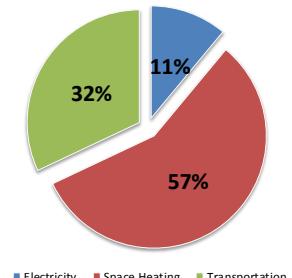
Input

Location:	Prince of Wales (Craig)
Building Size:	1200 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$5.48 per gallon
Residential Electricity Rate:	\$0.22 per kWh
PCE Eligible	YES
PCE Rate	\$0.07 per kWh
Gasoline Price:	\$3.64 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$970	\$81
Heating Costs	\$5,002	\$417
Transportation Costs	\$2,811	\$234
TOTAL	\$8,782	\$732



24.5% increase from 2011

Juneau Home Budget

2016 Full Implementation

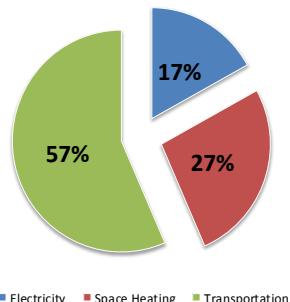
Input

Location:	Juneau
Building Size:	1600 sq feet
Space Heating Type:	Biomass, Pellets
Space Heating Cost:	\$310.00 per TON
Residential Electricity Rate:	\$0.11 per kWh
PCE Eligible	NO
PCE Rate	\$0.00 per kWh
Gasoline Price:	\$3.43 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$994	\$83
Heating Costs	\$1,553	\$129
Transportation Costs	\$3,311	\$276
TOTAL	\$5,858	\$488



**27.9% realized savings over
"No Implementation"**

2/9/2012

2011 Base Case

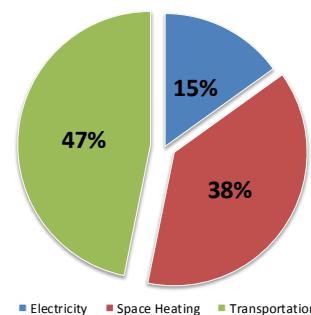
Input

Location:	Juneau
Building Size:	1600 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$3.69 per gallon
Residential Electricity Rate:	\$0.11 per kWh
PCE Eligible	NO
PCE Rate	\$0.00 per kWh
Gasoline Price:	\$3.43 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$1,067	\$89
Heating Costs	\$2,694	\$225
Transportation Costs	\$3,311	\$276
TOTAL	\$7,073	\$589



2016 No Implementation

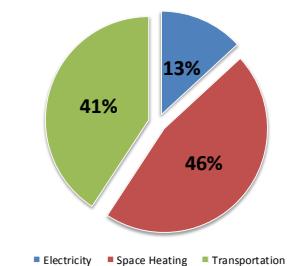
Input

Location:	Juneau
Building Size:	1600 sq feet
Space Heating Type:	Heating Fuel #1
Space Heating Cost:	\$5.13 per gallon
Residential Electricity Rate:	\$0.11 per kWh
PCE Eligible	NO
PCE Rate	\$0.07 per kWh
Gasoline Price:	\$3.43 per gallon

Note: if Space Heating Type is Electricity, Space Heating Costs should equal Residential Electricity Rate

Output

	Annual Costs	Monthly Costs
Electricity Costs	\$1,067	\$89
Heating Costs	\$3,746	\$312
Transportation Costs	\$3,311	\$276
TOTAL	\$8,124	\$677



14.9% increase from 2011



SEIRP - draft plan analysis