

Emissions Summary

Property

544 S 85th St
Omaha, NE 68114
Model: EPS Model

544 S 85th St 10390
544 S 85th St

Organization

Future Energy Dynamics
Larry Emanuel
402 661-9500

Builder

Omaha Construction

Inspection Status

2020-07-17
Rater ID (RTIN): 2305325
RESNET Registered
(Confirmed)

Emissions by End-Use

Carbon Dioxide (CO₂) [tons/yr]

Heating	3.8
Cooling	0.9
Water Heating	0.7
Lights & Appliances	6.4
Photovoltaics	-0.0
TOTAL	11.7

Sulfur Dioxide (SO₂) [lbs/yr]

Heating	0.4
Cooling	2.0
Water Heating	0.0
Lights & Appliances	14.2
Photovoltaics	-0.0
TOTAL	16.5

Nitrogen Oxide (NO_x) [lbs/yr]

Heating	7.5
Cooling	1.1
Water Heating	1.4
Lights & Appliances	8.4
Photovoltaics	-0.0
TOTAL	18.3

HERS Emissions Comparison

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Annual Carbon Dioxide (CO ₂) [tons/yr]	HERS Ref.	Rated Home	Savings	% Saved
Heating	11.6	4.8	6.8	58.9%
Cooling	2.2	0.8	1.3	61.6%
Water Heating	1.4	0.7	0.7	48.7%
Lights & Appliances	10.2	6.4	3.8	37%
Photovoltaics	-0.0	-0.0	0.0	0%
TOTAL	25.3	12.7	12.6	49.8%

Annual Sulfur Dioxide (SO ₂) [lbs/yr]	HERS Ref.	Rated Home	Savings	% Saved
Heating	1.5	0.5	1.0	68.4%
Cooling	4.9	1.9	3.0	61.6%
Water Heating	0.0	0.0	0.0	48.7%
Lights & Appliances	22.7	14.2	8.6	37.6%
Photovoltaics	-0.0	-0.0	0.0	0%
TOTAL	29.2	16.6	12.7	43.3%

Annual Nitrogen Oxide (NO _x) [lbs/yr]	HERS Ref.	Rated Home	Savings	% Saved
Heating	22.9	9.5	13.4	58.7%
Cooling	2.8	1.1	1.7	61.6%
Water Heating	2.7	1.4	1.3	48.7%
Lights & Appliances	13.2	8.4	4.8	36.6%
Photovoltaics	-0.0	-0.0	0.0	0%
TOTAL	41.6	20.3	21.3	51.2%

Fuel Summary

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Annual Energy Cost

Natural Gas	\$547
Electric	\$1,216

Annual End-Use Cost

Heating	\$323
Cooling	\$113
Water Heating	\$59
Lights & Appliances	\$743
Onsite Generation	-\$0
Service Charges	\$525
Total	\$1,763

Annual End-Use Consumption

Heating [Natural Gas Therms]	621.8
Heating [Electric kWh]	200.4
Cooling [Electric kWh]	1,224.3
Hot Water [Natural Gas Therms]	119.2
Lights & Appliances [Natural Gas Therms]	34.3
Lights & Appliances [Electric kWh]	8,866.2
Total [Natural Gas Therms]	775.3
Total [Electric kWh]	10,290.8
Total Onsite Generation kWh	0.0

Peak Electric Consumption

Peak Winter kW	0.87
Peak Summer kW	2.39

Utility Rates

Electricity	OPPD 2020
Natural Gas	MUD 2020

HERS Fuel Summary Comparison

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Annual Energy Cost [\$ /yr]	HERS Ref.	Rated Home	Savings	% Saved
Natural Gas	\$1,232	\$630	\$602	48.9%
Electric	\$1,803	\$1,217	\$586	32.5%

Annual End-Use Cost [\$ /yr]	HERS Ref.	Rated Home	Savings	% Saved
Heating	\$1,000	\$411	\$589	58.9%
Cooling	\$280	\$109	\$171	61.1%
Water Heating	\$115	\$59	\$56	48.9%
Lights & Appliances	\$1,116	\$743	\$373	33.4%
Onsite Generation	-\$0	-\$0	\$0	0%
Service Charges	\$525	\$525	\$0	0%
Total	\$3,035	\$1,847	\$1,188	39.1%

Annual End-Use Consumption	HERS Ref.	Rated Home	Savings	% Saved
Heating [Natural Gas Therms]	1,894.4	790.1	1,104.3	58.3%
Heating [Electric kWh]	842.2	254.6	587.6	69.8%
Cooling [Electric kWh]	3,086.9	1,184.2	1,902.7	61.6%
Hot Water [Natural Gas Therms]	232.3	119.2	113.1	48.7%
Lights & Appliances [Natural Gas Therms]	36.1	34.3	1.8	5%
Lights & Appliances [Electric kWh]	14,217.4	8,866.2	5,351.3	37.6%
Total [Natural Gas Therms]	2,162.7	943.6	1,219.2	56.4%
Total [Electric kWh]	18,146.6	10,305.0	7,841.6	43.2%
Total Onsite Generation kWh	0.0	0.0	0.0	0%

Peak Electric Consumption	HERS Ref.	Rated Home	Savings	% Saved
Peak Winter kW	1.46	0.88	0.58	39.7%
Peak Summer kW	4.59	2.45	2.14	46.7%

Utility Rates

Electricity	OPPD 2020
Natural Gas	MUD 2020

Component Loads

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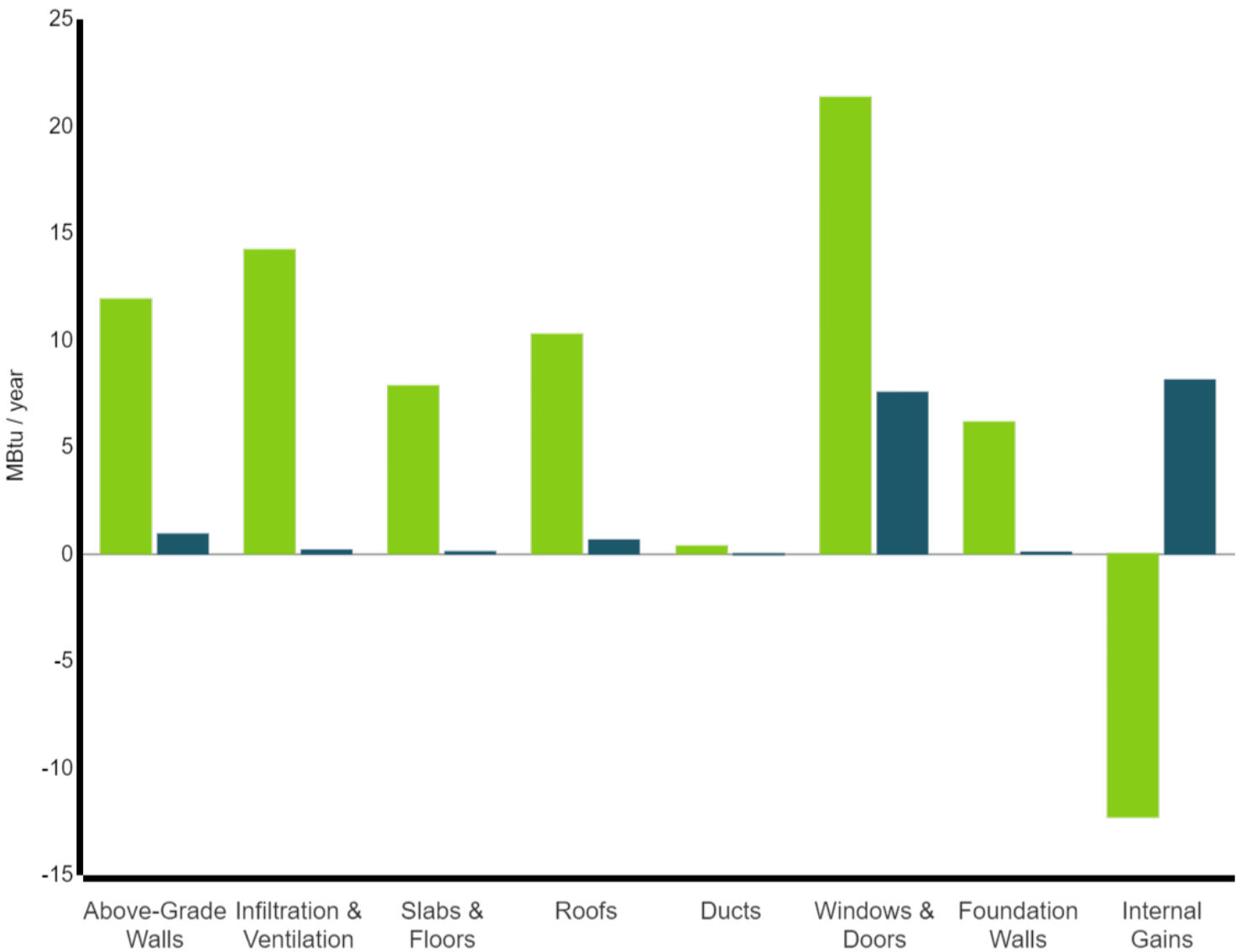
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Heating & Cooling Loads



Heating ■

Cooling ■

Component Costs

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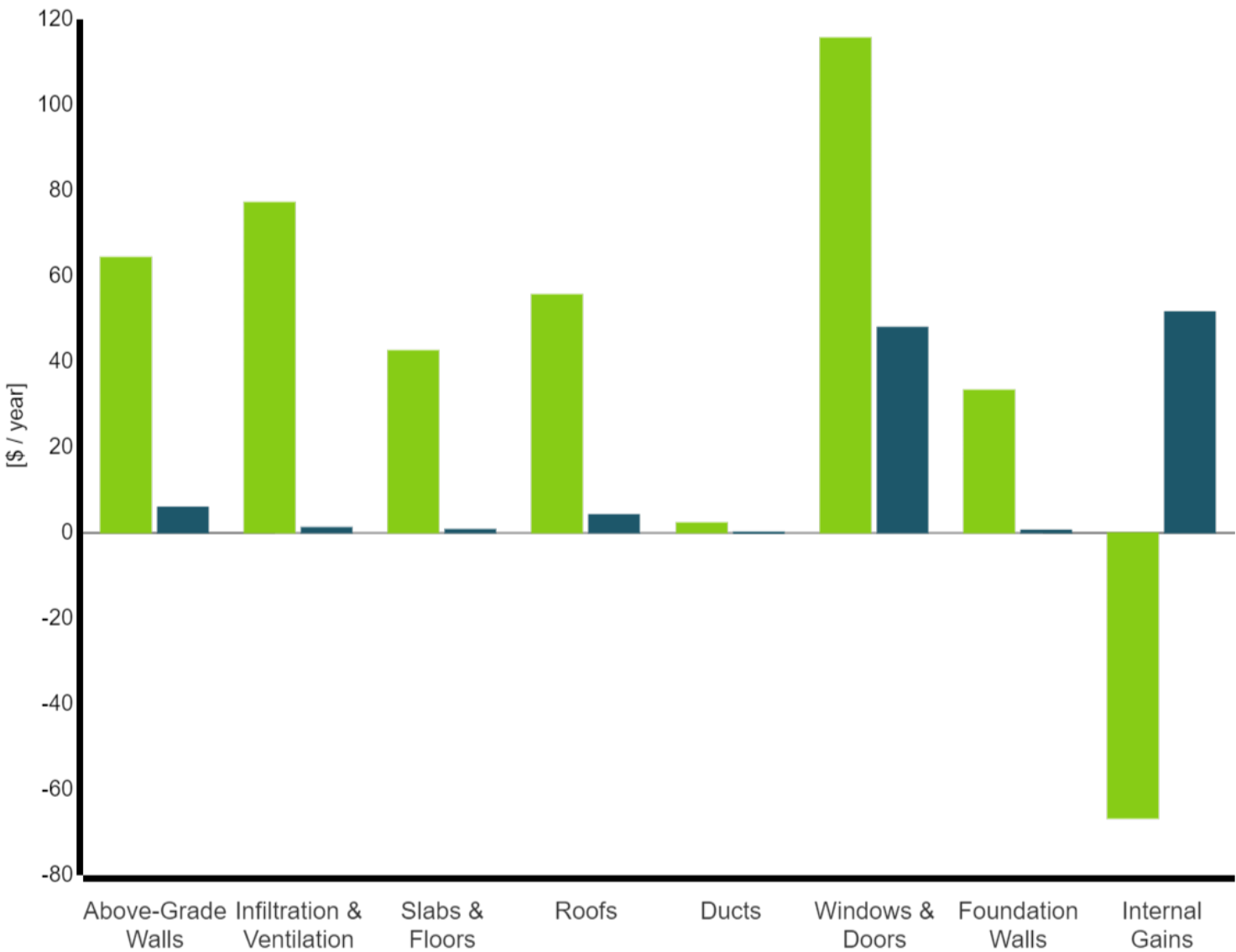
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Heating & Cooling Costs



Heating ■

Cooling ■