

MidAmerican Energy Company
 South Dakota Energy Efficiency
 Residential Gas Furnace Payback Calculator

MBTU: 60
 AFUE 0.95

Incremental Cost Above Current Code \$ 1,191.00
 Annual Savings Above Code 152.82
 Proposed Incentive \$ 400.00

Cost Before Incentive \$ 1,191.00 Payback = 8.32 Years 8
 Cost After Incentive \$ 791.00 Payback = 5.15 Years 5

Year	Gas Incremental Distribution Rate (\$/therm)	Gas PGA Rate (\$/therm)	Bill Savings	Cumulative Bill Savings
2016	\$ 0.19560	\$ 0.61928	\$ 124.53	\$ 124.53
2017	\$ 0.20000	\$ 0.64590	\$ 129.27	\$ 253.79
2018	\$ 0.20450	\$ 0.66617	\$ 133.05	\$ 386.84
2019	\$ 0.20910	\$ 0.68985	\$ 137.37	\$ 524.22
2020	\$ 0.21380	\$ 0.72923	\$ 144.11	\$ 668.33
2021	\$ 0.21861	\$ 0.78391	\$ 153.20	\$ 821.53
2022	\$ 0.22353	\$ 0.80414	\$ 157.04	\$ 978.57
2023	\$ 0.22856	\$ 0.82224	\$ 160.58	\$ 1,139.15
2024	\$ 0.23370	\$ 0.84076	\$ 164.19	\$ 1,303.34
2025	\$ 0.23896	\$ 0.85967	\$ 167.89	\$ 1,471.23
2026	\$ 0.24434	\$ 0.87902	\$ 171.67	\$ 1,642.90
2027	\$ 0.24984	\$ 0.89876	\$ 175.52	\$ 1,818.42
2028	\$ 0.25546	\$ 0.91898	\$ 179.47	\$ 1,997.89
2029	\$ 0.26121	\$ 0.93969	\$ 183.52	\$ 2,181.41
2030	\$ 0.26708	\$ 0.96081	\$ 187.64	\$ 2,369.05
2031	\$ 0.27309	\$ 0.98245	\$ 191.87	\$ 2,560.91
2032	\$ 0.27924	\$ 1.00458	\$ 196.19	\$ 2,757.10
2033	\$ 0.28552	\$ 1.02716	\$ 200.60	\$ 2,957.70
2034	\$ 0.29194	\$ 1.05027	\$ 205.11	\$ 3,162.81
2035	\$ 0.29851	\$ 1.07390	\$ 209.73	\$ 3,372.53

Notes:

Incremental cost is calculated using cost algorithms derived from the 2014-2023 Iowa Statewide Assessment

Savings are calculated based on therm algorithms derived from the results of the 2014-2023 Iowa Statewide Assessment.

Gas distribution rates and PGA rates are those for 2016-2035 included in the filed South Dakota 2013-2017 Energy Efficiency Plan