

# 2025 Utility Allowance Study

[WWW.HECSUSA.COM](http://WWW.HECSUSA.COM)



To whom it may concern

Enclosed please find the documentation for the utility allowance modeling updates or the engineered modeling study for the following project:

Eureka Mills

Gobblers Knob

Chester, SC 29730

Each unit has been modeled with averages from all floors, inside and outside units and according to their facing directions. Unit descriptions are as follows:

- 1-Bedroom units are 759 square feet and include 1 bathroom
- 2-Bedroom units are 964 square feet and include 2 bathrooms
- 3-Bedroom units are 1197 square feet and include 2 bathrooms
- 4-Bedroom units are 1429 square feet and include 2 bathrooms

Each tenant is responsible for paying: Electric, Heating and Cooling, Refrigerator, and Range. The modeled allowanves are as follows:

1 Bedroom	\$	72.15
2 Bedroom	\$	97.39
3 Bedroom	\$	110.23
4 Bedroom	\$	122.48

The following documents are attached to help facilitate the process:

- Sample Electric bills
- Current energy rates, taxes, and tariffs as applicable from the local utility provider

Home Energy and Comfort Solutions is in no way related to: Developer, Property Owner, Property Manager

If a processing payment is required, it will be sent by Marissa Sabbak

All the best,

Steve Hart



### 1 Bedroom Utility Bill

Project	Utility Provider	Utility Provider Contact Info	Modeling Type	
Eureka Mills	Santee Cooper	800-331-7370	Engineered Consumption Method	
Gobblers Knob	2900 Opry House Road			
Chester SC 29730	Iva, SC 29655			
Charge/ Rider Description	**Multiplier per Kilowatt Hour	Kilowatts Per Hour Used	Total	
Flat Monthly Rate Charge			\$	11.96
Energy Charge	0.1293985	472.94	\$	61.20
Energy Efficiency Rider	0.00528		\$	2.50
EDIT-1 Rider	-0.0074		\$	(3.50)
			Subtotal	\$ 72.15
			Total Due	\$ 72.15



## 2 Bedroom Utility Bill

Project	Utility Provider	Utility Provider Contact Info	Modeling Type	
Eureka Mills	Santee Cooper	800-331-7370	Engineered Consumption Method	
Gobblers Knob	2900 Opry House Road			
Chester SC 29730	Iva, SC 29655			
Charge/ Rider Description	**Multiplier per Kilowatt Hour	Kilowatts Per Hour Used	Total	
Flat Monthly Rate Charge			\$	19.50
Energy Charge	0.1293985	611.98	\$	79.19
Fuel Adjustment	0.00528		\$	3.23
Demand Sales Adjustment	-0.0074		\$	(4.53)
			Subtotal	\$ 97.39
			Total Due	\$ 97.39





### 3 Bedroom Utility Bill

Project	Utility Provider	Utility Provider Contact Info	Modeling Type	
Eureka Mills	Santee Cooper	800-331-7370	Engineered Consumption Method	
Gobblers Knob	2900 Opry House Road			
Chester SC 29730	Iva, SC 29655			
Charge/ Rider Description	**Multiplier per Kilowatt Hour	Kilowatts Per Hour Used	Total	
Flat Monthly Rate Charge			\$	19.50
Energy Charge	0.1293985	712.92	\$	92.25
Fuel Adjustment	0.00528		\$	3.76
Demand Sales Adjustment	-0.0074		\$	(5.28)
Franchise Fee			Subtotal	\$ 110.23
			Total Due	\$ 110.23



## 4 Bedroom Utility Bill

Project	Utility Provider	Utility Provider Contact Info	Modeling Type	
Eureka Mills	Santee Cooper	800-331-7370	Engineered Consumption Method	
Gobblers Knob	2900 Opry House Road			
Chester SC 29730	Iva, SC 29655			
Charge/ Rider Description	**Multiplier per Kilowatt Hour	Kilowatts Per Hour Used	Total	
Flat Monthly Rate Charge			\$	19.50
Energy Charge	0.1293985	809.11	\$	104.70
Fuel Adjustment	0.00528		\$	4.27
Demand Sales Adjustment	-0.0074		\$	(5.99)
Franchise Fee			Subtotal	\$ 122.48
			Total Due	\$ 122.48

## SCHEDULE RS RESIDENTIAL SERVICE

### AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent and permanent facilities complete for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premises as the separate residential dwelling unit may be served under any applicable residential schedule as of August 1, 2024.

Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with a net metering rider, under special terms and conditions expressed in writing in the contract with the customer.

### TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

- Single-phase, 120/240 volts; or
- 3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

### RATE

<b>I.</b>	<b>Basic Customer Charge per month</b>	<b>\$11.96</b>
<b>II.</b>	<b>Energy Charge</b>	
	<b>For the first 1,000 kWh used per month, per kWh</b>	<b>12.5686¢</b>
	<b>For all over 1,000 kWh used per month, per kWh</b>	<b>13.2937¢</b>

### RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

- Leaf No. 62      Energy Efficiency Rider
- Leaf No. 67      EDIT-1 Rider

### ADJUSTMENTS FOR FUEL, VARIABLE ENVIRONMENTAL, AVOIDED CAPACITY AND DISTRIBUTED ENERGY RESOURCE PROGRAM COSTS

The cost of fuel, the variable environmental cost, avoided capacity cost of the Public Utilities Regulatory Policies Act of 1978 ("PURPA") purchased power, and Distributed Energy Resource Program ("DERP") cost is incorporated as a part of, and will apply to all service supplied under, this Schedule. Additionally, the Distributed Energy Resource Program Fixed Monthly Leaf 50C charge shall be added to the monthly bill for each agreement for service under this schedule as outlined on Leaf 50C.

### SALES TAX AND MUNICIPAL FEES

Any applicable sales tax, municipal service agreement fee, business license fee or other fee assessed by or remitted to a state or local government authority will be added to the charges determined above.

**SCHEDULE RS  
RESIDENTIAL SERVICE**

**PAYMENT**

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one and one-half percent (1 1/2%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

**CONTRACT PERIOD**

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

## SUMMARY OF RIDER ADJUSTMENTS

The following is a summary of Rider Adjustments that must be added to the bill calculated on the applicable rate schedule in order to compute the bill. The factors shown below include revenue-related taxes and regulatory fees. More specific information concerning these Riders is contained in the applicable Rider listed below.

<b><u>RESIDENTIAL SERVICE (RS, RE, ES, RT, RB, R-STOU, RSTC, RETC)</u></b>	<b><u>cents/kWh</u></b>	<b><u>Effective Date</u></b>
Energy Efficiency Rider	0.5280	1/1/25
EDIT-1 Rider	-0.7407	6/1/25
<b>TOTAL cents/kWh</b>	<b>-0.2127</b>	

<b><u>GENERAL SERVICE (SGS, BC, LGS, TS, OPT, MP, PG, HP)</u></b>	<b><u>cents/kWh</u></b>	<b><u>Effective Date</u></b>
Energy Efficiency Rider (Energy Efficiency) *	0.5222	1/1/25
Energy Efficiency Rider (Demand Side Management) *	0.1596	1/1/25
EDIT-1 Rider	-0.3980	6/1/25
<b>TOTAL cents/kWh</b>	<b>0.2838</b>	


<b><u>LIGHTING SCHEDULES (OL, PL, NL)</u></b>	<b><u>cents/kWh</u></b>	<b><u>Effective Date</u></b>
Energy Efficiency Rider (Energy Efficiency)	0.0000	1/1/25
Energy Efficiency Rider (Demand Side Management)	0.0000	1/1/25
EDIT-1 Rider	-2.7247	6/1/25
<b>TOTAL cents/kWh</b>	<b>-2.7247</b>	

<b><u>INDUSTRIAL SERVICE (I, OPT, MP, PG, HP)</u></b>	<b><u>cents/kWh</u></b>	<b><u>Effective Date</u></b>
Energy Efficiency Rider (Energy Efficiency) *	0.5222	1/1/25
Energy Efficiency Rider (Demand Side Management) *	0.1596	1/1/25
EDIT-1 Rider	-0.2766	6/1/25
<b>TOTAL cents/kWh</b>	<b>0.4052</b>	

\* Qualifying customers who have opted out of the Company's Energy Efficiency and/or Demand Side Management Programs are not subject to the applicable Energy Efficiency Rider charges based on the individual customer's opt-out election. Refer to Rider EE to determine the Rider EE amount, if any, applicable to customers who have opted out.

# How to Read Your Bill | A Quick Guide to Your Monthly Statement

- 1 Account holder info:** Account holder's name and the address where service is provided.
- 2 Bill-specific info:** The date your bill is mailed, billing period, number of days included in the billing period and your account number.
- 3 Billing summary:** This section shows the amount due from your previous bill, followed by any activity since your last billing statement including payments, charges, adjustments, applicable fees and taxes. Together, these create your total amount due.
- 4 Usage snapshot:** Includes month-over-month energy usage data and average outdoor temperatures for the past year. The chart compares your usage from the current month to the corresponding month from the previous year, along with your total usage for the year (if applicable) and average monthly usage.
- 5 Messages for you:** Each month, check the right side of your bill, along with any bill inserts, for important messages.
- 6 Current meter reading for this statement:** Your energy usage is the difference between your actual (current) and previous meter readings. Electric consumption is measured in kilowatt-hours (kWh).
- 7 Pay by mail option:** To pay by mail, this removable payment stub should be returned with a check or money order in the supplied remittance envelope.
- 8 Amount due, including additional contribution options:** This section shows current amount due, billing due date and related payment messages.
  - Share the Light Fund® helps South Carolina residents in need of energy bill assistance and is funded by our customers, employees and shareholders. If you would like to help others in your community, add a contribution to your monthly payment.



duke-energy.com  
800.777.9898

### Your Energy Bill

**1** Service address  
SALLY SAMPLE  
123 SAMPLE ST  
CITY SC 00000

**2** Bill date Jun 14, 2024  
For service May 15 - Jun 12  
29 days

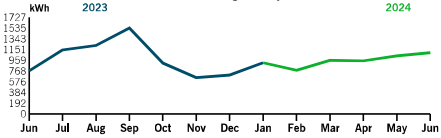
Account number **9999 9999 9999**

### Billing summary

Previous Amount Due	\$151.60
Payment Received May 31	-151.60
Current Electric Charges	168.71
Taxes	8.44
<b>Total Amount Due Jul 09</b>	<b>\$177.15</b>

### Your usage snapshot

Electric usage history




Average temperature in degrees

73°	80°	79°	73°	64°	53°	48°	42°	51°	57°	64°	72°	79°
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	Current Month	Jun 2023	12-Month Usage	Avg Monthly Usage
Electric (kWh)	1,097	769	11,907	992
12-month usage based on most recent history				

Current electric usage for meter number 12345678	
Actual reading on Jun 12	77142
Previous reading	- 76045
Energy Used	1,097 kWh
Billed kWh	1,097,000 kWh

Please return this portion with your payment. Thank you for your business.



Duke Energy Return Mail  
PO Box 1090  
Charlotte, NC 28201-1090

Account number  
**9999 9999 9999**

**SALLY SAMPLE**  
123 SAMPLE ST  
CITY SC 00000

**Mail your payment at least 7 days before the due date or pay instantly at duke-energy.com/billing. Late payments are subject to a 1.5% late charge.**

Amount due	
<b>\$177.15</b> by Jul 9	After Jul 9, a late charge will apply.

\$ \_\_\_\_\_ \$ \_\_\_\_\_  
Add here, to help others with a contribution to Share the Light Amount enclosed

Duke Energy Payment Processing  
PO Box 1094  
Charlotte, NC 28201-1094

# How to Read Your Bill (continued)

## 9 Bill calculation charges:

The **Basic Customer Charge** is a fixed monthly amount not related to your electric usage and covers the costs of providing service to your location, maintaining customer records, and billing and other transactions affecting your account.

The **Energy Charge** is the amount of electricity consumed during the billing period as measured in kWh.

The **Fixed Monthly Leaf 50C Charge** is a charge outside of the standard base rates that recovers the cost of the Distributed Energy Resource Program, which promotes the installation of renewable resources in South Carolina.

**Riders** are charges outside the standard base rates that recover the costs of specific programs, credits and purchases. **Summary of Rider Adjustments** is a compilation of riders that are calculated using the month's billed kWh usage. These adjustments include: demand-side management and energy efficiency program costs, as well as a credit for tax savings.

- 10 **Taxes included in the calculation of your bill:** Some customers may see a Municipal Fee on their utility bills. Municipal Fees, added only when applicable, will incorporate any sales tax, municipal service agreement fees, business license fees or other fees assessed by state or local government authorities.



Account number 9999 9999 9999

## 9 Billing details - Electric

Billing Period - May 15 24 to Jun 12 24

Meter - 12345678

Basic Customer Charge	\$11.96
Energy Charge	159.80
Fixed Monthly Leaf 50C Charge	1.00
Summary of Rider Adjustments	-4.05

**Total Current Charges \$168.71**

Your current rate is Residential Service (RS).

For a complete listing of all South Carolina rates and riders, visit [duke-energy.com/rates](http://duke-energy.com/rates).

A rider is a mechanism used to recover costs or credit customers for programs, purchases or regional policy initiatives that are outside of standard base rates. The **Summary of Rider Adjustments** line item found in the Billing Details includes: demand-side management and energy efficiency program costs, as well as a credit for tax savings. For additional detail, please visit [duke-energy.com/rates](http://duke-energy.com/rates) to view the Summary of Rider Adjustments tariff found within the **Index of Rate Schedules** tab. Each of the individual rider tariffs are located under the Retail Riders heading.

## 10 Billing details - Taxes

Municipal Fee	\$8.44
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**Total Taxes \$8.44**



For additional information about your bill, visit our website.  
[duke-energy.com/BillUpdates](http://duke-energy.com/BillUpdates)



# Fuel Summary

**Property**

Gobblers Knob  
1BR F1  
Chester, SC 29730  
Model: 1BR F1

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1289 Eureka Mills  
SDH 1289

## Annual Energy Cost

Electric	\$867
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## Annual End-Use Cost

Heating	\$139
Cooling	\$51
Water Heating	\$216
Lights & Appliances	\$318
Onsite Generation	-\$0
Service Charges	\$144
Total	\$867

## Annual End-Use Consumption

Heating [Electric kWh]	1,072.7
Cooling [Electric kWh]	393.5
Hot Water [Electric kWh]	1,667.0
Lights & Appliances [Natural Gas Therms]	25.3
Lights & Appliances [Electric kWh]	2,461.1
Total [Natural Gas Therms]	25.3
Total [Electric kWh]	5,594.3
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.39
Peak Summer kW	1.00

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 1BR F1 Chester, SC 29730 Model: 1BR F1	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1289 Eureka Mills SDH 1289		

General Building Information	
Number Of Bedrooms: 1	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 759	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 8,349
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 1
Model: 1BR F1	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Slab									
Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing	
Slab	UNINSULATED	27	On Grade	2	0	759.0 ft²	Exposed Exterior	Conditioned Space	

Slab Library List									
Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value	
UNINSULATED	Wood Frame / Other	No	0	0	0	Yes	No	0.00	

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	116.0 ft²	Conditioned Space (Adiabatic)	22.00
Corridor Band 2x6	R 19.0	58.0 ft²	Conditioned Space (Adiabatic)	19.00
Exterior Band	R 19.0	116.0 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Common Wall	LDG Common Wall	Medium	0.75	216.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Common Wall	LDG Common Wall	Medium	0.75	306.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	117.8 ft²	Conditioned Space (Adiabatic)	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	45.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Conditioned Space (Adiabatic)	16.805

Glazing										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	1

# Building Summary

Property		Project & Plan			Organization			Inspection Status		
Gobblers Knob 1BR F1 Chester, SC 29730 Model: 1BR F1		SDH 1289 Eureka Mills SDH 1289			Home Energy and Comfort Solution: Steve Hart			Results are projected		
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
Patio Double Door	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northeast	40.0 ft²	

Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Right Corridor Wall		0.9	0.75	Medium	40.0 ft²	Conditioned Space (Adiabatic)	6.25

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	759	No	No	-	Medium	0.75	759.0 ft²	Conditioned Space (Adiabatic)

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

# Building Summary

**Property**  
Gobblers Knob  
1BR F1  
Chester, SC 29730  
Model: 1BR F1

**Project & Plan**  
SDH 1289 Eureka Mills  
SDH 1289

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**  
Gobblers Knob  
1BR F1  
Chester, SC 29730  
Model: 1BR F1

**Project & Plan**  
SDH 1289 Eureka Mills  
SDH 1289

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Dishwasher		Appliances and Controls	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
1BR F2  
Chester, SC 29730  
Model: 1BR F2

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1290 Eureka Mills  
SDH 1290

## Annual Energy Cost

Electric	\$870
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## Annual End-Use Cost

Heating	\$135
Cooling	\$58
Water Heating	\$215
Lights & Appliances	\$318
Onsite Generation	-\$0
Service Charges	\$144
Total	\$870

## Annual End-Use Consumption

Heating [Electric kWh]	1,041.3
Cooling [Electric kWh]	446.6
Hot Water [Electric kWh]	1,665.1
Lights & Appliances [Natural Gas Therms]	25.3
Lights & Appliances [Electric kWh]	2,461.1
Total [Natural Gas Therms]	25.3
Total [Electric kWh]	5,614.1
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.32
Peak Summer kW	0.97

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 1BR F2 Chester, SC 29730 Model: 1BR F2	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1290 Eureka Mills SDH 1290		

General Building Information	
Number Of Bedrooms: 1	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 759	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 8,349
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 2
Model: 1BR F2	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Above	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	0.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	116.0 ft²	Conditioned Space (Adiabatic)	22.00
Corridor Band 2x6	R 19.0	58.0 ft²	Conditioned Space (Adiabatic)	19.00
Exterior Band	R 19.0	116.0 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Common Wall	LDG Common Wall	Medium	0.75	216.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Common Wall	LDG Common Wall	Medium	0.75	306.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	117.8 ft²	Conditioned Space (Adiabatic)	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	45.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Conditioned Space (Adiabatic)	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

**Property**  
Gobblers Knob  
1BR F2  
Chester, SC 29730  
Model: 1BR F2

**Project & Plan**  
SDH 1290 Eureka Mills  
SDH 1290

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Right Corridor Wall		0.9	0.75	Medium	40.0 ft²	Conditioned Space (Adiabatic)	6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	759	No	No	-	Medium	0.75	759.0 ft²	Conditioned Space (Adiabatic)

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

### Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

### Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

### Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

# Building Summary

**Property**  
Gobblers Knob  
1BR F2  
Chester, SC 29730  
Model: 1BR F2

**Project & Plan**  
SDH 1290 Eureka Mills  
SDH 1290

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes



# Building Summary

<b>Property</b> Gobblers Knob 1BR F2 Chester, SC 29730 Model: 1BR F2	<b>Project &amp; Plan</b> SDH 1290 Eureka Mills SDH 1290	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
<b>Dishwasher</b>		<b>Appliances and Controls</b>	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
1BR F3  
Chester, SC 29730  
Model: 1BR F3

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1291 Eureka Mills  
SDH 1291

## Annual Energy Cost

Electric	\$896
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## Annual End-Use Cost

Heating	\$156
Cooling	\$63
Water Heating	\$216
Lights & Appliances	\$318
Onsite Generation	-\$0
Service Charges	\$144
Total	\$896

## Annual End-Use Consumption

Heating [Electric kWh]	1,202.5
Cooling [Electric kWh]	487.8
Hot Water [Electric kWh]	1,666.0
Lights & Appliances [Natural Gas Therms]	25.3
Lights & Appliances [Electric kWh]	2,461.1
Total [Natural Gas Therms]	25.3
Total [Electric kWh]	5,817.4
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.44
Peak Summer kW	0.95

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 1BR F3 Chester, SC 29730 Model: 1BR F3	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1291 Eureka Mills SDH 1291		

General Building Information	
Number Of Bedrooms: 1	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 759	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 6,831
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 3
Model: 1BR F3	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	0.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	116.0 ft²	Conditioned Space (Adiabatic)	22.00
Corridor Band 2x6	R 19.0	58.0 ft²	Conditioned Space (Adiabatic)	19.00
Exterior Band	R 19.0	116.0 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Common Wall	LDG Common Wall	Medium	0.75	216.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Common Wall	LDG Common Wall	Medium	0.75	306.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	117.8 ft²	Conditioned Space (Adiabatic)	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	45.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Conditioned Space (Adiabatic)	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

<b>Property</b> Gobblers Knob 1BR F3 Chester, SC 29730 Model: 1BR F3	<b>Project &amp; Plan</b> SDH 1291 Eureka Mills SDH 1291	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Right Corridor Wall		0.9	0.75	Medium	40.0 ft²	Conditioned Space (Adiabatic)	6.25

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Attic	R-38 Blown, Attic	873	No	No	-	Medium	0.75	759.0 ft²	Attic

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-38 Blown, Attic	No	38.121

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

Equipment Type: ENL 40- .90EF	
Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

# Building Summary

## Property

Gobblers Knob  
1BR F3  
Chester, SC 29730  
Model: 1BR F3

## Project & Plan

SDH 1291 Eureka Mills  
SDH 1291

## Organization

Home Energy and Comfort Solution:  
Steve Hart

## Inspection Status

Results are projected

### Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

### Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

### Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

### Dishwasher

Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

### Appliances and Controls

Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

# Building Summary

<b>Property</b> Gobblers Knob 1BR F3 Chester, SC 29730 Model: 1BR F3	<b>Project &amp; Plan</b> SDH 1291 Eureka Mills SDH 1291	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
2BR F1  
Chester, SC 29730  
Model: 2BR F1

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1292 Eureka Mills  
SDH 1292

## Annual Energy Cost

Electric	\$1,081
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## Annual End-Use Cost

Heating	\$214
Cooling	\$77
Water Heating	\$269
Lights & Appliances	\$377
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,081

## Annual End-Use Consumption

Heating [Electric kWh]	1,655.2
Cooling [Electric kWh]	592.5
Hot Water [Electric kWh]	2,081.1
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	2,913.1
Total [Natural Gas Therms]	28.0
Total [Electric kWh]	7,242.0
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.89
Peak Summer kW	1.31

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 2BR F1 Chester, SC 29730 Model: 2BR F1	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1292 Eureka Mills SDH 1292		

General Building Information	
Number Of Bedrooms: 2	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 964	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 10,604
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 1
Model: 2BR F1	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Slab									
Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing	
Slab	UNINSULATED	40.083	On Grade	2	0	964.0 ft²	Exposed Exterior	Conditioned Space	

Slab Library List									
Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value	
UNINSULATED	Wood Frame / Other	No	0	0	0	Yes	No	0.00	

Rim Joist					
Name	Library Type	Surface Area	Location	Effective Insulation R-value	
Common Band	R 22	58.0 ft²	Conditioned Space (Adiabatic)	22.00	
Exterior Band	R 19.0	207.3 ft²	Exposed Exterior	19.00	

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	311.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	261.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	261.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	95.3 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	49.5 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805



# Building Summary

<b>Property</b> Gobblers Knob 2BR F1 Chester, SC 29730 Model: 2BR F1	<b>Project &amp; Plan</b> SDH 1292 Eureka Mills SDH 1292	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²	

Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value	
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft² Exposed Exterior		6.25	

Roof Insulation										
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location	
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	964	No	No	-	Medium	0.75	964.0 ft²	Conditioned Space (Adiabatic)	

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

# Building Summary

**Property**  
Gobblers Knob  
2BR F1  
Chester, SC 29730  
Model: 2BR F1

**Project & Plan**  
SDH 1292 Eureka Mills  
SDH 1292

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

### Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

# Building Summary

<b>Property</b> Gobblers Knob 2BR F1 Chester, SC 29730 Model: 2BR F1	<b>Project &amp; Plan</b> SDH 1292 Eureka Mills SDH 1292	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Clothes Washer	
Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
2BR F2  
Chester, SC 29730  
Model: 2BR F2

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1293 Eureka Mills  
SDH 1293

## Annual Energy Cost

Electric	\$1,085
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## Annual End-Use Cost

Heating	\$209
Cooling	\$86
Water Heating	\$269
Lights & Appliances	\$377
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,085

## Annual End-Use Consumption

Heating [Electric kWh]	1,614.9
Cooling [Electric kWh]	666.9
Hot Water [Electric kWh]	2,079.5
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	2,913.1
Total [Natural Gas Therms]	28.0
Total [Electric kWh]	7,274.4
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.86
Peak Summer kW	1.27

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 2BR F2 Chester, SC 29730 Model: 2BR F2	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1293 Eureka Mills SDH 1293		

General Building Information	
Number Of Bedrooms: 2	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 964	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 10,604
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 2
Model: 2BR F2	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	0.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	58.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	207.3 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	311.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	261.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	261.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	95.3 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	49.5 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

**Property**  
Gobblers Knob  
2BR F2  
Chester, SC 29730  
Model: 2BR F2

**Project & Plan**  
SDH 1293 Eureka Mills  
SDH 1293

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	964	No	No	-	Medium	0.75	964.0 ft²	Conditioned Space (Adiabatic)

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

# Mechanicals, Lights & Water

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40-.90EF		0%	0%	100%	Conditioned Space

# Building Summary

**Property**  
Gobblers Knob  
2BR F2  
Chester, SC 29730  
Model: 2BR F2

**Project & Plan**  
SDH 1293 Eureka Mills  
SDH 1293

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**

Gobblers Knob  
2BR F2  
Chester, SC 29730  
Model: 2BR F2

**Project & Plan**

SDH 1293 Eureka Mills  
SDH 1293

**Organization**

Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**

Results are projected

Dishwasher		Appliances and Controls	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes



# Fuel Summary

**Property**

Gobblers Knob  
2BR F3  
Chester, SC 29730  
Model: 2BR F3

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1294 Eureka Mills  
SDH 1294

## Annual Energy Cost

Electric	\$1,116
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## Annual End-Use Cost

Heating	\$234
Cooling	\$92
Water Heating	\$269
Lights & Appliances	\$377
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,116

## Annual End-Use Consumption

Heating [Electric kWh]	1,808.2
Cooling [Electric kWh]	713.3
Hot Water [Electric kWh]	2,080.1
Lights & Appliances [Natural Gas Therms]	28.0
Lights & Appliances [Electric kWh]	2,913.1
Total [Natural Gas Therms]	28.0
Total [Electric kWh]	7,514.8
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	1.91
Peak Summer kW	1.26

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 2BR F3 Chester, SC 29730 Model: 2BR F3	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1294 Eureka Mills SDH 1294		

General Building Information	
Number Of Bedrooms: 2	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 964	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 8,676
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 3
Model: 2BR F3	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	0.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	58.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	207.3 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	311.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	261.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	261.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	95.3 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	49.5 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

<b>Property</b> Gobblers Knob 2BR F3 Chester, SC 29730 Model: 2BR F3	<b>Project &amp; Plan</b> SDH 1294 Eureka Mills SDH 1294	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Attic	R-38 Blown, Attic	1,109	No	No	-	Medium	0.75	964.0 ft²	Attic

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-38 Blown, Attic	No	38.121

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	Residences at Sawmill 1BR		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

Equipment Type: ENL 40- .90EF	
Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

# Building Summary

## Property

Gobblers Knob  
2BR F3  
Chester, SC 29730  
Model: 2BR F3

## Project & Plan

SDH 1294 Eureka Mills  
SDH 1294

## Organization

Home Energy and Comfort Solution:  
Steve Hart

## Inspection Status

Results are projected

### Equipment Type: Residences at Sawmill 1BR

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	17.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	1 Adjusted Efficiency
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	17.4

### Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

### Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

### Dishwasher

Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

### Appliances and Controls

Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

# Building Summary

<b>Property</b> Gobblers Knob 2BR F3 Chester, SC 29730 Model: 2BR F3	<b>Project &amp; Plan</b> SDH 1294 Eureka Mills SDH 1294	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
3BR F1  
Chester, SC 29730  
Model: 3BR F1

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1295 Eureka Mills  
SDH 1295

## Annual Energy Cost

Electric	\$1,240
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## Annual End-Use Cost

Heating	\$237
Cooling	\$101
Water Heating	\$318
Lights & Appliances	\$440
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,240

## Annual End-Use Consumption

Heating [Electric kWh]	1,833.7
Cooling [Electric kWh]	782.9
Hot Water [Electric kWh]	2,458.5
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,396.8
Total [Natural Gas Therms]	30.7
Total [Electric kWh]	8,471.9
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.33
Peak Summer kW	1.61

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

**Property**  
Gobblers Knob  
3BR F1  
Chester, SC 29730  
Model: 3BR F1

**Organization**  
Home Energy and Comfort Solutions,  
Steve Hart

**Inspection Status**  
Results are projected

**Builder**

SDH 1295 Eureka Mills  
SDH 1295

## General Building Information

Number Of Bedrooms: 3	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,197	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 13,167
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 1
Model: 3BR F1	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

### Slab

Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing
Slab	UNINSULATED	75	On Grade	2	0	1,197.0 ft²	Exposed Exterior	Conditioned Space

### Slab Library List

Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value
UNINSULATED	Wood Frame / Other	No	0	0	0	Yes	No	0.00

### Rim Joist

Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	70.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	225.5 ft²	Exposed Exterior	19.00

### Wall

Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	326.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	615.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	297.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	51.8 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	110.3 ft²	Exposed Exterior	16.805

# Building Summary

<b>Property</b> Gobblers Knob 3BR F1 Chester, SC 29730 Model: 3BR F1	<b>Project &amp; Plan</b> SDH 1295 Eureka Mills SDH 1295	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Double Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²	
Single Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²	
Triple Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	36.0 ft²	

Glazing Library List			
Name	Shgc	U-factor	
.30 / .30	0.3	0.300	
.30 / .30	0.3	0.300	

Opaque Door										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value	
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft² Exposed Exterior		6.25	

Roof Insulation										
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location	
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,197	No	No	-	Medium	0.75	1,197.0 ft²	Conditioned Space (Adiabatic)	

Roof Insulation Library List			
Name	Has Radiant Barrier	Effective R-value	
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884	

Whole House Infiltration			
Infiltration	Measurement Type	Shelter Class	
5 ACH at 50 Pa	Blower-door tested	4	

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		



# Building Summary

**Property**  
Gobblers Knob  
3BR F1  
Chester, SC 29730  
Model: 3BR F1

**Project & Plan**  
SDH 1295 Eureka Mills  
SDH 1295

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	23kc/23kh 15.2seer2 7.8hspf2		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: 23kc/23kh 15.2seer2 7.8hspf2

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	23
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2 COP
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	23

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

# Building Summary

<b>Property</b> Gobblers Knob 3BR F1 Chester, SC 29730 Model: 3BR F1	<b>Project &amp; Plan</b> SDH 1295 Eureka Mills SDH 1295	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Clothes Dryer	
Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

Clothes Washer	
Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
3BR F2  
Chester, SC 29730  
Model: 3BR F2

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1296 Eureka Mills  
SDH 1296

## Annual Energy Cost

Electric	\$1,237
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## Annual End-Use Cost

Heating	\$221
Cooling	\$115
Water Heating	\$318
Lights & Appliances	\$440
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,237

## Annual End-Use Consumption

Heating [Electric kWh]	1,710.4
Cooling [Electric kWh]	889.2
Hot Water [Electric kWh]	2,456.2
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,396.8
Total [Natural Gas Therms]	30.7
Total [Electric kWh]	8,452.5
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.25
Peak Summer kW	1.56

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 3BR F2 Chester, SC 29730 Model: 3BR F2	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1296 Eureka Mills SDH 1296		

General Building Information	
Number Of Bedrooms: 3	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,197	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 13,167
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 2
Model: 3BR F2	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	1,197.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	70.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	225.5 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	326.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	615.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	297.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	51.8 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	110.3 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

<b>Property</b> Gobblers Knob 3BR F2 Chester, SC 29730 Model: 3BR F2			<b>Project &amp; Plan</b> SDH 1296 Eureka Mills SDH 1296			<b>Organization</b> Home Energy and Comfort Solution: Steve Hart			<b>Inspection Status</b> Results are projected	
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Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Single Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²
Triple Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	36.0 ft²

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,197	No	No	-	Medium	0.75	1,197.0 ft²	Conditioned Space (Adiabatic)

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

# Mechanicals, Lights & Water

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	23kc/23kh 15.2seer2 7.8hspf2		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

# Building Summary

**Property**  
Gobblers Knob  
3BR F2  
Chester, SC 29730  
Model: 3BR F2

**Project & Plan**  
SDH 1296 Eureka Mills  
SDH 1296

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: 23kc/23kh 15.2seer2 7.8hspf2

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	23
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2 COP
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	23

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**  
Gobblers Knob  
3BR F2  
Chester, SC 29730  
Model: 3BR F2

**Project & Plan**  
SDH 1296 Eureka Mills  
SDH 1296

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Dishwasher		Appliances and Controls	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
3BR F3  
Chester, SC 29730  
Model: 3BR F3

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1297 Eureka Mills  
SDH 1297

## Annual Energy Cost

Electric	\$1,274
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## Annual End-Use Cost

Heating	\$252
Cooling	\$122
Water Heating	\$318
Lights & Appliances	\$440
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,274

## Annual End-Use Consumption

Heating [Electric kWh]	1,945.2
Cooling [Electric kWh]	941.7
Hot Water [Electric kWh]	2,457.0
Lights & Appliances [Natural Gas Therms]	30.7
Lights & Appliances [Electric kWh]	3,396.8
Total [Natural Gas Therms]	30.7
Total [Electric kWh]	8,740.8
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.33
Peak Summer kW	1.55

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 3BR F3 Chester, SC 29730 Model: 3BR F3	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1297 Eureka Mills SDH 1297		

General Building Information	
Number Of Bedrooms: 3	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,197	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 10,773
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 3
Model: 3BR F3	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.84' FRAME FLOOR	1	Above Grade	1,197.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	70.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	225.5 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	326.3 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	615.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	297.0 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	51.8 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	110.3 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²

# Building Summary

<b>Property</b> Gobblers Knob 3BR F3 Chester, SC 29730 Model: 3BR F3	<b>Project &amp; Plan</b> SDH 1297 Eureka Mills SDH 1297	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Single Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²
Triple Window	.30 / .30	Right Exterior Wall		Yes	0	0	0	Northwest	36.0 ft²

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft² Exposed Exterior		6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Attic	R-38 Blown, Attic	1,377	No	No	-	Medium	0.75	1,197.0 ft²	Attic

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-38 Blown, Attic	No	38.121

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

# Mechanicals, Lights & Water

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	23kc/23kh 15.2seer2 7.8hspf2		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

# Building Summary

**Property**  
Gobblers Knob  
3BR F3  
Chester, SC 29730  
Model: 3BR F3

**Project & Plan**  
SDH 1297 Eureka Mills  
SDH 1297

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: 23kc/23kh 15.2seer2 7.8hspf2

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	23
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2 COP
Use default Supplemental Heat	Yes
Cooling Efficiency	15.2 SEER2
Cooling Capacity [kBtu/h]	23

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**  
Gobblers Knob  
3BR F3  
Chester, SC 29730  
Model: 3BR F3

**Project & Plan**  
SDH 1297 Eureka Mills  
SDH 1297

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Dishwasher		Appliances and Controls	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
4BR F1  
Chester, SC 29730  
Model: 4BR F1

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1298 Eureka Mills  
SDH 1298

## Annual Energy Cost

Electric	\$1,404
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## Annual End-Use Cost

Heating	\$280
Cooling	\$113
Water Heating	\$366
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,404

## Annual End-Use Consumption

Heating [Electric kWh]	2,162.9
Cooling [Electric kWh]	872.6
Hot Water [Electric kWh]	2,825.3
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,740.0
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.74
Peak Summer kW	1.83

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1298 Eureka Mills SDH 1298		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 15,719
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 1
Model: 4BR F1	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Slab									
Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing	
Slab	UNINSULATED	88.166	On Grade	2	0	1,429.0 ft²	Exposed Exterior	Conditioned Space	

Slab Library List									
Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value	
UNINSULATED	Wood Frame / Other	No	0	0	0	Yes	No	0.00	

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	44.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	364.7 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	198.0 ft²	Exposed Exterior	16.805
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Project &amp; Plan</b> SDH 1298 Eureka Mills SDH 1298	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²	
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²	
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²	

Glazing Library List			
Name	Shgc	U-factor	
.30 / .30	0.3	0.300	
.30 / .30	0.3	0.300	

Opaque Door										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value	
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25	

Roof Insulation										
Name	Library Type	Attic Exterior Area [ft²]	Concrete Clay or Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location	
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,429	No	No	-	Medium	0.75	1,429.0 ft²	Conditioned Space (Adiabatic)	

Roof Insulation Library List			
Name	Has Radiant Barrier	Effective R-value	
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884	

Whole House Infiltration			
Infiltration	Measurement Type	Shelter Class	
5 ACH at 50 Pa	Blower-door tested	4	

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

# Building Summary

**Property**  
Gobblers Knob  
4BR F1  
Chester, SC 29730  
Model: 4BR F1

**Project & Plan**  
SDH 1298 Eureka Mills  
SDH 1298

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes



# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Project &amp; Plan</b> SDH 1298 Eureka Mills SDH 1298	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Clothes Dryer	
Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

Clothes Washer	
Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1299 Eureka Mills  
SDH 1299

## Annual Energy Cost

Electric	\$1,399
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## Annual End-Use Cost

Heating	\$259
Cooling	\$129
Water Heating	\$365
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,399

## Annual End-Use Consumption

Heating [Electric kWh]	1,999.0
Cooling [Electric kWh]	998.4
Hot Water [Electric kWh]	2,823.0
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,699.7
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.62
Peak Summer kW	1.77

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F2 Chester, SC 29730 Model: 4BR F2	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1299 Eureka Mills SDH 1299		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 15,719
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 1
Model: 4BR F2	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.88' FRAME FLOOR	1	Above Grade	1,429.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	44.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	364.7 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	198.0 ft²	Exposed Exterior	16.805
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²

# Building Summary

**Property**  
Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**  
SDH 1299 Eureka Mills  
SDH 1299

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,429	No	No	-	Medium	0.75	1,429.0 ft²	Conditioned Space (Adiabatic)

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

# Mechanicals, Lights & Water

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

# Building Summary

**Property**  
Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**  
SDH 1299 Eureka Mills  
SDH 1299

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

# Building Summary

**Property**  
Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**  
SDH 1299 Eureka Mills  
SDH 1299

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

## Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

## Dishwasher

Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

## Appliances and Controls

Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1300 Eureka Mills  
SDH 1300

## Annual Energy Cost

Electric	\$1,423
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## Annual End-Use Cost

Heating	\$275
Cooling	\$137
Water Heating	\$365
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,423

## Annual End-Use Consumption

Heating [Electric kWh]	2,125.6
Cooling [Electric kWh]	1,059.6
Hot Water [Electric kWh]	2,823.2
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,887.7
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.69
Peak Summer kW	1.78

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F3 Chester, SC 29730 Model: 4BR F3	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1300 Eureka Mills SDH 1300		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 12,861
Total Units in Building: 30	Residence Type: Apartment, end unit
Number of Floors in Building: 3	Floor Number: 3
Model: 4BR F3	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.88' FRAME FLOOR	1	Above Grade	1,429.0 ft²	Conditioned Space (Adiabatic)	11.43

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	198.0 ft²	Exposed Exterior	16.805
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²



# Building Summary

<b>Property</b> Gobblers Knob 4BR F3 Chester, SC 29730 Model: 4BR F3	<b>Project &amp; Plan</b> SDH 1300 Eureka Mills SDH 1300	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft² Exposed Exterior		6.25

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Attic	R-38 Blown, Attic	1,643	No	No	-	Medium	0.75	1,429.0 ft²	Attic

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-38 Blown, Attic	No	38.121

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

# Building Summary

## Property

Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

## Project & Plan

SDH 1300 Eureka Mills  
SDH 1300

## Organization

Home Energy and Comfort Solution:  
Steve Hart

## Inspection Status

Results are projected

### Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

### Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

### Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**

Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

**Project & Plan**

SDH 1300 Eureka Mills  
SDH 1300

**Organization**

Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**

Results are projected

Dishwasher		Appliances and Controls	
Dishwasher Defaults Type	ENERGY STAR Standard	Programmable thermostat?	Yes
Dishwasher Size	Standard	Range/Oven Fuel	Natural Gas
Dishwasher Efficiency	270 kWh	Convection Oven?	No
Annual Gas Cost	\$22.23	Induction Range?	No
Electric Rate	\$0.12/kWh	Range/Oven Outside Conditioned Space?	No
Gas Rate	\$1.09/Therm	Refrigerator Consumption	1 kWh/Year
Is Outside Conditioned Space	No	Refrigerator Outside Conditioned Space?	No
Dishwasher Available	Yes		

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Rim Joist, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
4BR F1  
Chester, SC 29730  
Model: 4BR F1

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1301 Eureka Mills  
SDH 1298

## Annual Energy Cost

Electric	\$1,387
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## Annual End-Use Cost

Heating	\$266
Cooling	\$110
Water Heating	\$366
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,387

## Annual End-Use Consumption

Heating [Electric kWh]	2,056.8
Cooling [Electric kWh]	849.2
Hot Water [Electric kWh]	2,825.1
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,610.3
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.69
Peak Summer kW	1.81

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1301 Eureka Mills SDH 1298		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 15,719
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 1
Model: 4BR F1	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Slab									
Name	Library Type	Perimeter	Floor Grade	Carpet R	Exposed Masonry Area	Surface Area	Location	Enclosing	
Slab	UNINSULATED	88.166	On Grade	2	0	1,429.0 ft²	Exposed Exterior	Conditioned Space	

Slab Library List									
Name	Wall Construction Type	Slab Completely Insulated?	Underslab Insulation Width [ft]	Perimeter Insulation Depth [ft]	Perimeter Insulation R Value	Perimeter Insulation Is Exterior	Thermal Break	Effective R-value	
UNINSULATED	Wood Frame / Other	No	0	0	0	Yes	No	0.00	

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	44.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	364.7 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Project &amp; Plan</b> SDH 1301 Eureka Mills SDH 1298	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area	
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²	
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²	
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²	
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²	

Glazing Library List			
Name	Shgc	U-factor	
.30 / .30	0.3	0.300	
.30 / .30	0.3	0.300	

Opaque Door										
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value	
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25	

Roof Insulation										
Name	Library Type	Attic Exterior Area [ft²]	Concrete Clay or Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location	
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,429	No	No	-	Medium	0.75	1,429.0 ft²	Conditioned Space (Adiabatic)	

Roof Insulation Library List			
Name	Has Radiant Barrier	Effective R-value	
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884	

Whole House Infiltration			
Infiltration	Measurement Type	Shelter Class	
5 ACH at 50 Pa	Blower-door tested	4	

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

# Building Summary

**Property**  
Gobblers Knob  
4BR F1  
Chester, SC 29730  
Model: 4BR F1

**Project & Plan**  
SDH 1301 Eureka Mills  
SDH 1298

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

# Building Summary

<b>Property</b> Gobblers Knob 4BR F1 Chester, SC 29730 Model: 4BR F1	<b>Project &amp; Plan</b> SDH 1301 Eureka Mills SDH 1298	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Clothes Dryer	
Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

Clothes Washer	
Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Framed Floor, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes



# Fuel Summary

**Property**

Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1302 Eureka Mills  
SDH 1302

## Annual Energy Cost

Electric	\$1,381
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## Annual End-Use Cost

Heating	\$244
Cooling	\$126
Water Heating	\$365
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,381

## Annual End-Use Consumption

Heating [Electric kWh]	1,888.3
Cooling [Electric kWh]	974.0
Hot Water [Electric kWh]	2,822.7
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,564.3
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.56
Peak Summer kW	1.75

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F2 Chester, SC 29730 Model: 4BR F2	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1302 Eureka Mills SDH 1302		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 15,719
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 1
Model: 4BR F2	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.88' FRAME FLOOR	1	Above Grade	1,429.0 ft²	Conditioned Space (Adiabatic)	11.43

Rim Joist				
Name	Library Type	Surface Area	Location	Effective Insulation R-value
Common Band	R 22	44.0 ft²	Conditioned Space (Adiabatic)	22.00
Exterior Band	R 19.0	364.7 ft²	Exposed Exterior	19.00

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²

# Building Summary

**Property**  
Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**  
SDH 1302 Eureka Mills  
SDH 1302

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²

## Glazing Library List

Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

## Opaque Door

Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft²	Exposed Exterior	6.25

## Roof Insulation

Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Floor Above	R-11 Adiabatic C' or Floor LDG 14.152	1,429	No	No	-	Medium	0.75	1,429.0 ft²	Conditioned Space (Adiabatic)

## Roof Insulation Library List

Name	Has Radiant Barrier	Effective R-value
R-11 Adiabatic C' or Floor LDG 14.152	No	13.884

## Whole House Infiltration

Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

# Mechanicals, Lights & Water

## Mechanical Ventilation

Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

## Lighting

% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

# Building Summary

**Property**  
Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**  
SDH 1302 Eureka Mills  
SDH 1302

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Conditioning Equipment

Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space

### Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

### Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

# Building Summary

**Property**

Gobblers Knob  
4BR F2  
Chester, SC 29730  
Model: 4BR F2

**Project & Plan**

SDH 1302 Eureka Mills  
SDH 1302

**Organization**

Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**

Results are projected

Clothes Dryer	
Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

Clothes Washer	
Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# Fuel Summary

**Property**

Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

**Organization**

Home Energy and Comfort Solu  
Steve Hart

**Inspection Status**

Results are projected

**Builder**

SDH 1303 Eureka Mills  
SDH 1303

## Annual Energy Cost

Electric	\$1,406
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## Annual End-Use Cost

Heating	\$261
Cooling	\$134
Water Heating	\$365
Lights & Appliances	\$502
Onsite Generation	-\$0
Service Charges	\$144
Total	\$1,406

## Annual End-Use Consumption

Heating [Electric kWh]	2,016.0
Cooling [Electric kWh]	1,035.9
Hot Water [Electric kWh]	2,822.9
Lights & Appliances [Natural Gas Therms]	33.4
Lights & Appliances [Electric kWh]	3,879.3
Total [Natural Gas Therms]	33.4
Total [Electric kWh]	9,754.0
Total Onsite Generation [Electric kWh]	0.0

## Peak Electric Consumption

Peak Winter kW	2.63
Peak Summer kW	1.76

## Utility Rates

Electricity	Duke Energy SC
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# Building Summary

<b>Property</b> Gobblers Knob 4BR F3 Chester, SC 29730 Model: 4BR F3	<b>Organization</b> Home Energy and Comfort Solutions, Steve Hart	<b>Inspection Status</b> Results are projected
<b>Builder</b>  SDH 1303 Eureka Mills SDH 1303		

General Building Information	
Number Of Bedrooms: 4	Number Of Floors: 1
Conditioned Floor Area [sq. ft.]: 1,429	Has Electric Vehicle Ready Space: No
Unconditioned, attached garage? No	Conditioned Volume [cu. ft.]: 12,861
Total Units in Building: 30	Residence Type: Apartment, inside unit
Number of Floors in Building: 3	Floor Number: 3
Model: 4BR F3	Community:
RESNET/IECC 2006-2018 Climate Zone: 3A	IECC 2021 Climate Zone: 3A

## Envelope Components

Framed Floor						
Name	Library Type	Carpet R	Floor Grade	Surface Area	Location	Effective R-value
Floor Below	LDG APTS R-11 ADIABATIC 1.88' FRAME FLOOR	1	Above Grade	1,429.0 ft²	Conditioned Space (Adiabatic)	11.43

Wall						
Name	Library Type	Surface Color	Solar Absorptance	Surface Area	Location	Effective R-value
Bottom Corridor Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	451.5 ft²	Exposed Exterior	16.805
Left Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Left Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	72.0 ft²	Exposed Exterior	16.805
Right Common Wall	LDG Common Wall	Medium	0.75	198.0 ft²	Conditioned Space (Adiabatic)	21.656
Right Top Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	55.5 ft²	Exposed Exterior	16.805
Top Left Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Middle Exterior	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Return Exterior Walls	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	441.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805
Top Right Exterior Wall	R-19 SIDING 16.806 FINISHED AG	Medium	0.75	108.0 ft²	Exposed Exterior	16.805

Glazing									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Is Operable	Overhang Depth	Overhang Ft To Top	Overhang Ft To Bottom	Orientation	Surface Area
1/2 Double Window	.30 / .30	Top Left Exterior Wall		Yes	0	0	0	Northwest	23.0 ft²
Double Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Double Window	.30 / .30	Top Right Exterior Wall		Yes	0	0	0	Northwest	30.0 ft²
Patio Double Door	.30 / .30	Top Middle Exterior		Yes	0	0	0	Northeast	40.0 ft²
Single Window	.30 / .30	Right Top Exterior Wall		Yes	0	0	0	Northwest	6.0 ft²

# Building Summary

<b>Property</b> Gobblers Knob 4BR F3 Chester, SC 29730 Model: 4BR F3	<b>Project &amp; Plan</b> SDH 1303 Eureka Mills SDH 1303	<b>Organization</b> Home Energy and Comfort Solution: Steve Hart	<b>Inspection Status</b> Results are projected
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Glazing Library List		
Name	Shgc	U-factor
.30 / .30	0.3	0.300
.30 / .30	0.3	0.300

Opaque Door									
Name	Library Type	Wall Assignment	Foundation Wall Assignment	Emittance	Solar Absorptance	Surface Color	Surface Area	Location	Effective R-value
Opaque Door	Steel-urth 6.25	Bottom Corridor Wall		0.9	0.75	Medium	40.0 ft² Exposed Exterior		6.25

Roof Insulation									
Name	Library Type	Attic Exterior Area [ft²]	Clay or Concrete Roof Tiles	Does the Roof have Eaves?	Effective R-Value after eaves	Surface Color	Solar Absorptance	Surface Area	Location
Attic	R-38 Blown, Attic	1,643	No	No	-	Medium	0.75	1,429.0 ft²	Attic

Roof Insulation Library List		
Name	Has Radiant Barrier	Effective R-value
R-38 Blown, Attic	No	38.121

Whole House Infiltration		
Infiltration	Measurement Type	Shelter Class
5 ACH at 50 Pa	Blower-door tested	4

## Mechanicals, Lights & Water

Mechanical Ventilation							
Ventilation Type	Ventilation Rate [ft³ / Minute]	Operational hours per day	Fan Watts	Runs once every three hours	Energy Recovery Percent	Model Number	Manufacturer
Exhaust Only	100 CFM	24	35 Watts (Default)	Yes	0		

Lighting					
% Interior Fluorescent Lighting	% Interior LED Lighting	% Exterior Fluorescent Lighting	% Exterior LED Lighting	% Garage Fluorescent Lighting	% Garage LED Lighting
0	100	0	100	0	100

Conditioning Equipment						
Name	Library Type	Serial Number	Heating Percent Load	Cooling Percent Load	Hot Water Percent Load	Location
Air Source H/P	28.4/28.4 15.2SR2 7.8HSPF2 PSC		100%	100%	0%	Conditioned Space
H/W Heater	ENL 40- .90EF		0%	0%	100%	Conditioned Space



# Building Summary

**Property**  
Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

**Project & Plan**  
SDH 1303 Eureka Mills  
SDH 1303

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

## Equipment Type: 28.4/28.4 15.2SR2 7.8HSPF2 PSC

Equipment Type	Air Source Heat Pump
Fuel Type	Electric
Distribution Type	Forced Air
Motor Type	PSC (Single Speed)
Heat Pump System Type	Ducted Split System
Heating Efficiency	7.8 HSPF2
Heating Capacity [kBtu/h]	28.4
Backup Fuel Type	Electric
Switchover Temperature [°F]	0
Backup Heating Efficiency	2.02 COP
Use default Supplemental Heat	No
Supplemental Heat [kW]	10
Cooling Efficiency	15.2 SEER
Cooling Capacity [kBtu/h]	28.4

## Equipment Type: ENL 40- .90EF

Equipment Type	Residential Water Heater
Fuel Type	Electric
Distribution Type	Hydronic Delivery (Radiant)
Hot Water Efficiency	0.89 Energy Factor
Tank Capacity (gal.)	38

## Distribution System

Distribution Type	Forced Air
Heating Equipment	Air Source H/P
Cooling Equipment	Air Source H/P
Sq. Feet Served	759
# Return Grilles	1
Supply Duct R Value	6
Return Duct R Value	6
Supply Duct Area [ft²]	204.93
Return Duct Area [ft²]	37.95
Leakage to Outdoors	30 CFM @ 25Pa (3.95 / 100 ft²)
Total Leakage	50 CFM25
Total Leakage Duct Test Conditions	Post-Construction
Use Default Flow Rate	Yes
Duct 1	
Duct Location	Conditioned Space
Percent Supply Area	100
Percent Return Area	100

## Water Distribution

Water Fixture Type	Low-flow
Use Default Hot Water Pipe Length	No
Hot Water Pipe Length [ft]	55
At Least R3 Pipe Insulation?	No
Hot Water Recirculation System?	No
Drain Water Heat Recovery?	No

## Appliances & Notes

### Clothes Dryer

Cef	3.01
Fuel Type	Electric
Field Utilization	Timer Controls
Is Outside Conditioned Space	No
Defaults Type	HERS Reference
Is Ventless	No
Is Heat Pump	No
Clothes Dryer Available	Yes

### Clothes Washer

Label Energy Rating	400 kWh/Year
Annual Gas Cost	\$27.00
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Capacity	3
Imef	1
Defaults Type	HERS Reference
Load Type	Front-load
Loads Per Week	6
Is Outside Conditioned Space	No
Clothes Washer Available	Yes

# Building Summary

**Property**  
Gobblers Knob  
4BR F3  
Chester, SC 29730  
Model: 4BR F3

**Project & Plan**  
SDH 1303 Eureka Mills  
SDH 1303

**Organization**  
Home Energy and Comfort Solution:  
Steve Hart

**Inspection Status**  
Results are projected

Dishwasher	
Dishwasher Defaults Type	ENERGY STAR Standard
Dishwasher Size	Standard
Dishwasher Efficiency	270 kWh
Annual Gas Cost	\$22.23
Electric Rate	\$0.12/kWh
Gas Rate	\$1.09/Therm
Is Outside Conditioned Space	No
Dishwasher Available	Yes

Appliances and Controls	
Programmable thermostat?	Yes
Range/Oven Fuel	Natural Gas
Convection Oven?	No
Induction Range?	No
Range/Oven Outside Conditioned Space?	No
Refrigerator Consumption	1 kWh/Year
Refrigerator Outside Conditioned Space?	No

**Components Not Found:** Foundation Wall, Foundation Wall Library List, Slab, Slab Library List, Rim Joist, Skylight, Onsite Generation, Solar Generation, Dehumidifier, Whole House Fan, Whole House Fan Library List, HVAC Grading (Not Conducted), Ceiling Fan, Notes

# THIS SHEET IS FOR COMPARISON ONLY

## Utility Allowance Schedule

**U.S. Department of Housing and  
Urban Development**

OMB Approval No. 2577-0169

Office of Public and Indian Housing

The following allowances are used to determine the total cost of tenant-furnished utilities and appliances.

Locality/PHA		Green Discount		Unit Type			Date (mm/dd/yyyy)
SC State Housing Finance & Development Agency Upstate Region South Carolina		No		Larger Apartment Bldgs. (5+ units)			01/28/2025
Utility or Service	Fuel Type	0 BR	1 BR	2 BR	3 BR	4 BR	5 BR
Heating	Natural Gas	\$20	\$24	\$27	\$31	\$34	\$37
	Bottled Gas	\$63	\$74	\$84	\$94	\$104	\$113
	Electric Resistance	\$15	\$18	\$23	\$29	\$34	\$40
	Electric Heat Pump	\$13	\$15	\$18	\$21	\$23	\$26
	Fuel Oil	\$49	\$57	\$65	\$73	\$81	\$88
Cooking	Natural Gas	\$3	\$4	\$6	\$7	\$9	\$11
	Bottled Gas	\$10	\$12	\$18	\$23	\$29	\$34
	Electric	\$5	\$6	\$9	\$12	\$15	\$18
	Other						
Other Electric	Electric	\$20	\$24	\$34	\$43	\$52	\$62
Air Conditioning	Electric	\$9	\$10	\$14	\$18	\$22	\$27
Water Heating	Natural Gas	\$7	\$9	\$13	\$16	\$20	\$24
	Bottled Gas	\$23	\$27	\$40	\$52	\$64	\$76
	Electric	\$13	\$15	\$20	\$24	\$28	\$32
	Fuel Oil	\$18	\$21	\$31	\$40	\$50	\$59
Water		\$24	\$25	\$35	\$53	\$72	\$95
Sewer		\$43	\$46	\$65	\$93	\$120	\$148
Trash Collection		\$19	\$19	\$19	\$19	\$19	\$19
Other - Specify							
Range/Microwave		\$19	\$19	\$19	\$19	\$19	\$19
Refrigerator		\$18	\$18	\$18	\$18	\$18	\$18
Electric Base Charge		\$12	\$12	\$12	\$12	\$12	\$12
Totals		\$9	\$119	\$135	\$155	\$174	\$9

Actual Family Allowances-May be used by the family to compute allowance while searching for a unit.		Utility/Service/Appliance	Allowance
Head of Household Name		Heating	
		Cooking	
		Other Electric	
Unit Address		Air Conditioning	
		Water Heating	
		Water	
		Sewer	
		Trash Collection	
Number of Bedrooms		Other	
		Range/Microwave	
		Refrigerator	
		<b>Total</b>	

Previous versions are obsolete.

Spreadsheet (ver14) based on Form HUD-52667 (04/2023).  
ref. Handbook 7420.8