

## Appendix A

### 2014-2015 South Dakota Residential Existing Construction Program (Electric and Natural Gas)

#### Residential Existing Construction Electric and Natural Gas Rebate Measures

Measures	Minimum Requirements	Preferred Contractor Rebate (\$/unit)	Self-Installed or Non-Preferred Contractor Rebate (\$/unit)	Units	Qualifiers
1 Canned Lighting Air Tight Sealing	Applicable to attic locations only	\$ 12.00	\$ 9.60	per can	Home must be heated exclusively with electricity
2 Compact Fluorescent Lamp (CFL) Lamp	Hard-wired ballast	\$ 5.00	\$ 5.00	per unit	Energy Star rated CFL
3 Compact Fluorescent Lamp (CFL) Fixture	Integral or modular screw-in	\$ 1.00	\$ 1.00	per unit	Energy Star rated CFL
3 Lighter Colored Shingles	Asphalt shingles (Energy Star rated)	\$ 25.00	\$ 25.00	per home	Home must have central cooling system.
4 R-11 (Steel Doors with foam core)	Replace standard R-3 exterior door (minimum of two exterior doors)	\$ 15.00	\$ 15.00	per door	Home must be heated exclusively with electricity
5 R-5 (Composite Doors with foam core)	Replace standard R-3 exterior door (minimum of two exterior doors)	\$ 5.00	\$ 5.00	per door	Home must be heated exclusively with electricity
6 Weatherstripping and Door Sweeps	Minimum of two exterior doors	\$ 20.00	\$ 20.00	per home	Home must be heated exclusively with electricity
7 Heat Pump - Ground or Water-Source (Desuperheater)	Home water heating exclusively with electricity.	\$ 75.00	NA	per unit	DHW water heating heat recovery unit with existing GSHP
8 Duct Sealing	Mastic or aerosol duct sealing in unconditioned areas with duct blaster test	\$ 250.00	NA	per unit	Home must be heated exclusively with electricity
9 Insulation (Basement or Crawl Space Wall)	R-0 to R21	\$ 0.30	\$ 0.24	per sqft	Home must be heated exclusively with electricity
10 Insulation (Ceiling/Attic)	R-0 to R-49	\$ 1.00	\$ 0.80	per sqft	Home must be heated exclusively with electricity
11 Proper Sizing - Central Air Conditioner	Completed ACCA Manual "J" Calculation form	\$ 5.00	NA	per unit	Must provide completed ACCA Manual "J" Calculation form
12 Proper Sizing - Heat Pump	Correctly Sized Heat_Pump (Cooling And Heating Unit)	\$ 5.00	NA	per unit	Must provide completed ACCA Manual "J" Calculation form
13 Refrigerator/Freezer - Energy Star	Energy Star rated $\geq$ 7.75 cuft	\$ 15.00	\$ 15.00	per unit	Energy Star rated $\geq$ 7.75 cuft
14 Thermostat - Clock/Programmable	Programmable Thermostat	\$ 0.006	\$ 0.005	per square f	Home must be heated exclusively with electricity
15 Water Heater Tank Blanket/Insulation	Install insulation (R-5) or greater	\$ 10.00	\$ 10.00	per unit	Home water heating exclusively with electricity.
16 Water Heater Thermostat Setback	120 degrees	\$ 3.00	\$ 3.00	per unit	Home water heating exclusively with electricity.
17 Attic/Ceiling R-0 to R-49 Insulation	Home must be heated primarily with natural gas	\$ 0.50	\$ 0.40	per sqft	Existing R-0 increase to minimum R-49
18 Crawlspace R-0 to R-19 Insulation	Home must be heated primarily with natural gas	\$ 0.42	\$ 0.34	per sqft	Existing R-0 increase to minimum R-19, Includes rim joist insulation
19 Boiler Diagnostic Testing, Repair and Maintenance		\$ 75.00	NA	per unit	
20 Heater Diagnostic Testing, Repair and Maintenance		\$ 60.00	NA	per unit	
21 High Efficiency Condensing Boiler	Home must be heated primarily with natural gas	\$ 200.00	\$ 160.00	per unit	Existing AFUE $\leq$ 82% Install AFUE $\geq$ 90%; Integral water heater may qualify for multiple rebates
22 High Efficiency Condensing Furnace	Home must be heated primarily with natural gas	\$ 135.00	\$ 108.00	per unit	Existing AFUE $\leq$ 80% Install AFUE $\geq$ 90%
23 High Efficiency Gas Room Heater	Home must be heated primarily with natural gas	\$ 106.00	\$ 85.00	per unit	Existing AFUE $\leq$ 75% Install AFUE $\geq$ 80%; Must be sealed combustion direct vent; No unvented heaters.
24 Programmable Thermostat	Home must be heated primarily with natural gas	\$ 30.00	\$ 30.00	per unit	Existing manual thermostat Install programmable unit, maximum 2 per customer
25 In-Home Energy Audit	See NOTES 2 and 3 below	NA	NA	per home	See NOTES 2 and 3 below

**General notes:**

The program, incentives, rebates, qualifying criteria, measures, etc are subject to change or termination without notice.  
 All incentives/rebates not to exceed cost, whichever is less.  
 Rebate to be approximately 50% of unit cost without regard to SPB < 1.5 years in order to maximize rebates.  
 Rebate should be less than 50% of NPV of gas saved.

NOTE 1: CFL Distribution methods for South Dakota Residential Electric customers may be: 1) Mail-In rebate and 2) CFL In-Store Coupon twice a year (Fall and Spring)

NOTE 2: South Dakota Residential electric and natural gas space and/or water heating customers may be eligible for an In-Home Energy Audit.

NOTE 3: The In-Home Energy Audit may be ran close to the same as it is in Montana including (if applicable): installation of hot water pipe wrap and water heater tank wrap, installation of water measures (1 low-flow showerhead, 2 bathroom aerators, and 1 kitchen aerator).

## 2015-2016 South Dakota Residential New Construction Program (Electric and Natural Gas)

### Residential New Construction Electric and Natural Gas Rebate Measures

Measures	Minimum Requirements	Preferred Contractor Rebate (\$/unit)	Self-Installed or Non-Preferred Contractor Rebate	Units	Qualifiers
1 Compact Fluorescent Lamp (CFL) Fixture	Hard-wired ballast	\$ 5.00	\$ 5.00	per unit	Energy Star rated CFL
2 R-11 (Steel Doors with foam core)	Replace standard R-3 exterior door (minimum of two exterior doors)	\$ 15.00	\$ 15.00	per door	Home must be heated exclusively with electricity
3 R-5 (Composite Doors with foam core)	Replace standard R-3 exterior door (minimum of two exterior doors)	\$ 5.00	\$ 5.00	per door	Home must be heated exclusively with electricity
4 Energy Star TV	Energy Star TV	\$ 2.50	\$ 2.50	per unit	Energy Star rated
5 Faucet Aerators	0.5 GPM - minimum of 3 faucets (Water Sense labeled only)	\$ 3.00	\$ 3.00	per unit	Home water heating exclusively with electricity
6 Faucet Aerators	1.5 GPM - minimum of 3 faucets (Water Sense labeled only)	\$ 2.00	\$ 2.00	per unit	Home water heating exclusively with electricity
7 Heat Pump - Ground or Water-Source (Desuperheater)	Home water heating exclusively with electricity.	\$ 75.00	NA	per unit	DHW water heating heat recovery unit with existing GSHP
8 Low-Flow Showerheads	2.00 GPM (Water Sense Labeled only)	\$ 2.00	\$ 2.00	per showerhead	Home water heating exclusively with electricity
9 Pool Pump Timers	Pool Pump Timers	\$ 25.00	\$ 25.00	per unit	Assumes a reduction of 67% in pump use. Applicable to pools and hot tubs.
10 Refrigerator/Freezer - Energy Star	Energy Star rated > 7.75 cuft	\$ 15.00	\$ 15.00	per unit	Energy Star rated > 7.75 cuft
11 Water Heater Thermostat Setback	120 degrees	\$ 3.00	\$ 3.00	per unit	Home water heating exclusively with electricity
12 High Efficiency Condensing Boiler	Home must be heated primarily with natural gas	\$ 200.00	\$ 160.00	unit	Install AFUE ≥ 90% instead of standard AFUE ≤ 82%
13 High Efficiency Condensing Furnace	Home must be heated primarily with natural gas	\$ 135.00	\$ 108.00	unit	Install AFUE ≥ 90% instead of standard AFUE ≤ 80%

**General notes:**

The program, incentives, rebates, qualifying criteria, measures, etc are subject to change or termination without notice.

All incentives/rebates not to exceed cost, whichever is less.

Rebate to be approximately 50% of unit cost without regard to SPB < 1.5 years in order to maximize rebates.

Rebate should be less than 50% of NPV of gas saved.

NOTE 1: CFL Distribution methods for South Dakota Residential Electric customers may be: 1) Mail-In rebate and 2) CFL In-Store Coupon twice a year (Fall and Spring)

2014-2015 South Dakota Commercial Existing Construction Program (Electric and Natural Gas)

Commercial Existing Construction Electric and Natural Gas Rebate Measures

Measures	Minimum Requirements	Rebate (\$/unit)	Units	Qualifiers
1 One or Two Lamp Fixture 1/1, 2/1 (lamp/ballast)		\$ 1.00 per fixture		Fully Electronic Ballast
2 Three Lamp Fixture 3/1, 3/2 (lamp/ballast)**		\$ 18.00 per fixture		Fully Electronic Ballast, ***Tandem wired fixture using one ballast for two fixtures count as one fixture
3 Four Lamp Fixture 4/1, 4/2 (lamp/ballast)		\$ 12.00 per fixture		Fully Electronic Ballast
4 T-8 lamp 4 foot		\$ 1.00 per lamp <sup>1</sup>		<sup>1</sup> An additional 5.0/10Watt saved compared to a standard 32 Watt T-8 lamp will be applied for low-Wattage T-8 lamps typically produce lower lumen levels compared to standard T-8 lamps
5 MV, HPSV or MH to T-8		\$ 0.35 per Watt saved		****On Approved Design. Difference in total Wattage between equipment removed and equipment installed
6 Other Approved Lighting Retrofits		\$ 0.10 per Watt saved		****On Approved Design. Difference in total Wattage between equipment removed and equipment installed
7 Compact Fluorescent Lamp (CFL)		\$ 1.00 per lamp		ENERGY STAR <sup>®</sup> approved. Replaces an incandescent lamp of no more than four times the CFL Wattage
Hard-Wired CFL Fixture ***		\$ 5.00 per lamp		***Only ENERGY STAR rated CFLs are eligible for rebate. For a current qualified list see <a href="http://www.energystar.gov">www.energystar.gov</a> and follow the path for CFL Lighting. Must be listed on ENERGY STAR qualified commercial LED lighting list or provide independent DOE certified laboratory testing documents IESNA LM-79 Q8, LM-80-08 and Lighting Facts label. Independent testing documents and product criteria must be provided.
LTD Solid State White Lighting for Exterior Landscape, Signage & Structure Only (This rebate measure only applies to lighting not addressed by the Illuminating Engineering Society of North America)		\$ 0.20 per Watt saved		
8 (IESNA) standards or adopted code)		\$ 10.00 per sign		
9 LED Face Exit Sign		\$ 30.00 per unit		
10 Photocell		\$ 0.10 per Watt controlled		Exterior Lighting Only
Occupancy Sensor or Sweep Control Sensor rebates are available for installations where no lamp retrofit took place. Sensor rebates are available for lamp retrofit projects using the post retrofit Wattages		\$ 0.09 per Watt controlled		<b>Lighting Wattage Controlled</b>
		\$ 0.08 per Watt controlled		100-300 Watts
		\$ 0.07 per Watt controlled		301-400 Watts
		\$ 0.06 per Watt controlled		401-600 Watts
		\$ 0.05 per Watt controlled		601-1000 Watts
				1001-3000 Watts
				more than 3000 Watts
Daylighting Controls - Dimming-Continuous, Fluorescent Fixtures Continuous Dimming, Fluorescent Fixtures (Day-Lighting)		\$ 0.30 sq. ft. of dimmable building area		Must be within 15 ft of daylighting source
12 Anti-Sweat (Humidistat) Controls	Variable Temp. Controls (Humidistat)	\$ 2.00 per linear foot of case		Variable Temp. Controls (Humidistat)
13 Automated Exhaust VFD Control - Parking Garage CO sensor	VFDs & CO Sensors	\$ 450.00 per fan HP		Base-case is constant volume continuous duty fan(s)
14 Centrifugal Chiller - VSD Remodel for Existing	Variable speed drive (VSD)	\$ 0.05 per building square foot		
15 Compressor VSD Retrofit	Refrigeration compressor VSD Retrofit	\$ 15.00 per compressor HP		Refrigeration systems only
16 Cooking Tower - Two-Speed Fan Motor	Two-Speed lower fan motor replace Single-Speed fan motor	\$ 1.25 per chiller ton		
17 Cooking Tower-VSD Fan Control	Variable Speed lower fan motor replace Single-Speed fan motor	\$ 5.00 per chiller ton		
18 Dishwashing - Commercial Chemical System	Energy Star rated Low-Temp Commercial Dishwasher	\$ 400.00 per Measure Installed		Water heating exclusively with electricity
19 Energy Star - Computer	Energy Star rated computer	\$ 2.00 per computer		Features include enabled sleep mode
20 Energy Star - Printers	Energy Star rated printer	\$ 7.00 per printer		Energy Star rated printer
21 Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	\$ 2,500.00 per Measure Installed		Central heating exclusively with electricity
22 Floating Head Pressure Control	Install Floating Head Pressure Control	\$ 50.00 per refrigeration ton		Pressure control ≤ 70 F with balanced port expansion valves
23 Hot Food Holding Cabinets - Commercial	Energy Star Commercial Hot Food Holding Cabinets	\$ 75.00 per cabinet		Energy Star Commercial Hot Food Holding Cabinets
24 Hot Water (EHW) Pipe Insulation	Install insulation (R-4) all accessible pipe	\$ 1.50 linear foot		Water heating exclusively with electricity
25 Hotel Key Card or DS Room Energy Control System	Key card system or OS to control room HVAC during non-occupied periods	\$ 100.00 per room		Heating and cooling exclusively with electricity
26 Insulation (Wall) s R-11 existing insulation	R 20.5 (Code) above grade walls	\$ 0.30 per sq. ft. of wall		Heating exclusively with electricity
27 Motor - Fan System - Variable Speed Control	Fan System Optimization w/ VSD	\$ 100.00 per motor horsepower		No Soft-Starts
28 Motor - Pump System - Variable Speed Control	Pump System Optimization w/ VSD	\$ 100.00 per motor horsepower		No Soft-Starts & not applicable for irrigation pumping
29 Night Covers for Display Cases (4.0 linear feet = 1.0 measure)	Night Covers for Open Refrigerated Display Cases	\$ 25.00 per Measure Installed		4.0 linear feet of night cover = 1.0 measure
30 Reduced Speed or Cycling of Evaporator Fans	VFD on Evaporator Fans (Evap Fan Control on Walk-In)	\$ 70.00 per fan HP		
31 Refrigeration with Heat Recovery	Heat Recovery from Refrigeration Systems. Applied to Water Heating	\$ 250.00 per refrigeration ton		Existing water heating exclusively with electricity
32 Residential-Size Refrigerator	Energy Star rated Residential-Size Refrigerator ≥ 7.75 cu ft	\$ 13.00 per unit installed		Replacing standard efficiency unit
33 Server (Early Retirement)	Removal of inefficient standard server & replace with Energy Star qualified server	\$ 50.00 per server		Removal of inefficient standard server & replace with Energy Star qualified server
34 Server Virtualization (4:1)	Using software remove a minimum of four servers with one physical server	\$ 75.00 per unit		Using software remove a minimum of four servers with one physical server
35 Special Glass Doors for Refrigerated Reach-in Cases	Do Not Require Anti-Sweat Heating	\$ 15.00 per linear foot of glass		
36 Strip Curtains for Freezer Walk-ins	Strip Curtains for Freezer Walk-ins	\$ 5.00 per sq ft of curtain		
37 Thermostat - Programmable	Programmable Thermostat	\$ 0.010 per sq ft of control area		Applicable to spaces that are heated and cooled exclusively with a heat pump
38 Thermostat - Programmable	Programmable Thermostat	\$ 0.012 per sq ft of control area		Applicable to spaces that are heated exclusively with electricity
39 Refrigerated Wending Machine	Energy Star rated Refrigerated Wending Machines - High-Efficiency	\$ 75.00 per Measure Installed		Leased equip does not apply
40 High Efficiency Furnace/Boiler ≥ 90% AFUE or ≥ 90% thermal efficiency (TE)	Facility must be heated primarily with natural gas	\$ 3.25 per kbtu-hr		Instead of installing a new standard AFUE ≤ 78% boiler/furnace
41 High Efficiency Water Heater EF ≥ 0.62 or ≥ 90% thermal efficiency (TE)	Facility must be heated primarily with natural gas	\$ 2.50 per kbtu-hr		Instead of installing a new EF ≤ 0.584 unit or ≤ 80% thermal efficiency
42 Ceiling Insulation R ≥ 38	Facility must be heated primarily with natural gas	\$ 0.30 per sq ft.		Existing R ≥ 11
43 Exterior Wall Insulation (above grade, R ≥ 21)	Facility must be heated primarily with natural gas	\$ 0.40 per sq ft.		Existing R ≥ 9, exterior walls only

Note: Units of kbtu-hr refer to appliance output kbtu-hr not input.  
 Note: The program, incentives, qualifying criteria, measures, etc. are subject to change or termination without notice.  
 Note: All incentives/rebates not to exceed cost, whichever is less.

## 2015-2016 South Dakota Commercial New Construction Program (Electric and Natural Gas)

### Commercial New Construction Electric and Natural Gas Rebate Measures

Measures	Minimum Requirements	Rebate (\$/unit)	Units	Qualifiers
1 Compact Fluorescent Lamp (CFL) - Integral (screw-in) or Modular *** - Hard-Wired CFL Fixture ***		\$ 1.00 per lamp \$ 5.00 per lamp		ENERGY STAR® approved. Replaces an incandescent lamp of no more than four times the CFL wattage. ***Only ENERGY STAR rated CFLs are eligible for rebate. For a current qualified list see <a href="http://www.energystar.gov">www.energystar.gov</a> and follow the path for CFL lighting.
2 LED Solid State White Lighting for Exterior Landscape, Signage & Structure Only. (This rebate measure only applies to lighting not addressed by the Illuminating Engineering Society of North America (IESNA) standards or adopted code.)				***Only ENERGY STAR rated CFLs are eligible for rebate. For a current qualified list see <a href="http://www.energystar.gov">www.energystar.gov</a> and follow the path for CFL lighting. Must be listed on ENERGY STAR qualified commercial LED lighting list or provide independent DOE certified laboratory testing documents IESNA LM-79-08, LM-80-08 and Lighting Facts label. Independent testing documents and product criteria must be provided.
3 MV, HPSV or MH to T-8		\$ 0.20 per Watt saved \$ 0.35 per Watt saved		****On Approved Design. Difference in total wattage between equipment removed and equipment installed.
4 Anti-Sweat (Humidistat) Controls	Variable Temp. Controls (Humidistat)	\$ 2.00 per linear foot of case		Variable Temp. Controls (Humidistat)
5 Automated Exhaust VFD Control - Parking Garage CO sensor	VFDs & CO Sensors	\$ 450.00 per fan HP		Base-case is constant volume continuous duty fan(s)
6 Automated Ventilation VFD Control (Occupancy Sensors / CO2 Sensors)	Demand Controlled Ventilation (VFD and CO2 sensors or Occ sensors)	\$ 0.07 per sqft of area controlled		Demand Controlled Ventilation (VFD and CO2 sensors or Occ sensors)
7 Cooling Tower-Decrease Approach Temperature	10 degree to 6 degree F	\$ 10.00 per chiller ton		
8 Cooling Tower-Two-Speed Fan Motor	Two-Speed tower fan motor replace Single-Speed fan motor	\$ 1.25 per chiller ton		
9 Cooling Tower-VSD Fan Control	Variable-Speed tower fan motor replace Single-Speed fan motor	\$ 5.00 per chiller ton		
10 Defrost Demand Control - Hot Gas	Refrigerant Defrost w/ Hot Gas	\$ 1.00 per compressor HP		
11 Dishwashing - Commercial Chemical System	Energy Star rated Low-Temp Commercial Dishwasher	\$ 400.00 per Measure Installed		Water heating exclusively with electricity
12 Energy Star - Computer	Energy Star rated computer	\$ 2.00 per computer		Features include enabled sleep mode
13 Energy Star - Fax	Energy Star rated fax	\$ 1.00 per fax machine		Energy Star rated fax
14 Energy Star - Printers	Energy Star rated printer	\$ 7.00 per printer		Energy Star rated printer
15 Energy Star - Water Cooler	Energy Star rated Water Cooler (Hot/Cold Water)	\$ 1.00 per unit		Energy Star rated Water Cooler (Hot/Cold Water)
16 Exhaust Hood Makeup Air	Provide Makeup Air Directly at Exhaust Hood Instead of Pulling Conditioned Air	\$ 2,500.00 per Measure Installed		Central heating exclusively with electricity
17 Faucet Aerators	1.5 GPM Aerator	\$ 0.15 per aerator		Water heating exclusively with electricity
18 Floating Head Pressure Control	Install Floating Head Pressure Control	\$ 50.00 per refrigeration ton		Pressure control ≤ 70°F with balanced port expansion valves
19 Hot Food Holding Cabinets - Commercial	Energy Star rated Commercial Hot Food Holding Cabinets	\$ 725.00 per cabinet		Energy Star rated Commercial Hot Food Holding Cabinets
20 Hotel Key Card or OS Room Energy Control System	Key card system or OS to control room HVAC during non-occupied periods	\$ 100.00 per room		Space heating and cooling exclusively with electricity
21 Low-Flow Showerheads	2.0 GPM Showerhead	\$ 3.00 per showerhead		Water heating exclusively with electricity
22 Motor- Fan System - Variable Speed Control	Fan System Optimization w/ VSD	\$ 100.00 per motor HP		No Soft-Starts
23 Motor- Pump System - Variable Speed Control	Pump System Optimization w/ VSD	\$ 100.00 per motor HP		No Soft-Starts & not applicable for irrigation pumping
24 Optimized Variable Volume Lab Hood Design	Optimized Variable Volume Lab Hood Design	\$ 700.00 per hood		Constant volume to variable air volume
25 PC Power Supply 80+	80% Efficient Power supply for PCs	\$ 0.50 per power supply		Energy Star 5.0 rated or better
26 Reduced Speed or Cycling of Evaporator Fans	VFD on Evaporator Fans (Evap Fan Control on Walk-In)	\$ 70.00 per fan HP		
27 Refrigeration with Heat Recovery	Heat Recovery from Refrigeration System, Applied to Water Heating	\$ 250.00 per refrigeration Ton		Water heating exclusively with electricity
28 Residential-Size Refrigerator	Energy Star rated Residential-Size Refrigerator ≥ 7.75 cuft	\$ 13.00 per unit installed		Replacing standard efficiency unit
29 Special Glass Doors for Refrigerated Reach-In Cases	Do Not Require Anti-Sweat Heating	\$ 15.00 per linear foot of glass		
30 Strip Curtains for Freezer Walk-Ins	Strip Curtains for Freezer Walk-Ins	\$ 5.00 per sqft of curtain		
31 Refrigerated Vending Machine	Energy Star rated Refrigerated Vending Machines - High-Efficiency	\$ 75.00 per Measure Installed		Leased equip does not apply
32 High Efficiency (Power Burner/ Premium) Furnace/Boiler ≥90% Eff	Facility must be heated primarily with natural gas	\$ 3.25 kbtu-hr		Instead of installing a new standard AFUE ≤ 78% boiler/furnace
33 High Efficiency Water Heater (EF ≥ 0.62 or ≥90% Thermal Efficiency)	Facility must be heated primarily with natural gas	\$ 2.50 kbtu-hr		Instead of installing a new EF ≤ 0.594 unit or ≤ 80% thermal efficiency
34 Stack Heat Exchanger	Facility must be heated primarily with natural gas	\$ 0.50 kbtu-hr		
35 Water Heater Tank Blanket/Insulation (R ≥ 11)	Facility must be heated primarily with natural gas	\$ 35.00 unit		Existing R-0, insulation added to tank exterior

Note: Units of kbtu-hr refer to appliance output kbtu-hr not input.

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Note: All incentives/rebates not to exceed cost, whichever is less.



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