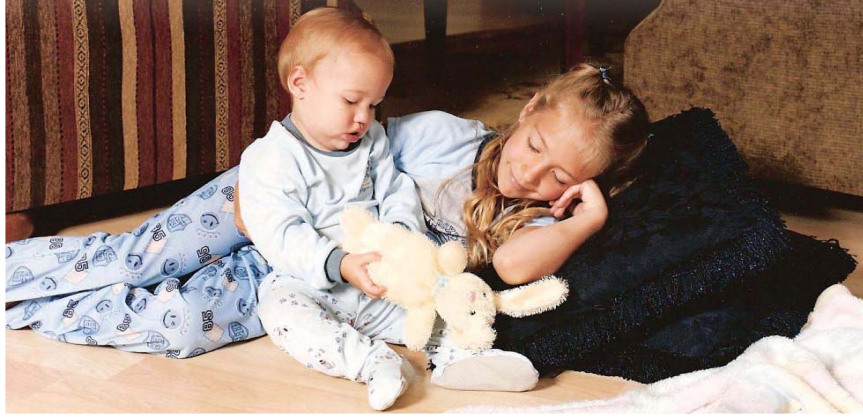




The Perfect Heating Solution



***SAVE 60% Or More On
YOUR Home Heating
Costs With
Electric Thermal Storage***



Red Creek Ranches

Electric Thermal
Storage provides
you with an
Economic
Heating Source
for your Home



ETS...Comfort,
warmth and
affordability can
be yours,
*“Because there
is more to
Life”...*

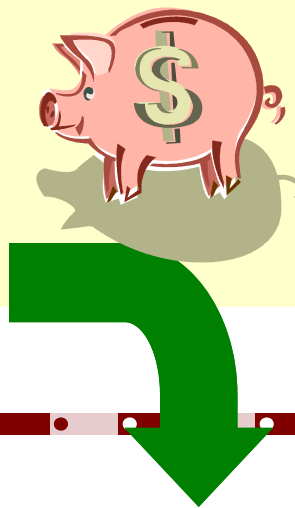


San Isabel Electric
Energy Service Department
647-6242
1-800-279-7432
www.siea.com

The Smart Heating Solution

ELECTRIC THERMAL STORAGE

Electric Thermal Storage “ETS” is a heating technology designed to store electric heat during the **“OFF-PEAK”** hours of the day. A super insulated storage cavity containing ceramic bricks is “charged” or “heated” to approximately 1400 °F to store for use during the **“ON-PEAK”** hours of the day, a time when electricity costs are higher. A fan forces air over the heated bricks sending the warm air into the room throughout the day. Keeping your room at a comfortable temperature and using a minimal amount of electricity. The **Electric Thermal Storage Units** surface temperature will not harm or burn when touched and is safe for children to play around. Units operate quietly and efficiently delivering heat much like a wood stove without the mess.



Calculate your savings at:
www.heatforlessnow.com

Harry & Mary Copeland, Walsenburg.



We designed a 3,200 sq. ft. two story, Santa Fe style home. Our high "R" value construction material is of foam blocks filled with concrete on the first floor which is a walk in basement and OSB/foam sandwich panels for the second floor walls and roof. The Electric Thermal Storage Unit model 2004, purchased from San Isabel Electric, is centrally located on the lower level. In the other living areas we installed electric baseboard heat.

We experienced low monthly electric costs for the heating season and even in the non heating months because of the lower priced "off peak" electric rates we receive from San Isabel Electric.

Needless to say we are firm believers in the "off-peak" Electric Thermal Storage program.

Calculate your savings at:
Heatforlessnow.com

End User Cost of Operation Comparison

Heatloss of home 45,000 btu/h
 Outside Design Temp. 0

Heatpump 3 Ton, 13 SEER maintaining a minimum of 90-degree duct temperature
 Heatpump is controlled during On-Peak Hours

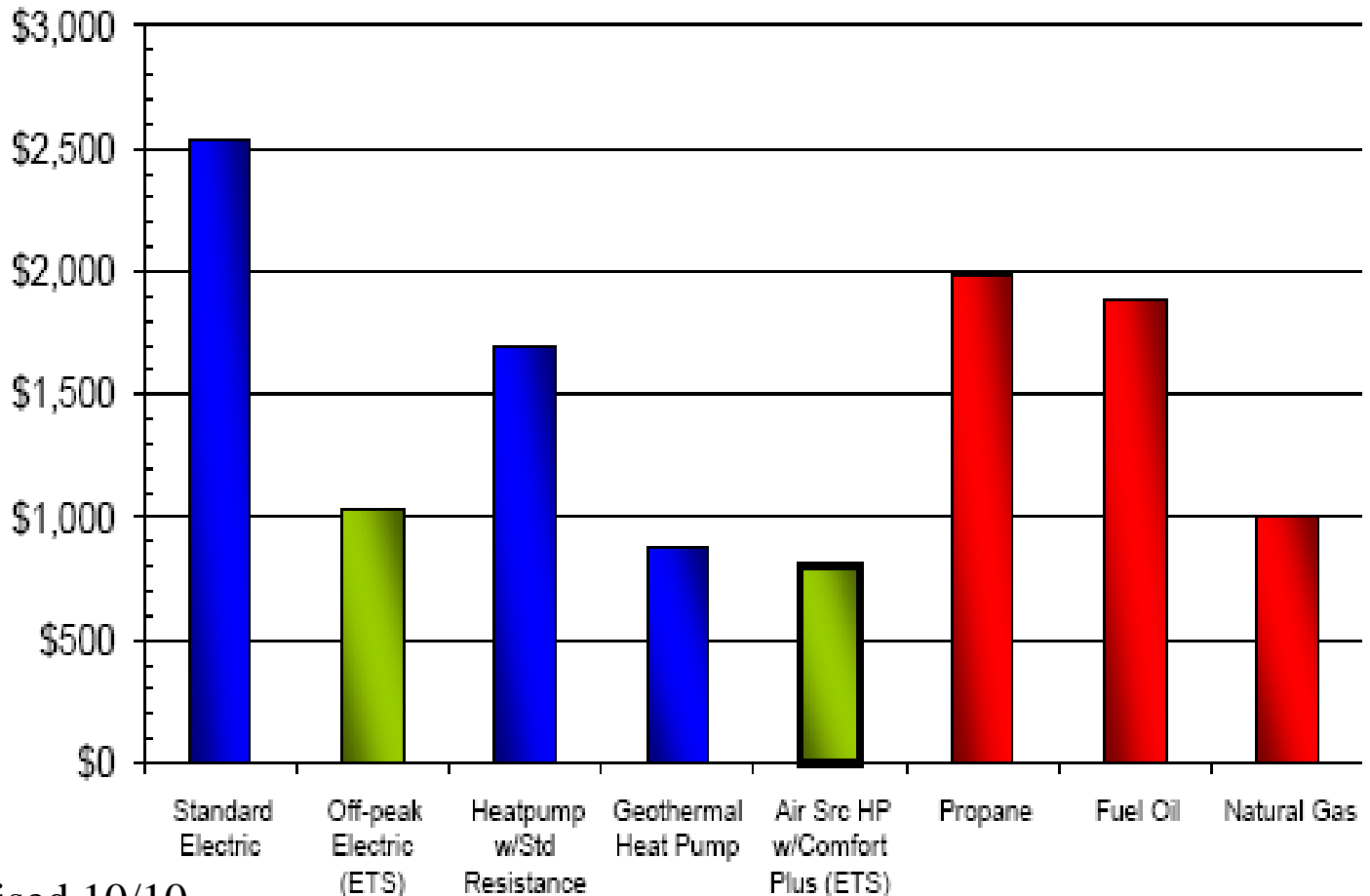
Electric Rates:	Rate	U/M
Standard Electric	0.140	kWh
On-Peak	0.140	kWh
Off-Peak	0.057	kWh

Fossil Fuel costs:	Cost	U/M	Base Chg.
Propane	2.58	Gallon	0.00
Fuel Oil	3.25	Gallon	0.00
Natural Gas	1.10	Therm	10.00 Monthly

Heat Pump with Comfort Plus	
HP kWh On-Peak	0
HP kWh Off-Peak	2,388
Comfort Plus (ETS) kWh	11,683
Total	14,069
Annual Efficiency	129%

Cost of Operation:	Efficiency	Usage	U/M	Ext. Cost
Standard Electric	100%	18,198 kWh's		\$2,538.79
Off-peak Electric (ETS)	100%	18,198 kWh's		\$1,037.28
Heatpump w/Std Resistance	150%	12,129 kWh's		\$1,692.13
Geothermal Heat Pump	290%	8,275 kWh's		\$875.45
Air Src HP w/Comfort Plus	129%	14,069 kWh's		\$801.96
Propane	90%	755 Gallon's		\$1,991.80
Fuel Oil	80%	580 Gallon's		\$1,884.29
Natural Gas	90%	690 Therm's		\$1,008.45

Estimated Annual Heating Cost Comparison



"ON-PEAK"

Rate is 0.139514¢ per Kwh

The "On-Peak" rate applies to all electric usage that is not "Off-Peak" scheduled times.

"OFF-PEAK"

Rate is 0.05722¢ per Kwh

The "Off-Peak" rate applies to electric usage from:

Summer Off Peak

9:00 p.m. to 6:30 a.m.

May through August

AND

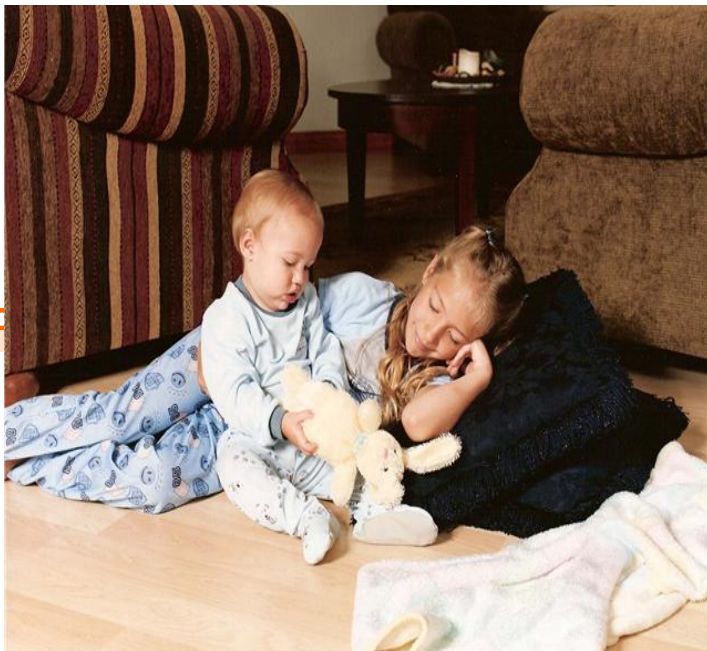
Winter Off Peak

9:00 p.m. to 5:30 a.m.

12:30 p.m. to 4:30 p.m.

September through April

The Smart Heating Solution



Calculate your savings at:
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Electric Thermal Storage Heater Selection Guide

Area (ft²) ETS Heater Can Heat*** [8' Ceilings in Area](#)***

Model	KW	Excellent	Good	Poor
2102	3.6	576	458	299
2103	5.4	864	687	448
2104	7.2	1,151	916	598
2105	9.0	1,439	1,146	747
2106	9.0	1,643	1,308	853
Comfort Plus Furnaces		Excellent	Good	Poor
3120	21.6	4,335	3,228	1,982
4120	24.8	5,054	3,763	2,311
4130	28.8	5,869	4,370	2,683
4140	38.4	7,825	5,827	3,578
5120	24.8	5,054	3,763	2,311
5130	37.2	7,581	5,645	3,466
5140	38.4	7,825	5,827	3,578

Notes: [VALUES](#) listed are approximations based upon the following assumptions:

*Ranch Style Home with main level and basement (Total Square Footage)

Excellent: Insulation values of R29 (Walls), R45 (Ceilings), Dbl Pane Windows

Good: Insulation values of R19 (Walls), R30 (Ceilings), Dbl Pane Windows

Poor: Insulation values of R11 (Walls), R19 (Ceilings), Dbl Pane Windows

Average of 75 ft² of windows and 8 foot ceiling height. If heater is placed in an area open to adjoining rooms, additional heating capacity may be necessary.

Wiring & Circuit Breaker Sizing

ETS Room Units	Field Connection Wire Size	Maximum KW 240 Volt AC	Maximum Circuit Breaker Size (240 Volt Only)
2102	#12 AWG	3.8	20
2103	#10 AWG	5.7	30
2104	#8 AWG	7.6	40
2105 & 2106	#6 AWG	9.0 — 10.5	50 — 60

Steffes ETS Room Units

MODEL #	DESCRIPTION	SIEA PRICE
2102 ETS	3.6 kw 30" x 24.5" x 10.5"	\$1,058.00
2103 ETS	5.4 kw 37" x 24.5" x 10.5"	\$1,252.00
2104 ETS	7.2 kw 44" x 24.5" x 10.5"	\$1,465.00
2105 ETS	7.5 kw 51" x 24.5" x 10.5"	\$1,690.00
2106 ETS	9.0 kw 58" x 24.5" x 10.5"	\$1,890.00
Freight Minimum..\$25.00 per unit Delivery To Area Office		

Miscellaneous

MODEL #	DESCRIPTION	SIEA PRICE
1041560	1/2 HP Variable Spd Fan	\$450.00
1301550	Return Air Plenum	\$225.00
1302110	Static Heat Recovery Unit	\$210.00
1301585	18" Stand for 4100/5100	\$226.00
1302115	Primary Loop Kit	\$480.00

Furnaces

MODEL #	DESCRIPTION	SIEA PRICE
3120 ETS	21.6 kw Comfort Plus Ducted Unit	\$3,542.00
4120 ETS	24.8 kw Comfort Plus Ducted Unit	\$3,679.00
4130 ETS	37.2 kw Comfort Plus Ducted Unit	\$4,138.00
4140 ETS	38.4 kw Comfort Plus Ducted Unit	\$4,448.00
5120 ETS	24.8 kw Comfort Plus Hydronic Unit	\$3,978.00
5130 ETS	37.2 kw Comfort Plus Hydronic Unit	\$4,446.00
5140 ETS	38.4 kw Comfort Plus Hydronic Unit	\$4,793.00

Freight Minimum..\$350.00

Rev 10/10	Prices Subject to Change Without Notice	
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SAN ISABEL ELECTRIC MEMBERS STAY "WARM" WITH ELECTRIC THERMAL STORAGE



Low Cost Heating Solutions

- ◆ New Homes
- ◆ Replacement of Existing Heating System
- ◆ Home Additions
- ◆ Wood Stove Replacement
- ◆ Heat Pump Comfort Booster

*Low Operating Cost,
Comfortable,
Safe and
Reliable*



Ask us for details



STEFFES
CORPORATION



REBATE PROGRAM FOR ELECTRIC THERMAL STORAGE

Rebate will be processed and a check mailed to members who paid in full for ETS equipment. If ETS equipment is on a contract with SIEA, the rebate will be applied to the contract.

ETS ROOM UNIT REBATE

2102 3.6 kw - \$72.00

2103 5.4 kw - \$108.00

2104 7.2 kw - \$144.00

2105 7.5 kw - \$150.00

2106 9.0 kw - \$180.00

ETS FURNACE REBATE

3120 21.6 kw - \$432.00

4120 24.8 kw - \$496.00

4130 37.2 kw - \$744.00

4140 38.4 kw - \$768.00

5120 24.8 kw - \$496.00

5130 37.2 kw - \$744.00

5140 38.4 kw - \$768.00



**FINANCING IS AVAILABLE FOR THE
PURCHASE OF AN
ELECTRIC THERMAL
STORAGE HEATING SYSTEM**

**San Isabel Electric will
finance ETS Equipment for:
24 months at 10% interest
A 20% down
payment is required.**

ALL ON ONE MONTHLY BILL!



Courtesy of Steffes Corporation

Planning to BUILD or REMODEL?



Now is the time to start thinking about your heating options.

With Low Cost "OFF-PEAK" Electric Thermal Storage (ETS), You Will Enjoy Stable, Safe And Affordable Electric Heating for Years to Come.

The Energy Service Department at San Isabel Electric Association is here to help you with your decision. Let us educate you, our member, about Electric Thermal Storage and *How* "ETS" will keep your new or remodeled home warm.



CALL FOR MORE INFORMATION
SAN ISABEL ELECTRIC ASSOCIATION
893 E ENTERPRISE DR
PUEBLO WEST, CO 81007
Energy Service Department
(719) 647-6242 OR 1-800-279-7432

HOW TO READ YOUR TIME OF USE METER

The "time of use" meter has a digital display which rotates through a series of numbers every 10 to 15 seconds. Two reads are needed to calculate your bill, the O2 & the O6 reads.

You will find both "reads" displayed on the rectangular screen of your meter. Inside the rectangular screen on the left are the numbers "O2" OR "O6". The numbers to the right of the "O2" OR "O6" are the reads to turn in with your bill.

"O2"

The "O2" read is the "on-peak" electricity your home uses.

"O6"

The "O6" read is the "off-peak" electricity your home uses.

The other displays are check displays you will see all "8's" and the time of day display in a 24-hour time clock.



TYPICAL QUESTIONS ASKED ABOUT ELECTRIC THERMAL STORAGE

1. ***“I have never heard of ETS. Is this new?”*** ETS has been in the United States since the mid-70’s, and has been utilized in Europe dating way back to the 1940’s.
2. ***“I have a 1000 square foot home. What size equipment do I need?”***
There are several factors involved in determining the correct size(s) of equipment for your home. A heat loss calculation should be performed in order to determine the appropriate model(s).
3. ***“How long will the ETS equipment hold heat?”*** The ETS equipment is sized to satisfy the heating requirements on the coldest days of the year. If there is no requirement for heat from the equipment (no heat calls), the room units will store heat for up to 72 hours.
4. ***“What happens if the unit is charged up, and I don’t need heat? Is that heat wasted?”*** The ETS equipment is well insulated so the heat can be retained in the brick cavity. There is some heat radiated from the heater; however, this usually goes into the conditioned space of the home. Therefore, the heat is not wasted.
5. ***“How do I get the heat out of the heater?”*** The discharge of heat from the ETS equipment is controlled with fans. When there is a need for heat, the room thermostat signals the fans to operate.
6. ***“What happens if I run out of heat?”*** You may purchase on-peak power for heating from San Isabel Electric Association during this time. If this occurs frequently, we suggest installing additional equipment.
7. ***“Can I recess the room unit into a wall?”*** Yes, however, there are minimum clearances, which must be adhered to. These clearances vary by room unit model; however, they are approximately 1.75” from the sides and back, 4” on the top, and 15” in front of the discharge grill area.
8. ***“How hot does the unit get?”*** At full brick core charge, the outer skin temperature of the room units is approximately 160 degrees (F).
9. ***“Can the unit start a fire?”*** The ETS equipment is designed with many built-in safety devices and controls. The Steffes ETS equipment is very safe, and does not present any concerns if normal operation instructions are adhered to. As with any heating appliance, do not use or store materials that are explosive or flammable near the heating equipment.



**San Isabel Electric Association, Inc.
893 E Enterprise Dr
Pueblo West, CO 81007
719-547-2160
1-800-279-7432
Energy Service Department
719-647-6242**



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Dickinson, ND 58601
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