



**Operating Cost Summary**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

Notes: Location known for high winds.

**System Annual Fuel Cost Comparison**

	Base System	Investment 1	Investment 2	Investment 3
System Name:	10 AC + 80 Furn	14 AC + 80 Furn	12 Seer HP	14 Seer HP
Cooling \$:	154.03	113.80	129.31	113.84
Heating \$:	78.97	77.34	49.42	51.05
Hot Water \$:	0.00	0.00	0.00	0.00
Total \$:	233.00	191.14	178.74	164.89

**Long-term Operating Cost Comparison**

\*REFERENCE\*

	Cost	Savings	Cost	Savings	Cost	Savings	Cost	Savings
Year 1 \$:	364	0	322	42	310	54	296	68
Year 2 \$:	679	0	595	84	570	109	543	136
Year 3 \$:	941	0	816	126	779	163	737	204
Year 4 \$:	1175	0	1007	168	957	217	902	273
Year 5 \$:	1408	0	1198	209	1136	271	1067	341
Year 10 \$:	2575	0	2156	419	2032	543	1893	682
Payback: yrs	0.0		0.0		0.0		0.0	
ROI: %	0.0		0.0		0.0		0.0	
Savings: \$/mo	0.00		3.49		4.52		5.68	

*Note: Actual costs and savings may differ due to weather, operating conditions, maintenance, and construction.*



**Operating Cost Details**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Design Conditions**

Weather Location: Honolulu, HI, US  
 Heating Hours: 2200 Cooling Hours: 900  
 Heating Load (Btuh): 3557 Cooling Load (Btuh): 14391

**Equipment**

Base System:  
 Cooling: Sample SampCorp ACS017100  
 Heating: Sample SampCorp ACP035100

Investment 1:  
 Cooling: Sample SampCorp ACP024140  
 Heating: Sample SampCorp GF04492

Investment 2:  
 Heat pump: Sample SampCorp HPS017120-075  
 Backup: Elec strip

Investment 3:  
 Heat pump: Sample SampCorp HPS024140-085  
 Backup: Elec strip

**Equipment Specifications**

	Base System	Investment 1	Investment 2	Investment 3
System type	10 AC + 80 Furn	14 AC + 80 Furn	12 Seer HP	14 Seer HP
Clg Capacity (Btuh)	17400	24000	17200	24200
Htg Capacity (Btuh)	35000	44000	3557	3557
Clg Efficiency	10 SEER	14 SEER	12 SEER	14 SEER
Htg Efficiency	80 AFUE	92 AFUE	7.5 HSPF	8.5 HSPF
BU Efficiency			100 EFF	100 EFF
DWH Efficiency				

**Fuel Unit Costs**

Cooling	Unit cost:	0.12 \$/kWh	0.12 \$/kWh	0.12 \$/kWh	0.12 \$/kWh
	Escalation:	0.03 %	0.03 %	0.03 %	0.03 %
Heating	Unit cost:	1.20 \$/thrm	1.20 \$/thrm	0.12 \$/kWh	0.12 \$/kWh
	Escalation:	0.03 %	0.03 %	0.03 %	0.03 %
Backup	Unit cost:				
	Escalation:				
HotWater	Unit cost:				
	Escalation:				

## Financing

		Base System	Investment 1	Investment 2	Investment 3
Total cost	\$:	2544.72	2544.72	2544.72	2544.72
Down payment	\$:	0.00	0.00	0.00	0.00
Amount financed	\$:	2544.72	2544.72	2544.72	2544.72
Interest	%:	6.0	6.0	6.0	6.0
Term	mo:	36.0	36.0	36.0	36.0
Monthly payment	\$:	77.42	77.42	77.42	77.42

## Operating Costs

Sys	Yr	Cooling Electr.	Cl g Fan El ectr.	Heating Fuel	Htg BU Fuel	Htg Fan Electr.	Hot Water	Maint. Cost	Intrst Cost	Total Cost
B	1	136	18	76	0	3	0	0	131	364
A	2	272	36	151	0	7	0	0	213	679
S	3	408	54	227	0	10	0	0	242	941
E	4	544	72	303	0	13	0	0	242	1175
	5	680	90	378	0	17	0	0	242	1408
S	6	817	108	454	0	20	0	0	242	1641
Y	7	953	126	530	0	23	0	0	242	1875
S	8	1089	144	606	0	27	0	0	242	2108
.	10	1362	181	757	0	33	0	0	242	2575
I	1	94	20	73	0	4	0	0	131	322
N	2	188	39	146	0	9	0	0	213	595
V	3	283	59	219	0	13	0	0	242	816
E	4	377	79	292	0	18	0	0	242	1007
S	5	471	98	365	0	22	0	0	242	1198
T	6	565	118	438	0	27	0	0	242	1390
.	7	660	138	511	0	31	0	0	242	1581
	8	754	157	584	0	36	0	0	242	1773
1	10	943	197	730	0	44	0	0	242	2156
I	1	111	18	29	16	4	0	0	131	310
N	2	223	36	58	32	8	0	0	213	570
V	3	334	54	88	49	12	0	0	242	779
E	4	445	72	117	65	16	0	0	242	957
S	5	557	90	146	81	20	0	0	242	1136
T	6	668	108	175	97	24	0	0	242	1315
.	7	780	126	205	113	28	0	0	242	1494
	8	891	144	234	130	32	0	0	242	1674
2	10	1114	180	292	162	40	0	0	242	2032
I	1	94	20	31	14	6	0	0	131	296
N	2	188	39	63	28	12	0	0	213	543
V	3	283	59	94	41	17	0	0	242	737
E	4	377	79	126	55	23	0	0	242	902
S	5	471	98	157	69	29	0	0	242	1067
T	6	566	118	189	83	35	0	0	242	1232
.	7	660	138	220	97	41	0	0	242	1397
	8	754	157	252	111	46	0	0	242	1563
3	10	943	197	315	138	58	0	0	242	1893



# Equipment Performance Bins

## Base System -- Entire House

Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Cooling:** Air conditioner Sample SampCorp ACS017100 AH017

Tmp (°F)	Bin hrs	Load (Btuh)	Off hrs	----- Stage 1 -----							----- Stage 2 -----						
				Cap (Btuh)	FL eff	FL frct	Cyc eff	Run frct	Run hrs	Elec (kWh)	Cap (Btuh)	FL eff	FL frct	Cyc eff	Run frct	Run hrs	Elec (kWh)
97	6	20984	0	17257	3.14	1.00	1.00	1.00	6	10	0	0.00	0.00	0.00	0.00	0	0
92	72	17705	0	17615	3.29	1.00	1.00	1.00	72	113	0	0.00	0.00	0.00	0.00	0	0
87	243	14427	44	17972	3.44	0.80	0.98	0.82	199	304	0	0.00	0.00	0.00	0.00	0	0
82	428	11148	157	18330	3.61	0.61	0.96	0.63	271	403	0	0.00	0.00	0.00	0.00	0	0
77	631	7869	349	18687	3.79	0.42	0.94	0.45	282	408	0	0.00	0.00	0.00	0.00	0	0
72	925	4590	684	19045	3.98	0.24	0.92	0.26	241	339	0	0.00	0.00	0.00	0.00	0	0
67	858	1312	794	19403	4.17	0.07	0.91	0.07	64	87	0	0.00	0.00	0.00	0.00	0	0
Tot	3163		2028						1135	1663						0	0

Cooling energy: 1663 kWh Fan energy (stg1 / stg2 / cont): 221 / 0 / 0 kWh Fan total (auto / cont): 221 / 221 kWh  
 Total electricity (auto / cont): 1884 / 1884 kWh  
 Load not met: 28.9 MBtu (0.1 %)

**Heating:** Gas furnace Sample SampCorp ACP035100

Tmp (°F)	Bin hrs	Load (Btuh)	Off hrs	----- Stage 1 -----							----- Stage 2 -----							----- Backup -----	
				Cap (Btuh)	FL eff	FL frct	Cyc eff	Run frct	Run hrs	Fuel (thrm)	Cap (Btuh)	FL eff	FL frct	Cyc eff	Run frct	Run hrs	Fuel (thrm)	Hrs	Fuel
62	755	4109	666	35000	0.80	0.12	1.00	0.12	89	39	0	0.00	0.00	0.00	0.00	0	0	0	0
57	688	10956	473	35000	0.80	0.31	1.00	0.31	215	94	0	0.00	0.00	0.00	0.00	0	0	0	0
52	671	17804	330	35000	0.80	0.51	1.00	0.51	341	149	0	0.00	0.00	0.00	0.00	0	0	0	0
47	665	24651	197	35000	0.80	0.70	1.00	0.70	468	205	0	0.00	0.00	0.00	0.00	0	0	0	0
42	734	31499	73	35000	0.80	0.90	1.00	0.90	661	289	0	0.00	0.00	0.00	0.00	0	0	0	0
37	708	38346	0	35000	0.80	1.00	1.00	1.00	708	310	0	0.00	0.00	0.00	0.00	0	0	0	0
32	621	45194	0	35000	0.80	1.00	1.00	1.00	621	272	0	0.00	0.00	0.00	0.00	0	0	0	0
27	362	52041	0	35000	0.80	1.00	1.00	1.00	362	158	0	0.00	0.00	0.00	0.00	0	0	0	0
22	212	58889	0	35000	0.80	1.00	1.00	1.00	212	93	0	0.00	0.00	0.00	0.00	0	0	0	0
17	101	65736	0	35000	0.80	1.00	1.00	1.00	101	44	0	0.00	0.00	0.00	0.00	0	0	0	0
12	51	72584	0	35000	0.80	1.00	1.00	1.00	51	22	0	0.00	0.00	0.00	0.00	0	0	0	0
7	13	79432	0	35000	0.80	1.00	1.00	1.00	13	6	0	0.00	0.00	0.00	0.00	0	0	0	0
2	1	86279	0	35000	0.80	1.00	1.00	1.00	1	0	0	0.00	0.00	0.00	0.00	0	0	0	0
Tot	5582		1739						3843	1681						0	0	0	0

Heating energy: 1681 thrm Fan energy (stg1 / stg2 / bu / cont): 747 / 0 / 0 / 0 kWh Fan total (auto / cont): 747 / 747 kWh  
 Total electricity (auto / cont): 747 / 747 kWh  
 Load not met: 25583.0 MBtu (16.0 %)

# Heating and Air Conditioning Economic Analysis

## For Future / Existing Home Of

Mr. and Ms. Smith  
1 Easy Lane  
Perfect, ST 12345  
555-555-5555

## Conducted By

John Contractor  
1 Cool Lane  
Perfect, ST 12345  
555-123-4567

## Wrightsoft Corporation

*Note: Actual costs and savings may differ due to weather, operating conditions, maintenance, and construction.*



**Sales Report**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**System Comparison**

<b>BASE SYSTEM</b>	
Installation Cost:	2545
Financing Cost:	242
Operating Cost:	2333
Maintenance Cost:	0

10 Year Cost  
**\$ 5120**

<b>INVESTMENT 1</b>	
Installation Cost	2545
Financing Cost:	242
Operating Cost:	1914
Maintenance Cost:	0

Payback Period: 0.0Yr 10 Year Cost  
 Return On Investment: 0.0% **\$ 4701**

<b>INVESTMENT 2</b>	
Installation Cost	2545
Financing Cost:	242
Operating Cost:	1790
Maintenance Cost:	0

Payback Period: 0.0Yr 10 Year Cost  
 Return On Investment: 0.0% **\$ 4577**

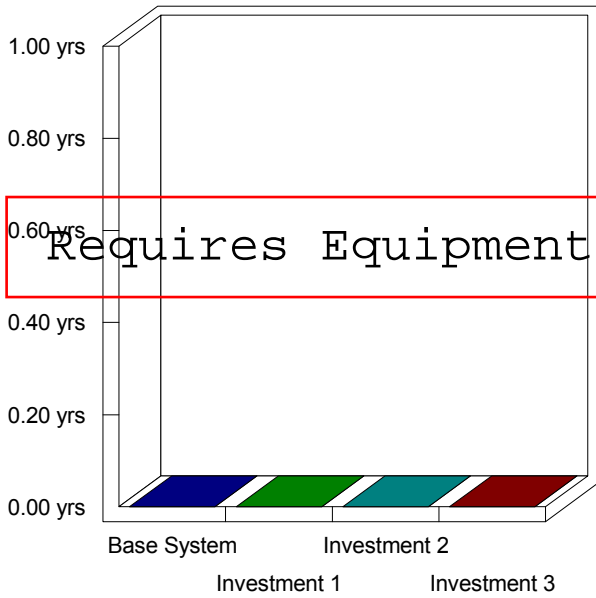
<b>INVESTMENT 3</b>	
Installation Cost	2545
Financing Cost:	242
Operating Cost:	1651
Maintenance Cost:	0

Payback Period: 0.0Yr 10 Year Cost  
 Return On Investment: 0.0% **\$ 4438**

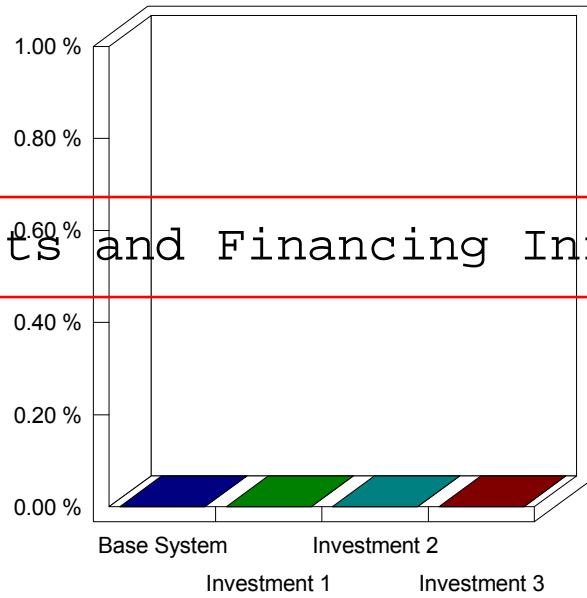


### Bar Charts

Payback

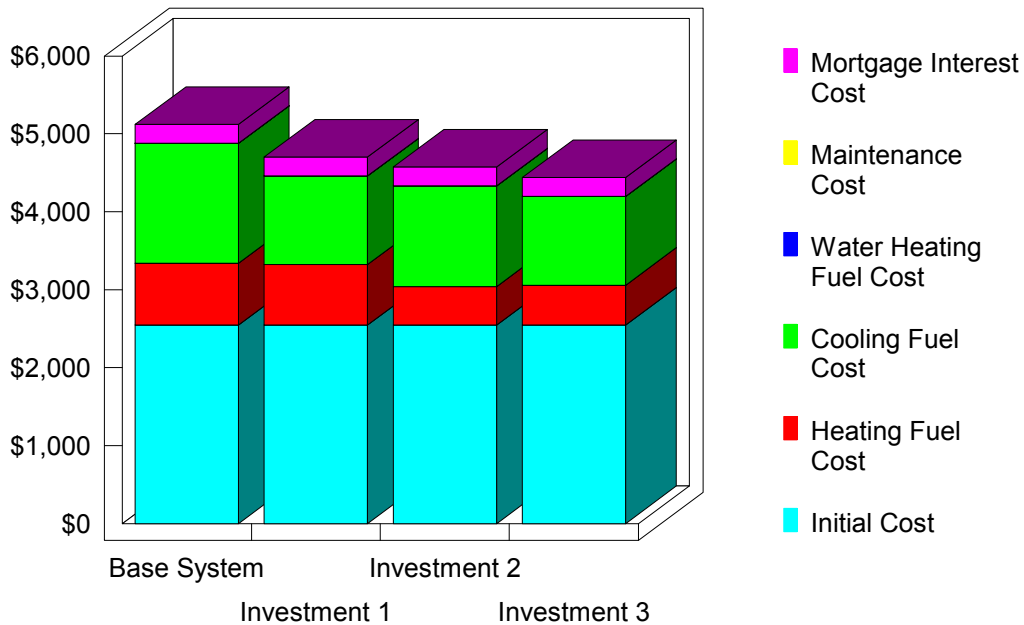


Return on Investment



Requires Equipment Costs and Financing Info

Cost Breakdown For 10 Years





**Sales Report**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
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**Base System**

Cooling: Sample SampCorp ACS017100

Installation Cost

Heating: Sample SampCorp ACP035100

2545

	Auto Fan Operation		Continuous Fan Operation	
	Units	Dollars	Units	Dollars
<b>HEATING</b>				
Natural gas (thrm)	63	76	63	76
Indoor fan (kWh)	28	3	28	3
<b>Total:</b>		<b>79</b>		<b>79</b>
<b>COOLING</b>				
Cooling unit (kWh)	1143	136	1143	136
Indoor fan (kWh)	152	18	152	18
<b>Total:</b>		<b>154</b>		<b>154</b>
<b>WATER HEATING</b>				
None	0	0	0	0
<b>Annual Cost Of Operation:</b>		<b>233</b>		<b>233</b>

**FUTURE OUTLOOK**

Year	Financing	Auto Fan Operation			Continuous Fan Operation		
		Operating	Mainten.	Accumul.	Operating	Mainten.	Accumul.
1	131	233	0	364	233	0	364
2	213	466	0	679	466	0	679
3	242	699	0	941	699	0	941
4	242	932	0	1175	932	0	1175
10	242	2333	0	2575	2333	0	2575

**WARRANTIES AND FEATURES**



**Sales Report**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Investment 1**

Cooling: Sample SampCorp ACP024140

Installation Cost

Heating: Sample SampCorp GF04492

2545

	Auto Fan Operation		Continuous Fan Operation	
	Units	Dollars	Units	Dollars
<b>HEATING</b>				
Natural gas (thrm)	61	73	61	73
Indoor fan (kWh)	37	4	37	4
<b>Total:</b>		<b>77</b>		<b>77</b>
<b>COOLING</b>				
Cooling unit (kWh)	791	94	791	94
Indoor fan (kWh)	165	20	165	20
<b>Total:</b>		<b>114</b>		<b>114</b>
<b>WATER HEATING</b>				
None	0	0	0	0
<b>Annual Cost Of Operation:</b>		<b>191</b>		<b>191</b>

**FUTURE OUTLOOK**

Year	Financing	Auto Fan Operation			Continuous Fan Operation		
		Operating	Mainten.	Accumul.	Operating	Mainten.	Accumul.
1	131	191	0	322	191	0	322
2	213	382	0	595	382	0	595
3	242	574	0	816	574	0	816
4	242	765	0	1007	765	0	1007
10	242	1914	0	2156	1914	0	2156

**WARRANTIES AND FEATURES**



**Sales Report**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
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 By: John Contractor

**Investment 2**

Heat pump: Sample SampCorp HPS017120-075

Installation Cost

Backup: Elec strip

2545

	Auto Fan Operation		Continuous Fan Operation	
	Units	Dollars	Units	Dollars
<b>HEATING</b>				
Heating elect. (kWh)	245	29	245	29
Indoor fan (kWh)	34	4	34	4
Backup (kWh)	136	16	136	16
<b>Total:</b>		<b>49</b>		<b>49</b>
<b>COOLING</b>				
Cooling unit (kWh)	935	111	935	111
Indoor fan (kWh)	151	18	151	18
<b>Total:</b>		<b>129</b>		<b>129</b>
<b>WATER HEATING</b>				
None	0	0	0	0
<b>Annual Cost Of Operation:</b>		<b>179</b>		<b>179</b>

**FUTURE OUTLOOK**

Year	Financing	Auto Fan Operation			Continuous Fan Operation		
		Operating	Mainten.	Accumul.	Operating	Mainten.	Accumul.
1	131	179	0	310	179	0	310
2	213	358	0	570	358	0	570
3	242	536	0	779	536	0	779
4	242	715	0	957	715	0	957
10	242	1790	0	2032	1790	0	2032

**WARRANTIES AND FEATURES**



**Sales Report**  
**Entire House**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Investment 3**

Heat pump: Sample SampCorp HPS024140-085

Installation Cost

Backup: Elec strip

**2545**

	Auto Fan Operation		Continuous Fan Operation	
	Units	Dollars	Units	Dollars
<b>HEATING</b>				
Heating elect. (kWh)	264	31	264	31
Indoor fan (kWh)	49	6	49	6
Backup (kWh)	116	14	116	14
<b>Total:</b>		<b>51</b>		<b>51</b>
<b>COOLING</b>				
Cooling unit (kWh)	792	94	792	94
Indoor fan (kWh)	165	20	165	20
<b>Total:</b>		<b>114</b>		<b>114</b>
<b>WATER HEATING</b>				
None	0	0	0	0
<b>Annual Cost Of Operation:</b>		<b>165</b>		<b>165</b>

**FUTURE OUTLOOK**

Year	Financing	Auto Fan Operation			Continuous Fan Operation		
		Operating	Mainten.	Accumul.	Operating	Mainten.	Accumul.
1	131	165	0	296	165	0	296
2	213	330	0	543	330	0	543
3	242	495	0	737	495	0	737
4	242	660	0	902	660	0	902
10	242	1651	0	1893	1651	0	1893

**WARRANTIES AND FEATURES**



**Equipment Summary**  
**Entire House**  
Fresh Air Corporation

Job: 456  
Date: October 1, 2006  
By: John Contractor

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## Project Information

For: Mr. and Ms. Smith  
1 Easy Lane, Perfect, ST 12345  
Phone: 555-555-5555 Fax: 555-555-5556  
Email: smiths@email.com

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### Base System:

**Cooling: Sample SampCorp ACS017100**

Coil Model: AH017  
Total cooling capacity = 17400 Btuh, 10 SEER, Sound Level = 0.0

**Heating: Sample SampCorp ACP035100**

Input = 45000 Btuh, Output = 35000 Btuh, 80 AFUE

**Warranties:**

**Features:**

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### Investment 1:

**Cooling: Sample SampCorp ACP024140**

Coil Model:  
Total cooling capacity = 24000 Btuh, 14 SEER, Sound Level = 0.0

**Heating: Sample SampCorp GF04492**

Input = 50000 Btuh, Output = 44000 Btuh, 92 AFUE

**Warranties:**

**Features:**



**Equipment Summary**  
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### Investment 2:

**Heat pump: Sample SampCorp HPS017120-075**

Coil Model: AH017

Total cooling capacity = 17200 Btuh, 12 SEER, Sound level = 0.0, 7.5 HSPF

At 17 °F: Heating Capacity = 10400 Btuh, COP = 2.10

At 47 °F: Heating Capacity = 17400 Btuh, COP = 3.16

**Backup: Elec strip**

Input = 3557 Btuh, Output = 3557 Btuh, 100 EFF

**Warranties:**

**Features:**

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### Investment 3:

**Heat pump: Sample SampCorp HPS024140-085**

Coil Model: AH024++

Total cooling capacity = 24200 Btuh, 14 SEER, Sound level = 0.0, 8.5 HSPF

At 17 °F: Heating Capacity = 14800 Btuh, COP = 2.50

At 47 °F: Heating Capacity = 23800 Btuh, COP = 3.60

**Backup: Elec strip**

Input = 3557 Btuh, Output = 3557 Btuh, 100 EFF

**Warranties:**

**Features:**



# Case Fuel Cost by End Use

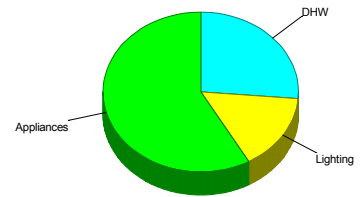
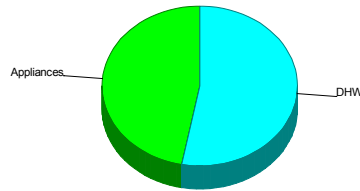
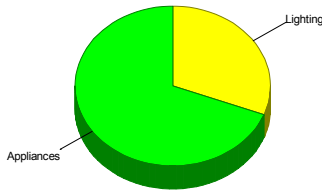
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Fresh Air Corporation

## Project Information

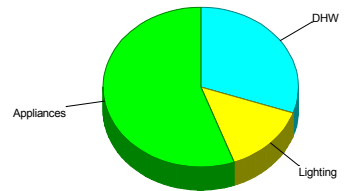
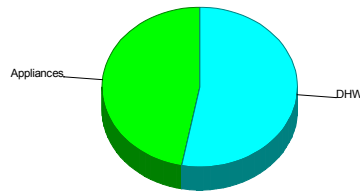
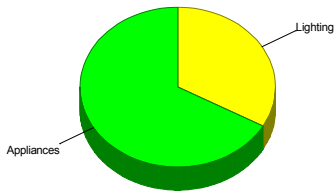
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 Email: smiths@email.com  
 By: John Contractor  
 1 Cool Lane, Perfect, ST 12345  
 Phone: 555-123-4567 Fax: 555-765-4321  
 Web: www.freshair.com Email: freshair@freshair.com

### Case 1



	Electricity			Natural gas			Total		
	\$		%	\$	%		\$	%	
Cooling	0		0.0	0	0.0		0	0.0	
Heating	0		0.0	0	0.0		0	0.0	
DHW	0		0.0	234	52.9		234	26.3	
Lighting	137		30.8	0	0.0		137	15.5	
Appliances	308		69.2	208	47.1		516	58.2	
<b>Total</b>	<b>\$ 445</b>		<b>100.0</b>	<b>\$ 441</b>	<b>100.0</b>		<b>\$ 887</b>	<b>100.0</b>	

### Case 2



	Electricity			Natural gas			Total		
	\$		%	\$	%		\$	%	
Cooling	0		0.0	0	0.0		0	0.0	
Heating	0		0.0	0	0.0		0	0.0	
DHW	0		0.0	234	52.9		234	30.2	
Lighting	110		33.1	0	0.0		110	14.2	
Appliances	222		66.9	208	47.1		429	55.6	
<b>Total</b>	<b>\$ 332</b>		<b>100.0</b>	<b>\$ 441</b>	<b>100.0</b>		<b>\$ 773</b>	<b>100.0</b>	



# Case Fuel Cost by End Use

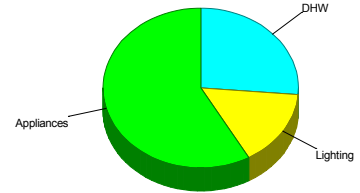
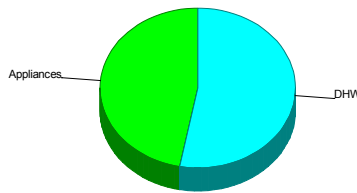
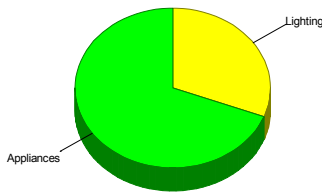
Job: 456  
 Date: October 1, 2006  
 By: John Contractor

Fresh Air Corporation

## Project Information

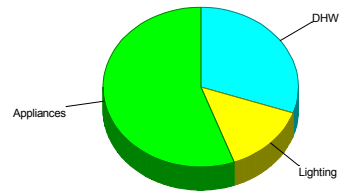
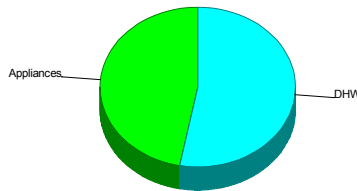
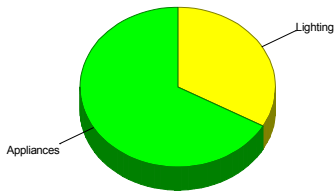
For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com  
 By: John Contractor  
 1 Cool Lane, Perfect, ST 12345  
 Phone: 555-123-4567 Fax: 555-765-4321  
 Web: www.freshair.com Email: freshair@freshair.com

### Case 3



	Electricity			Natural gas			Total		
	\$		%	\$	%		\$	%	
Cooling	0		0.0	0	0.0		0	0.0	
Heating	0		0.0	0	0.0		0	0.0	
DHW	0		0.0	234	52.9		234	26.3	
Lighting	137		30.8	0	0.0		137	15.5	
Appliances	308		69.2	208	47.1		516	58.2	
<b>Total</b>	<b>\$ 445</b>		<b>100.0</b>	<b>\$ 441</b>	<b>100.0</b>		<b>\$ 887</b>	<b>100.0</b>	

### Case 4



	Electricity			Natural gas			Total		
	\$		%	\$	%		\$	%	
Cooling	0		0.0	0	0.0		0	0.0	
Heating	0		0.0	0	0.0		0	0.0	
DHW	0		0.0	234	52.9		234	30.2	
Lighting	110		33.1	0	0.0		110	14.2	
Appliances	222		66.9	208	47.1		429	55.6	
<b>Total</b>	<b>\$ 332</b>		<b>100.0</b>	<b>\$ 441</b>	<b>100.0</b>		<b>\$ 773</b>	<b>100.0</b>	



**Case Fuel Use**  
**Case 1**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	63	88	Method	Simplified
Setpoint schedule	Htg70	Clg75	Construction quality	Average
Design TD (°F)	5	13	Fireplaces	0
Daily range	-	L	Weather file:	
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	33		Cannot open file

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Mon	Heating		Cooling	DHW		Lighting / Appliances		Electric Demand kW
	Electricity kWh	Natural gas thrm	Electricity kWh	Electricity kWh	Natural gas thrm	Electricity kWh	Natural gas thrm	
Jan	0	0	0	0	17	318	15	1.3
Feb	0	0	0	0	15	287	13	1.3
Mar	0	0	0	0	17	318	15	1.3
Apr	0	0	0	0	16	308	14	1.3
May	0	0	0	0	17	318	15	1.3
Jun	0	0	0	0	16	308	14	1.3
Jul	0	0	0	0	17	318	15	1.3
Aug	0	0	0	0	17	318	15	1.3
Sep	0	0	0	0	16	308	14	1.3
Oct	0	0	0	0	17	318	15	1.3
Nov	0	0	0	0	16	308	14	1.3
Dec	0	0	0	0	17	318	15	1.3
Tot	0	0	0	0	195	3743	174	1.3

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



**Case Fuel Use**  
**Case 2**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	63	88	Method	Simplified
Setpoint schedule	Htg70Se	Clg75Se	Construction quality	Average
Design TD (°F)	5	13	Fireplaces	0
Daily range	-	L	Weather file:	
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	33	Cannot open file	

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Mon	Heating		Cooling	DHW		Lighting / Appliances		Electric Demand kW
	Electricity kWh	Natural gas thrm	Electricity kWh	Electricity kWh	Natural gas thrm	Electricity kWh	Natural gas thrm	
Jan	0	0	0	0	17	237	15	1.1
Feb	0	0	0	0	15	214	13	1.1
Mar	0	0	0	0	17	237	15	1.1
Apr	0	0	0	0	16	229	14	1.1
May	0	0	0	0	17	237	15	1.1
Jun	0	0	0	0	16	229	14	1.1
Jul	0	0	0	0	17	237	15	1.1
Aug	0	0	0	0	17	237	15	1.1
Sep	0	0	0	0	16	229	14	1.1
Oct	0	0	0	0	17	237	15	1.1
Nov	0	0	0	0	16	229	14	1.1
Dec	0	0	0	0	17	237	15	1.1
Tot	0	0	0	0	195	2787	174	1.1

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



**Case Fuel Use**  
**Case 3**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Method	Infiltration
Outside db (°F)	63	88	Method	Simplified
Setpoint schedule	Htg70	Clg75	Construction quality	Average
Design TD (°F)	5	13	Fireplaces	0
Daily range	-	L	Weather file:	
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	33		Cannot open file

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Mon	Heating		Cooling	DHW		Lighting / Appliances		Electric Demand kW
	Electricity kWh	Natural gas thrm	Electricity kWh	Electricity kWh	Natural gas thrm	Electricity kWh	Natural gas thrm	
Jan	0	0	0	0	17	318	15	1.3
Feb	0	0	0	0	15	287	13	1.3
Mar	0	0	0	0	17	318	15	1.3
Apr	0	0	0	0	16	308	14	1.3
May	0	0	0	0	17	318	15	1.3
Jun	0	0	0	0	16	308	14	1.3
Jul	0	0	0	0	17	318	15	1.3
Aug	0	0	0	0	17	318	15	1.3
Sep	0	0	0	0	16	308	14	1.3
Oct	0	0	0	0	17	318	15	1.3
Nov	0	0	0	0	16	308	14	1.3
Dec	0	0	0	0	17	318	15	1.3
Tot	0	0	0	0	195	3743	174	1.3

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



**Case Fuel Use**  
**Case 4**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Infiltration	
Outside db (°F)	63	88	Method	Simplified
Setpoint schedule	Htg70Se	Clg75Se	Construction quality	Average
Design TD (°F)	5	13	Fireplaces	0
Daily range	-	L	Weather file:	
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	33		Cannot open file

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Mon	Heating		Cooling	DHW		Lighting / Appliances		Electric Demand kW
	Electricity kWh	Natural gas thrm	Electricity kWh	Electricity kWh	Natural gas thrm	Electricity kWh	Natural gas thrm	
Jan	0	0	0	0	17	237	15	1.1
Feb	0	0	0	0	15	214	13	1.1
Mar	0	0	0	0	17	237	15	1.1
Apr	0	0	0	0	16	229	14	1.1
May	0	0	0	0	17	237	15	1.1
Jun	0	0	0	0	16	229	14	1.1
Jul	0	0	0	0	17	237	15	1.1
Aug	0	0	0	0	17	237	15	1.1
Sep	0	0	0	0	16	229	14	1.1
Oct	0	0	0	0	17	237	15	1.1
Nov	0	0	0	0	16	229	14	1.1
Dec	0	0	0	0	17	237	15	1.1
Tot	0	0	0	0	195	2787	174	1.1

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



# Monthly Fuel Use

Fresh Air Corporation

Job: 456  
Date: October 1, 2006  
By: John Contractor

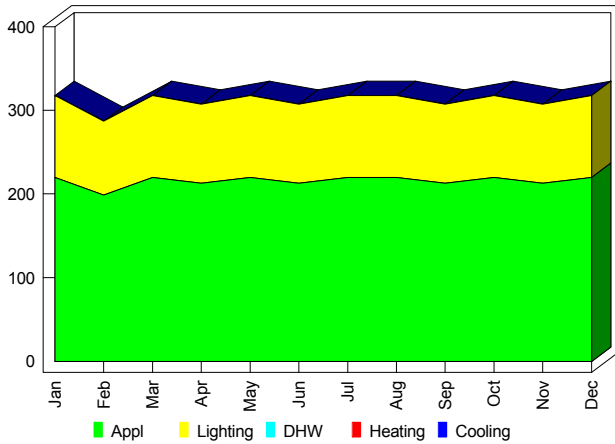
## Project Information

For: Mr. and Ms. Smith  
1 Easy Lane, Perfect, ST 12345  
Phone: 555-555-5555 Fax: 555-555-5556  
Email: smiths@email.com

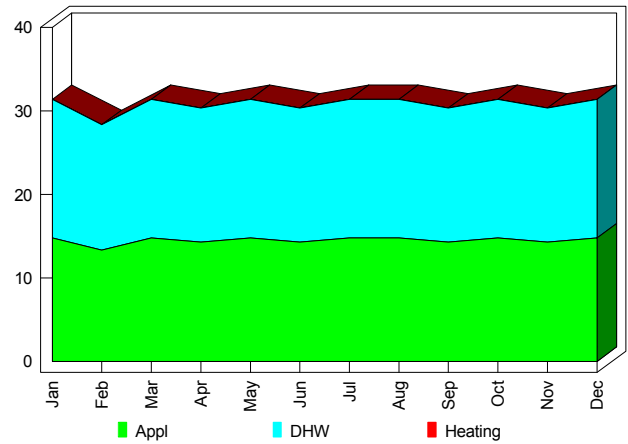
By: John Contractor  
1 Cool Lane, Perfect, ST 12345  
Phone: 555-123-4567 Fax: 555-765-4321  
Web: www.freshair.com Email: freshair@freshair.com

### Case 1

Electricity (kWh)

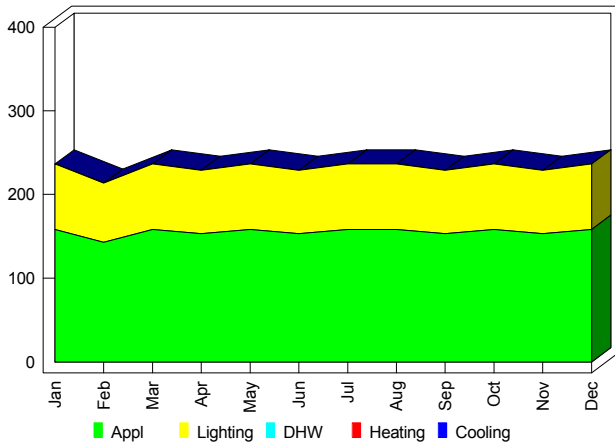


Natural gas (thrm)

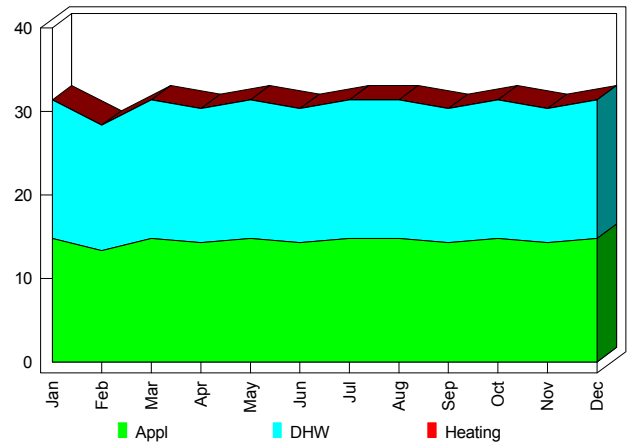


### Case 2

Electricity (kWh)



Natural gas (thrm)





# Monthly Fuel Use

Job: 456  
Date: October 1, 2006  
By: John Contractor

Fresh Air Corporation

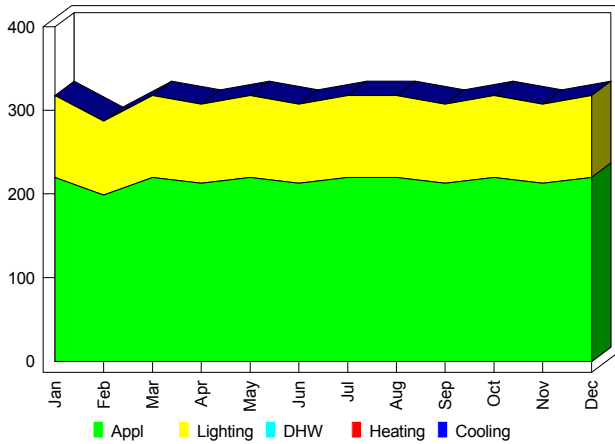
## Project Information

For: Mr. and Ms. Smith  
1 Easy Lane, Perfect, ST 12345  
Phone: 555-555-5555 Fax: 555-555-5556  
Email: smiths@email.com

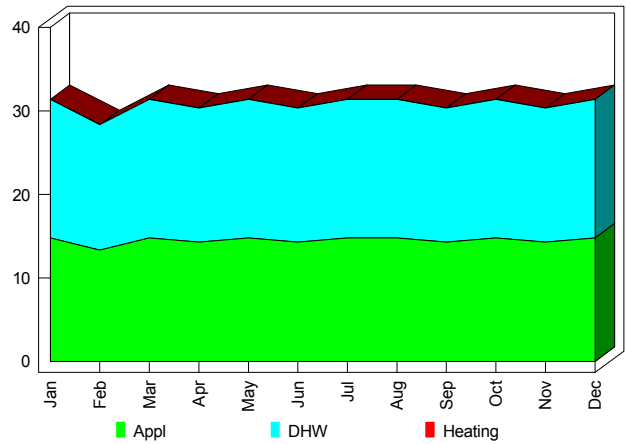
By: John Contractor  
1 Cool Lane, Perfect, ST 12345  
Phone: 555-123-4567 Fax: 555-765-4321  
Web: www.freshair.com Email: freshair@freshair.com

### Case 3

Electricity (kWh)

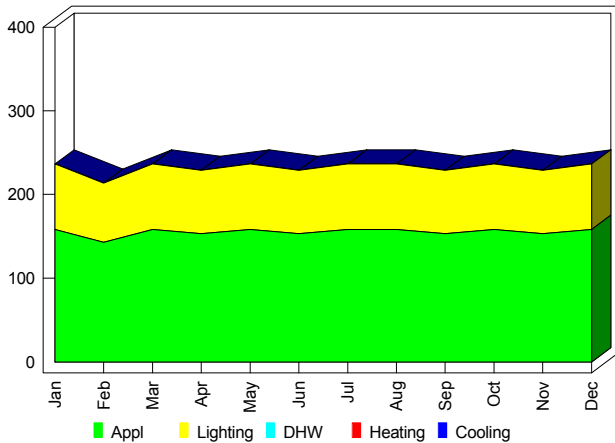


Natural gas (thrm)

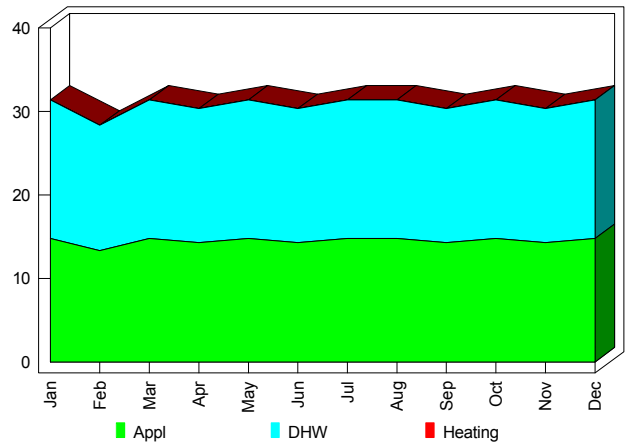


### Case 4

Electricity (kWh)



Natural gas (thrm)





# Fuel Cost Summary

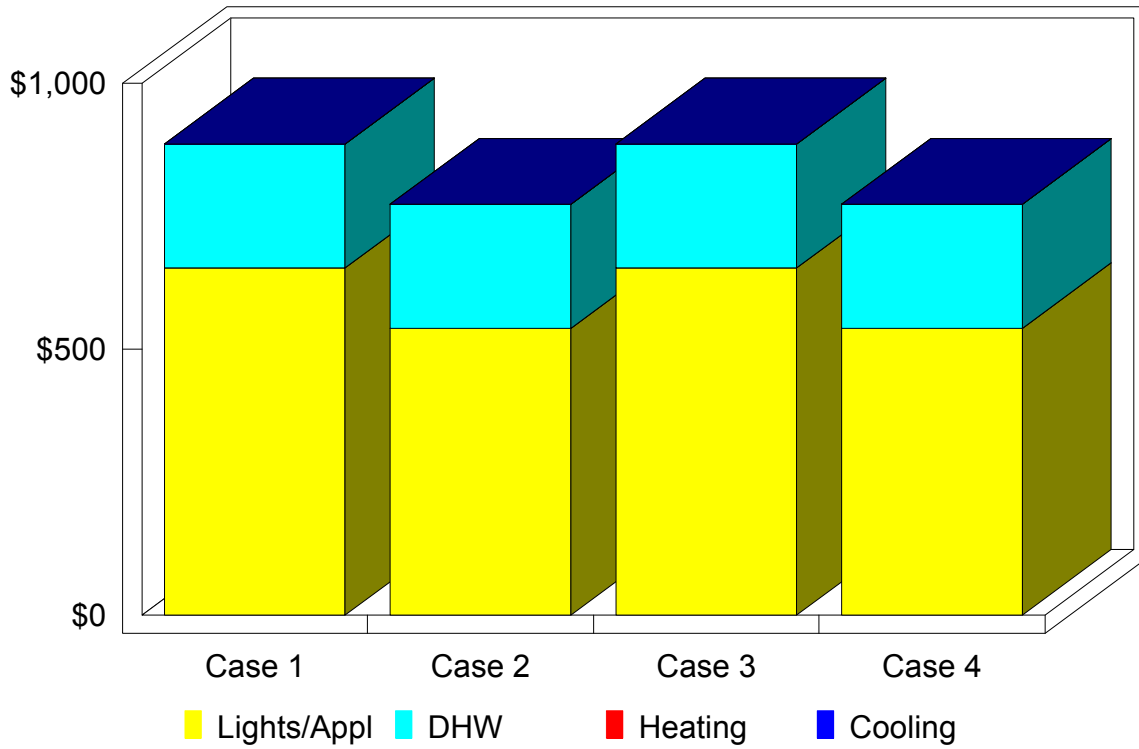
Job: 456  
 Date: October 1, 2006  
 By: John Contractor

Fresh Air Corporation

## Project Information

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

By: John Contractor  
 1 Cool Lane, Perfect, ST 12345  
 Phone: 555-123-4567 Fax: 555-765-4321  
 Web: www.freshair.com Email: freshair@freshair.com



Cooling	0	0	0	0
Heating	0	0	0	0
DHW	234	234	234	234
Lights/Appl	653	539	653	539
Total	887	773	887	773



# Monthly Fuel Cost

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

Fresh Air Corporation

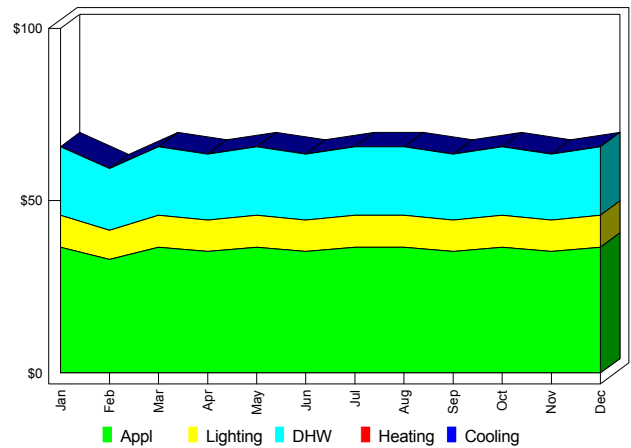
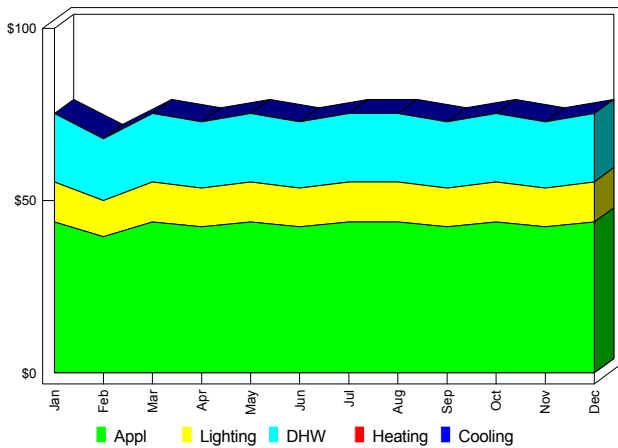
## Project Information

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

By: John Contractor  
 1 Cool Lane, Perfect, ST 12345  
 Phone: 555-123-4567 Fax: 555-765-4321  
 Web: www.freshair.com Email: freshair@freshair.com

### Case 1

### Case 2



Electricity		
Cooling	\$	0
Heating		0
DHW		0
Lighting		137
Appliances		308
Total	\$	445

Electricity		
Cooling	\$	0
Heating		0
DHW		0
Lighting		110
Appliances		222
Total	\$	332

Natural gas		
Heating	\$	0
DWH		234
Appliances		208
Total	\$	441

Natural gas		
Heating	\$	0
DWH		234
Appliances		208
Total	\$	441

Total	\$	887
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Total	\$	773
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# Monthly Fuel Cost

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

Fresh Air Corporation

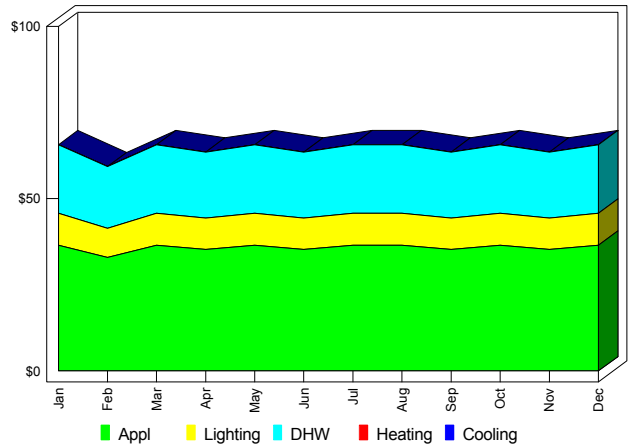
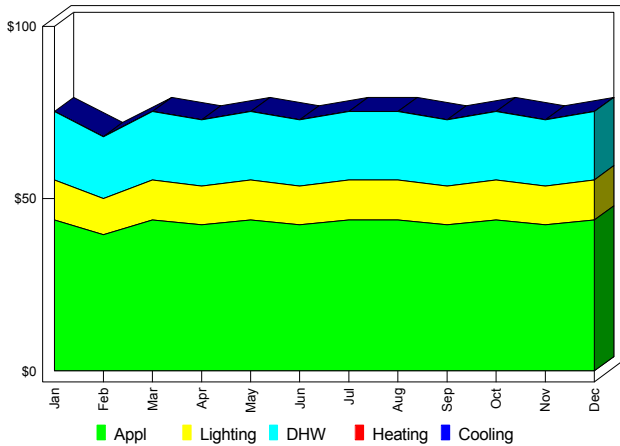
## Project Information

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

By: John Contractor  
 1 Cool Lane, Perfect, ST 12345  
 Phone: 555-123-4567 Fax: 555-765-4321  
 Web: www.freshair.com Email: freshair@freshair.com

### Case 3

### Case 4



Electricity		
Cooling	\$	0
Heating		0
DHW		0
Lighting		137
Appliances		308
Total	\$	445

Electricity		
Cooling	\$	0
Heating		0
DHW		0
Lighting		110
Appliances		222
Total	\$	332

Natural gas		
Heating	\$	0
DWH		234
Appliances		208
Total	\$	441

Natural gas		
Heating	\$	0
DWH		234
Appliances		208
Total	\$	441

Total	\$	887
-------	----	-----

Total	\$	773
-------	----	-----



**Case Fuel Cost**  
**Case 1**  
**Fresh Air Corporation**

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	63	88	Construction quality		Average
Setpoint schedule	Htg70	Clg75	Fireplaces		0
Design TD (°F)	5	13	Weather file:		
Daily range	-	L			
Inside humidity (%)	-	50			
Moisture difference (gr/lb)	-	33		Cannot open file	

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Electric rate 1: Built-in electric: Built-in residential electric rate  
 Electric rate 2:  
 Natural gas rate: Built-in gas: Built-in residential gas rate

Mon	Electricity				Natural gas			Total \$ Amt
	kWh	kW	Fuel adj	\$ Amt	thrm	Fuel adj	\$ Amt	
Jan	318		0.000	38	31	0.000	37	75
Feb	287		0.000	34	28	0.000	34	68
Mar	318		0.000	38	31	0.000	37	75
Apr	308		0.000	37	30	0.000	36	73
May	318		0.000	38	31	0.000	37	75
Jun	308		0.000	37	30	0.000	36	73
Jul	318		0.000	38	31	0.000	37	75
Aug	318		0.000	38	31	0.000	37	75
Sep	308		0.000	37	30	0.000	36	73
Oct	318		0.000	38	31	0.000	37	75
Nov	308		0.000	37	30	0.000	36	73
Dec	318		0.000	38	31	0.000	37	75
Tot	3743			445	369		441	887

Average cost: 0.12 \$/kWh      1.20 \$/thrm

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**Case Fuel Cost  
Case 2  
Fresh Air Corporation**

Job: 456  
Date: October 1, 2006  
By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
1 Easy Lane, Perfect, ST 12345  
Phone: 555-555-5555 Fax: 555-555-5556  
Email: smiths@email.com

**Design Information**

	Htg	Clg		Infiltration	
Outside db (°F)	63	88	Method		Simplified
Setpoint schedule	Htg70Se	Clg75Se	Construction quality		Average
Design TD (°F)	5	13	Fireplaces		0
Daily range	-	L	Weather file:		
Inside humidity (%)	-	50			
Moisture difference (gr/lb)	-	33		Cannot open file	

Heating: Gas furnace (? MBtuh)  
Cooling: Air conditioner (? ton)  
DHW: Gas conventional (40 gal, 0.60 EF)

Electric rate 1: Built-in electric: Built-in residential electric rate  
Electric rate 2:  
Natural gas rate: Built-in gas: Built-in residential gas rate

Mon	Electricity				Natural gas			Total \$ Amt
	kWh	kW	Fuel adj	\$ Amt	thrm	Fuel adj	\$ Amt	
Jan	237		0.000	28	31	0.000	37	66
Feb	214		0.000	25	28	0.000	34	59
Mar	237		0.000	28	31	0.000	37	66
Apr	229		0.000	27	30	0.000	36	64
May	237		0.000	28	31	0.000	37	66
Jun	229		0.000	27	30	0.000	36	64
Jul	237		0.000	28	31	0.000	37	66
Aug	237		0.000	28	31	0.000	37	66
Sep	229		0.000	27	30	0.000	36	64
Oct	237		0.000	28	31	0.000	37	66
Nov	229		0.000	27	30	0.000	36	64
Dec	237		0.000	28	31	0.000	37	66
Tot	2787			332	369		441	773

Average cost: 0.12 \$/kWh      1.20 \$/thrm

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



**Case Fuel Cost  
Case 3  
Fresh Air Corporation**

Job: 456  
Date: October 1, 2006  
By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
1 Easy Lane, Perfect, ST 12345  
Phone: 555-555-5555 Fax: 555-555-5556  
Email: smiths@email.com

**Design Information**

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	63	88	Construction quality		Average
Setpoint schedule	Htg70	Clg75	Fireplaces		0
Design TD (°F)	5	13	Weather file:		
Daily range	-	L			
Inside humidity (%)	-	50			
Moisture difference (gr/lb)	-	33		Cannot open file	

Heating: Gas furnace (? MBtuh)  
Cooling: Air conditioner (? ton)  
DHW: Gas conventional (40 gal, 0.60 EF)

Electric rate 1: Built-in electric: Built-in residential electric rate  
Electric rate 2:  
Natural gas rate: Built-in gas: Built-in residential gas rate

Mon	Electricity				Natural gas			Total \$ Amt
	kWh	kW	Fuel adj	\$ Amt	thrm	Fuel adj	\$ Amt	
Jan	318		0.000	38	31	0.000	37	75
Feb	287		0.000	34	28	0.000	34	68
Mar	318		0.000	38	31	0.000	37	75
Apr	308		0.000	37	30	0.000	36	73
May	318		0.000	38	31	0.000	37	75
Jun	308		0.000	37	30	0.000	36	73
Jul	318		0.000	38	31	0.000	37	75
Aug	318		0.000	38	31	0.000	37	75
Sep	308		0.000	37	30	0.000	36	73
Oct	318		0.000	38	31	0.000	37	75
Nov	308		0.000	37	30	0.000	36	73
Dec	318		0.000	38	31	0.000	37	75
Tot	3743			445	369		441	887
Average cost:	0.12 \$/kWh				1.20 \$/thrm			

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.



**Case Fuel Cost**  
**Case 4**  
 Fresh Air Corporation

Job: 456  
 Date: October 1, 2006  
 By: John Contractor

**Project Information**

For: Mr. and Ms. Smith  
 1 Easy Lane, Perfect, ST 12345  
 Phone: 555-555-5555 Fax: 555-555-5556  
 Email: smiths@email.com

**Design Information**

	Htg	Clg	Method	Infiltration	Simplified
Outside db (°F)	63	88	Construction quality		Average
Setpoint schedule	Htg70Se	Clg75Se	Fireplaces		0
Design TD (°F)	5	13	Weather file:		
Daily range	-	L			
Inside humidity (%)	-	50			
Moisture difference (gr/lb)	-	33		Cannot open file	

Heating: Gas furnace (? MBtuh)  
 Cooling: Air conditioner (? ton)  
 DHW: Gas conventional (40 gal, 0.60 EF)

Electric rate 1: Built-in electric: Built-in residential electric rate  
 Electric rate 2:  
 Natural gas rate: Built-in gas: Built-in residential gas rate

Mon	Electricity				Natural gas			Total \$ Amt
	kWh	kW	Fuel adj	\$ Amt	thrm	Fuel adj	\$ Amt	
Jan	237		0.000	28	31	0.000	37	66
Feb	214		0.000	25	28	0.000	34	59
Mar	237		0.000	28	31	0.000	37	66
Apr	229		0.000	27	30	0.000	36	64
May	237		0.000	28	31	0.000	37	66
Jun	229		0.000	27	30	0.000	36	64
Jul	237		0.000	28	31	0.000	37	66
Aug	237		0.000	28	31	0.000	37	66
Sep	229		0.000	27	30	0.000	36	64
Oct	237		0.000	28	31	0.000	37	66
Nov	229		0.000	27	30	0.000	36	64
Dec	237		0.000	28	31	0.000	37	66
Tot	2787			332	369		441	773

Average cost: 0.12 \$/kWh      1.20 \$/thrm

This report was generated by a computer program that calculates loads and operating costs based on specific parameters and assumes the proper application of thermal, moisture, and air barriers. The reported results are only estimates - the actual load and operating costs for your home may vary from these estimates. If you have questions or problems related to moisture or air quality, contact a qualified professional specializing in those kinds of problems.