PHIUS+ Monitored Data

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ORCHARDS AT ORENCO I

Hillsboro, OR

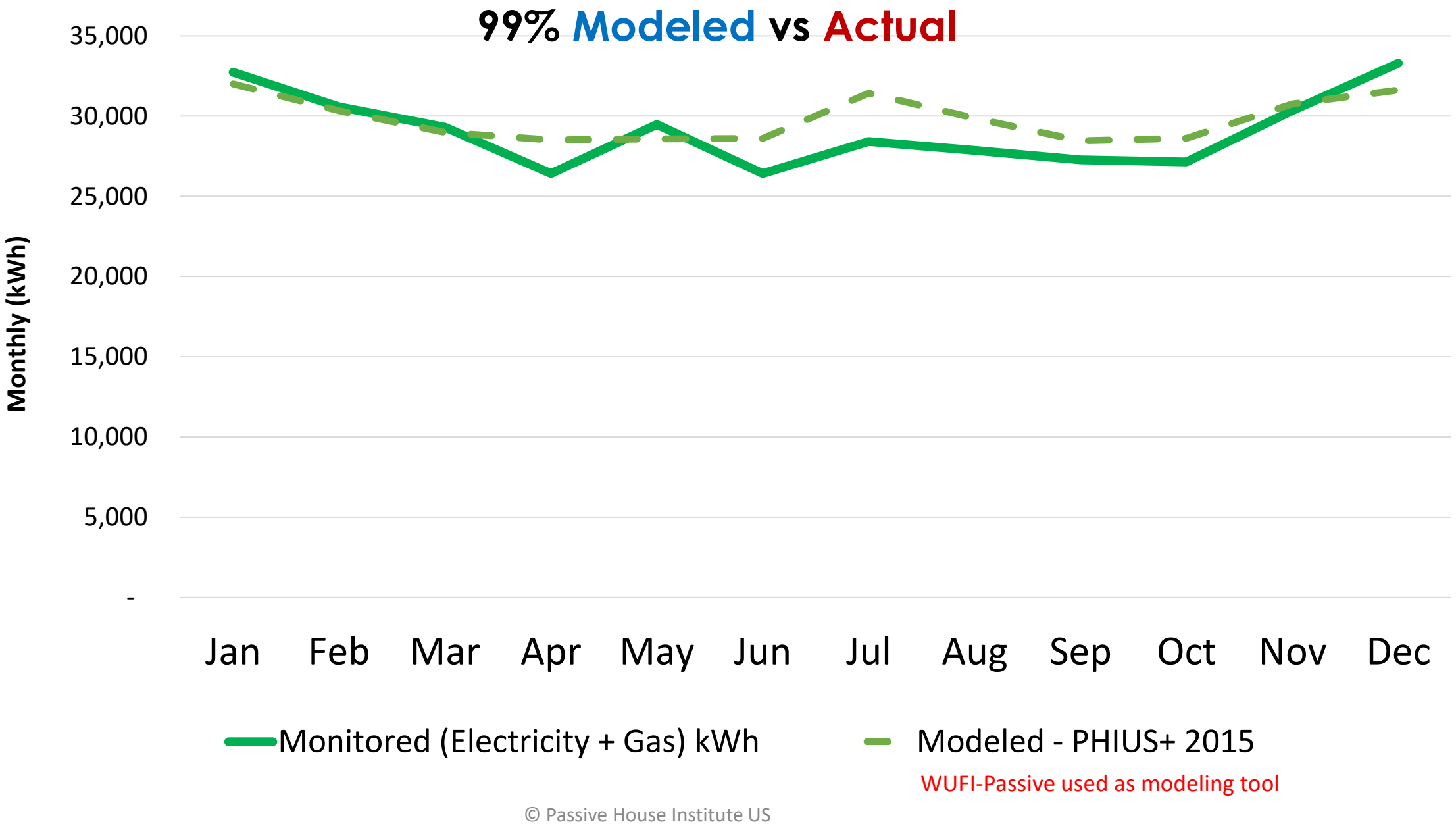
57 units

54,700 ft^2

Central HVAC
ERVs w/Ducted Heat+Cool
Gas Water Heating
Unit Meter & Common Meter

ORCHARDS AT ORENCO I

Site Energy: Monitored vs Modeled



WUFI-Passive used as modeling tool

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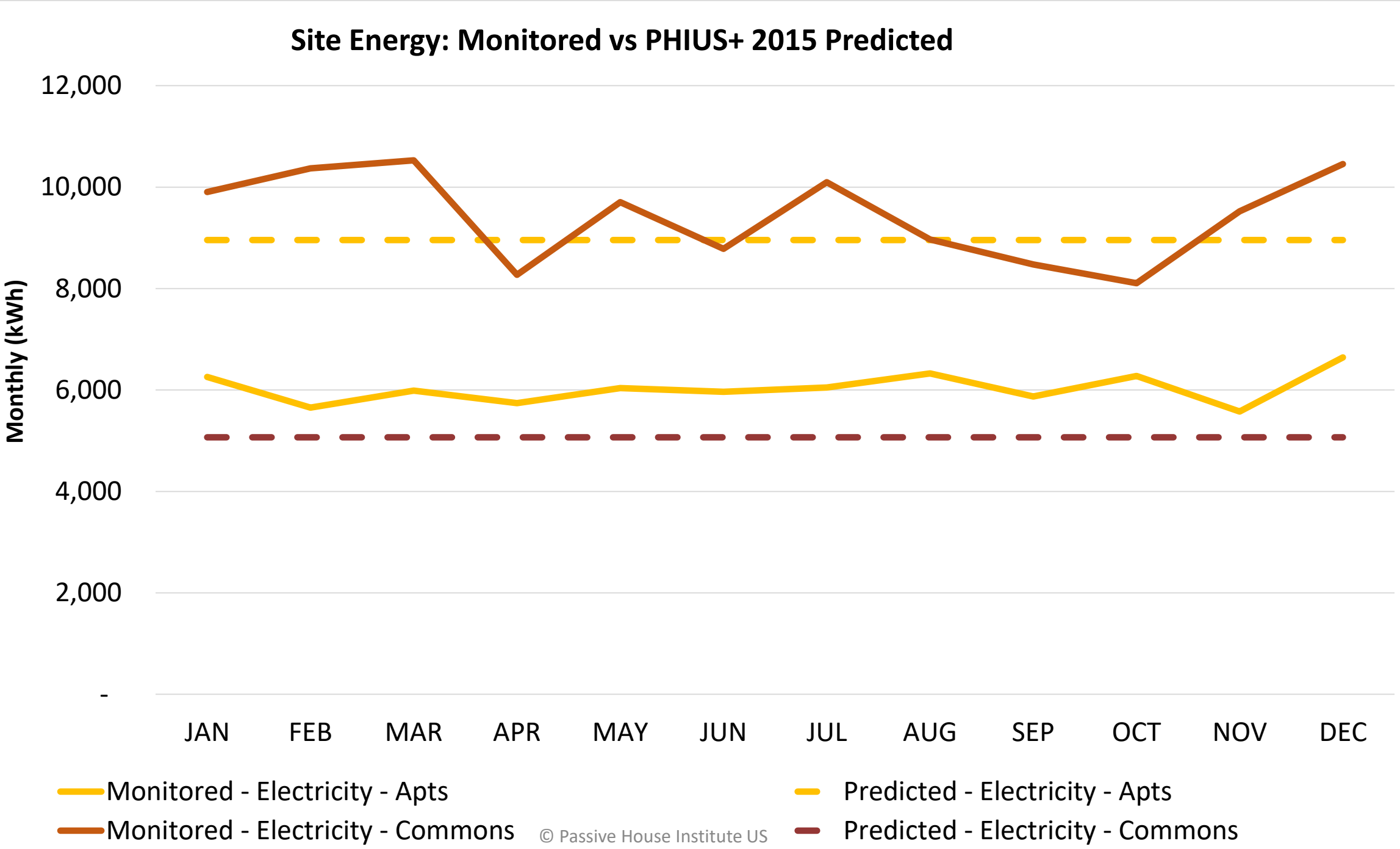
ORCHARDS AT ORENCO I



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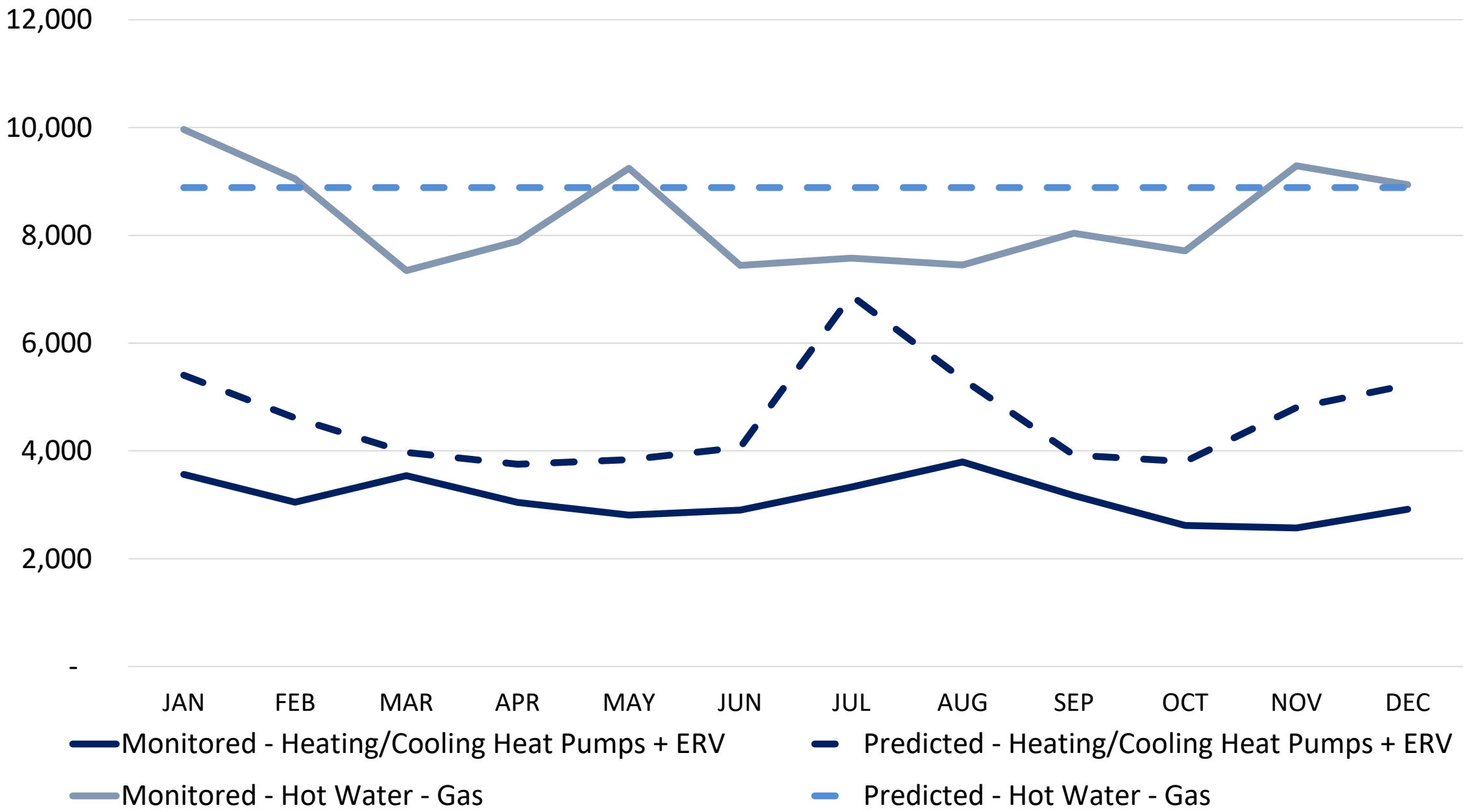
ORCHARDS AT ORENCO I

Site Energy: Monitored vs PHIUS+ 2015 Predicted



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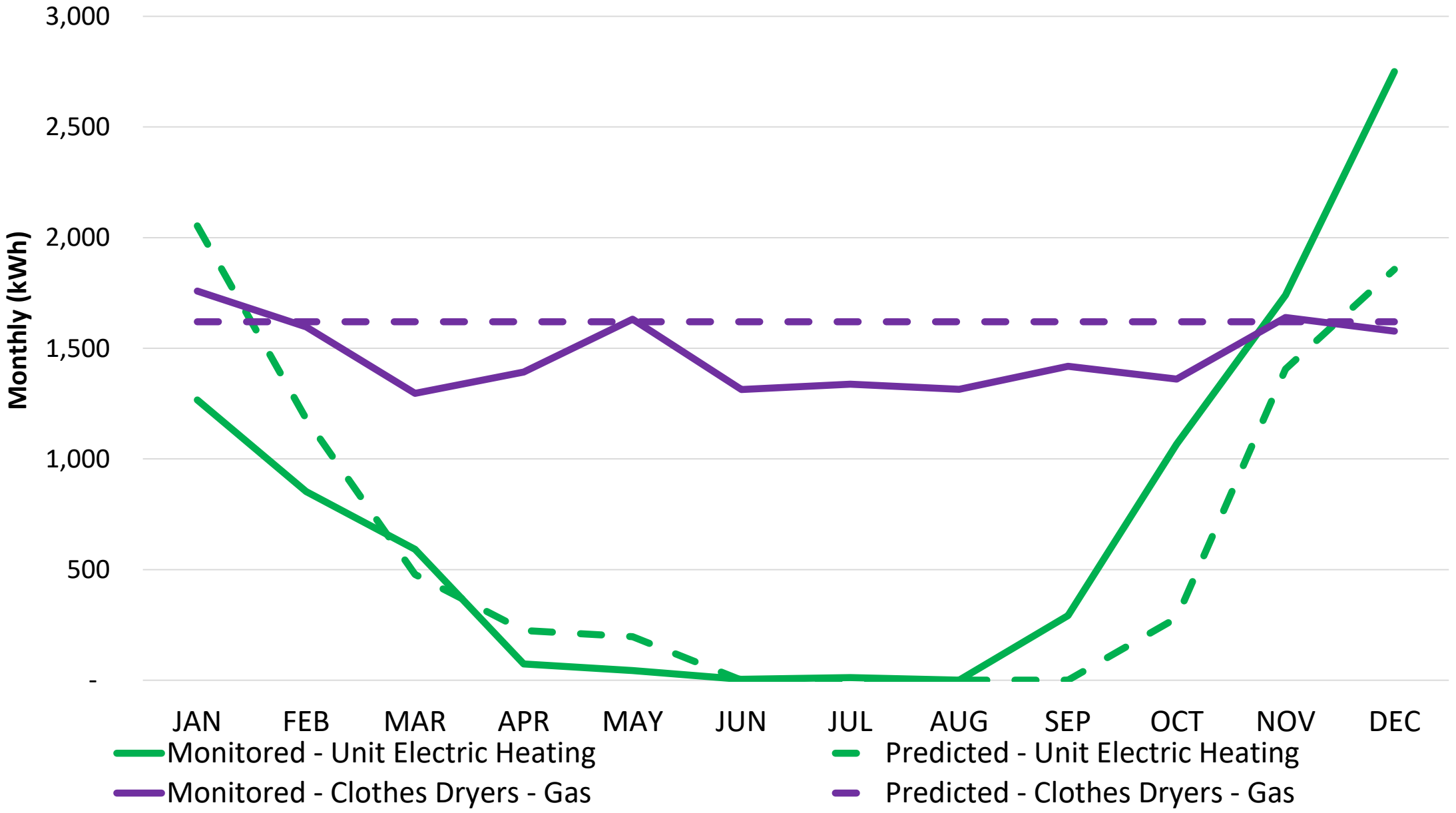
ORCHARDS AT ORENCO I

Site Energy: Monitored vs PHIUS+ 2015 Predicted



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STELLAR APARTMENTS

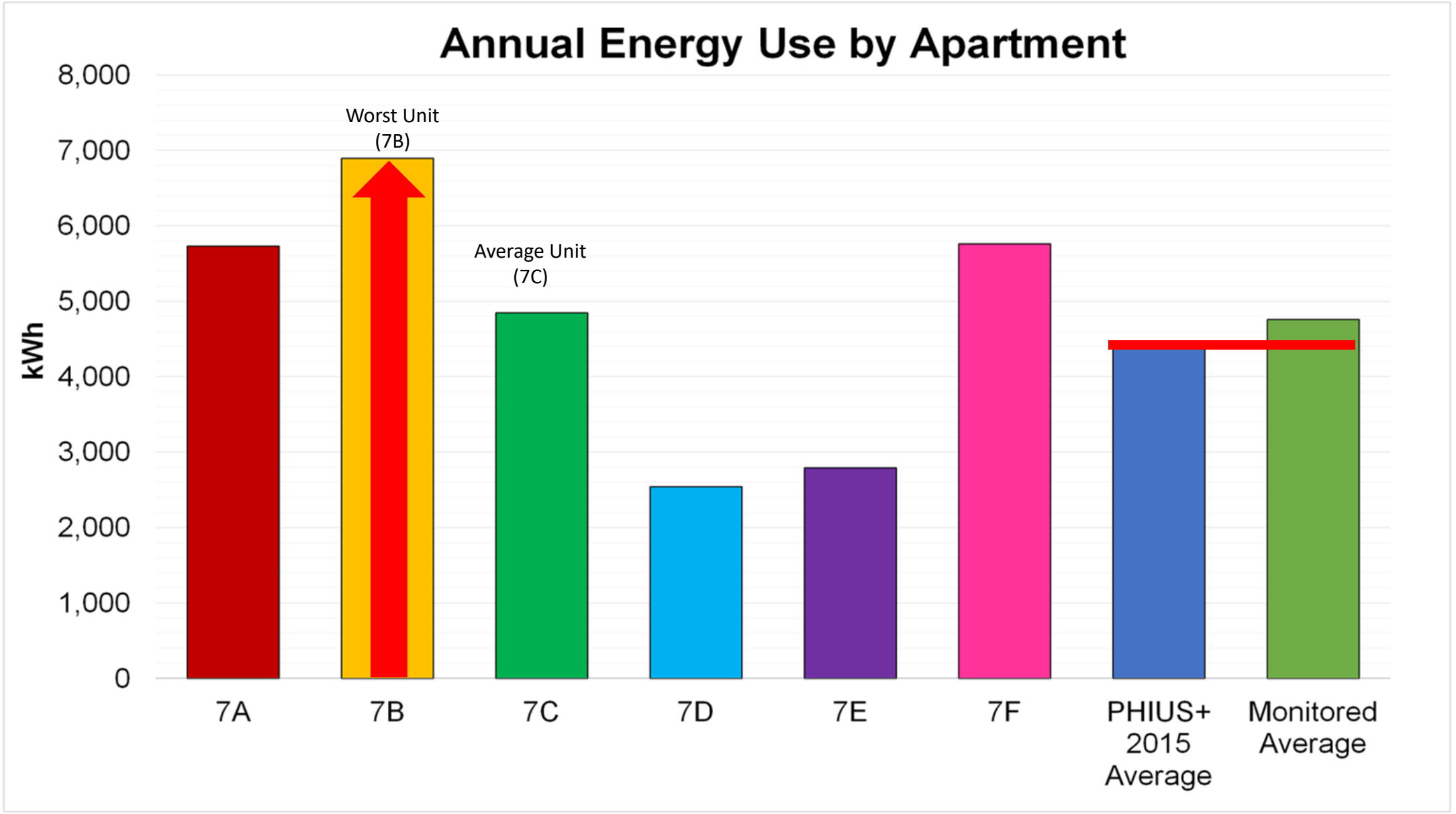
Eugene, OR

6 units

5,488 ft^2

- 8 Meters per unit
- No common spaces
- Electric Heating
- No Cooling
- Heat Pump Water Heaters in outdoor mech closet

STELLAR APARTMENTS



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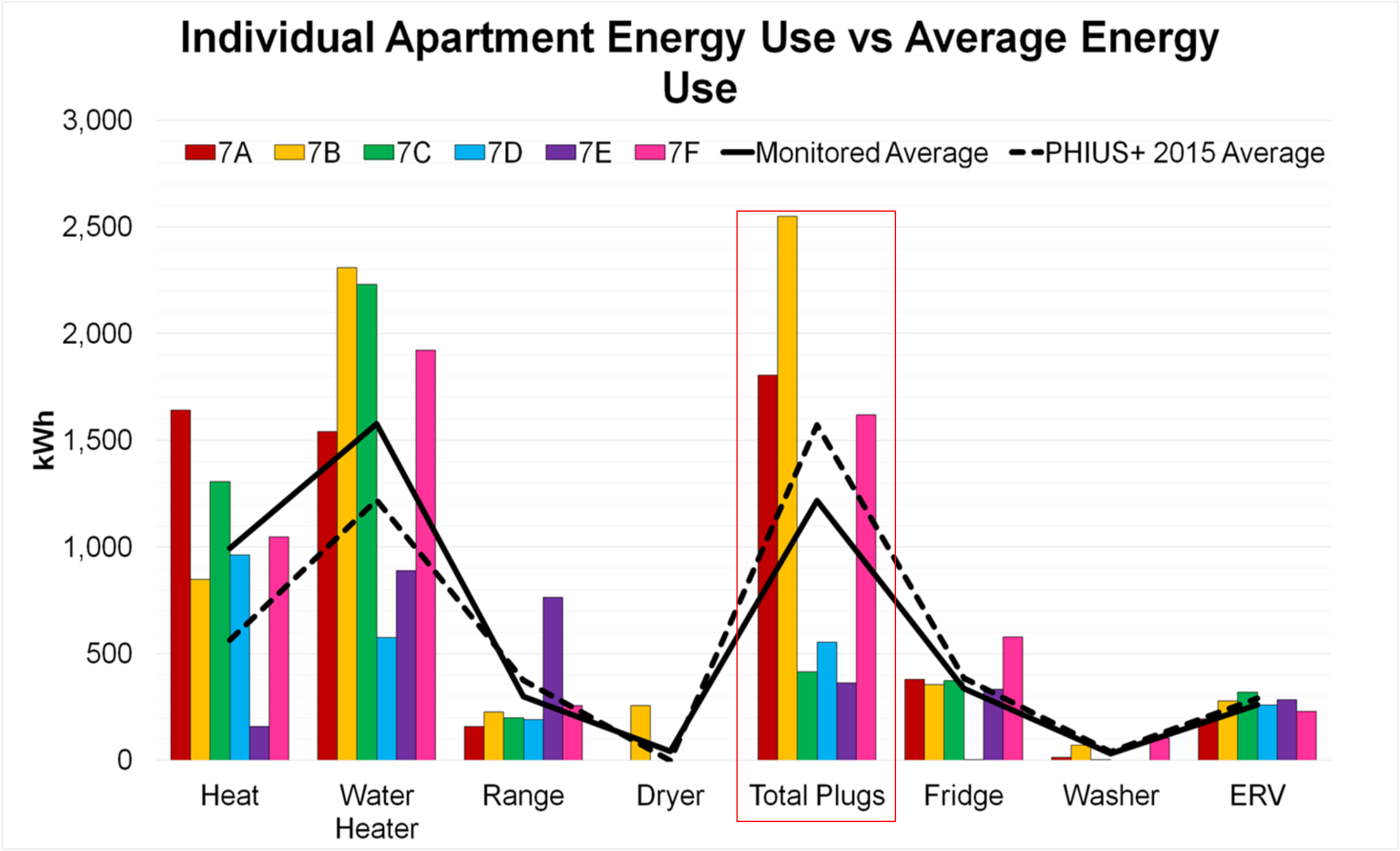
STELLAR APARTMENTS



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BAYSIDE ANCHOR

Portland, ME

45 Units
36,161 ft^2

Electric heating, no cooling
Gas Water Heating
Gas Exhaust Dryers
All other electric

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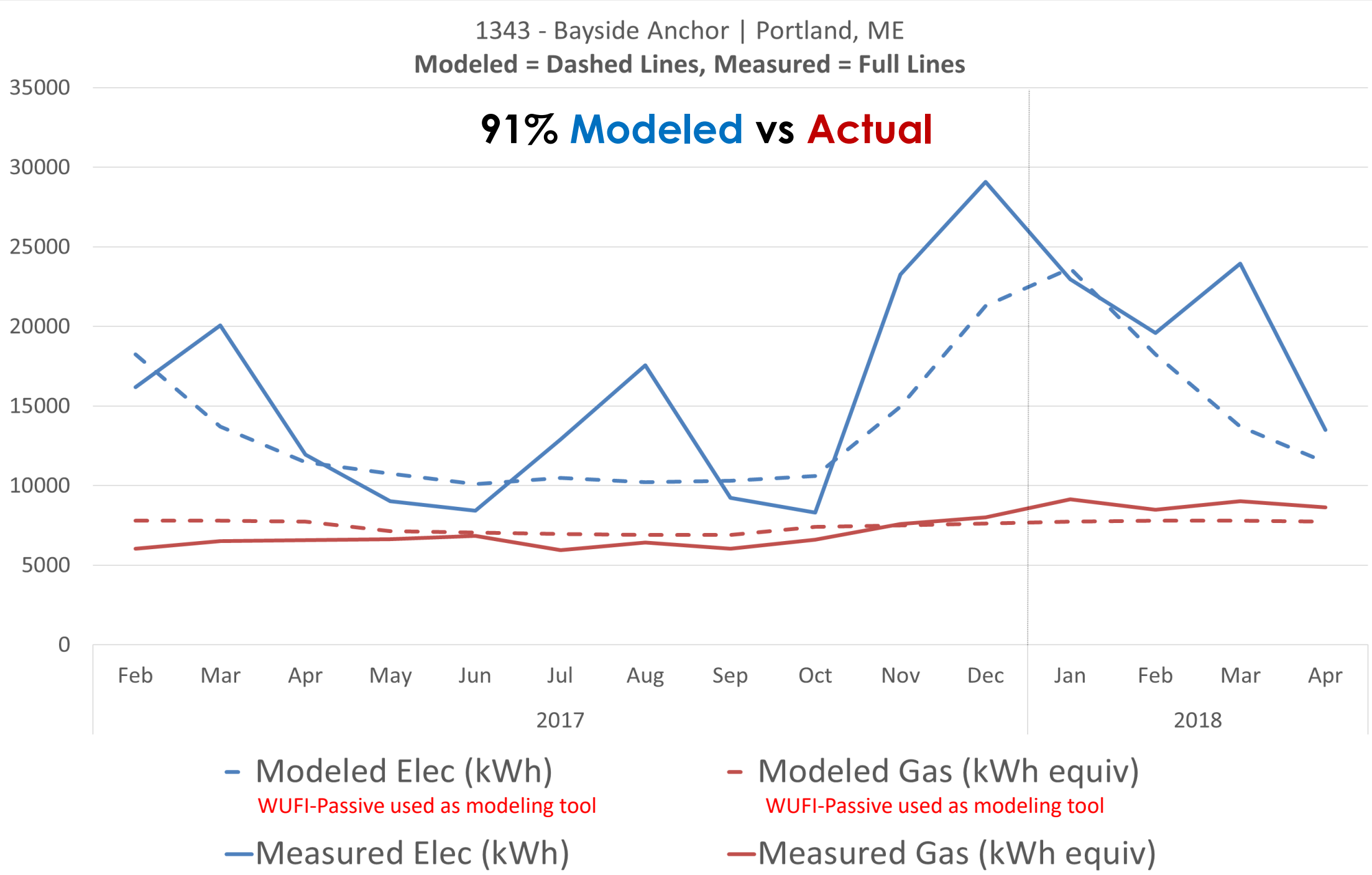
BAYSIDE ANCHOR



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SINGLE FAMILY CASE STUDIES

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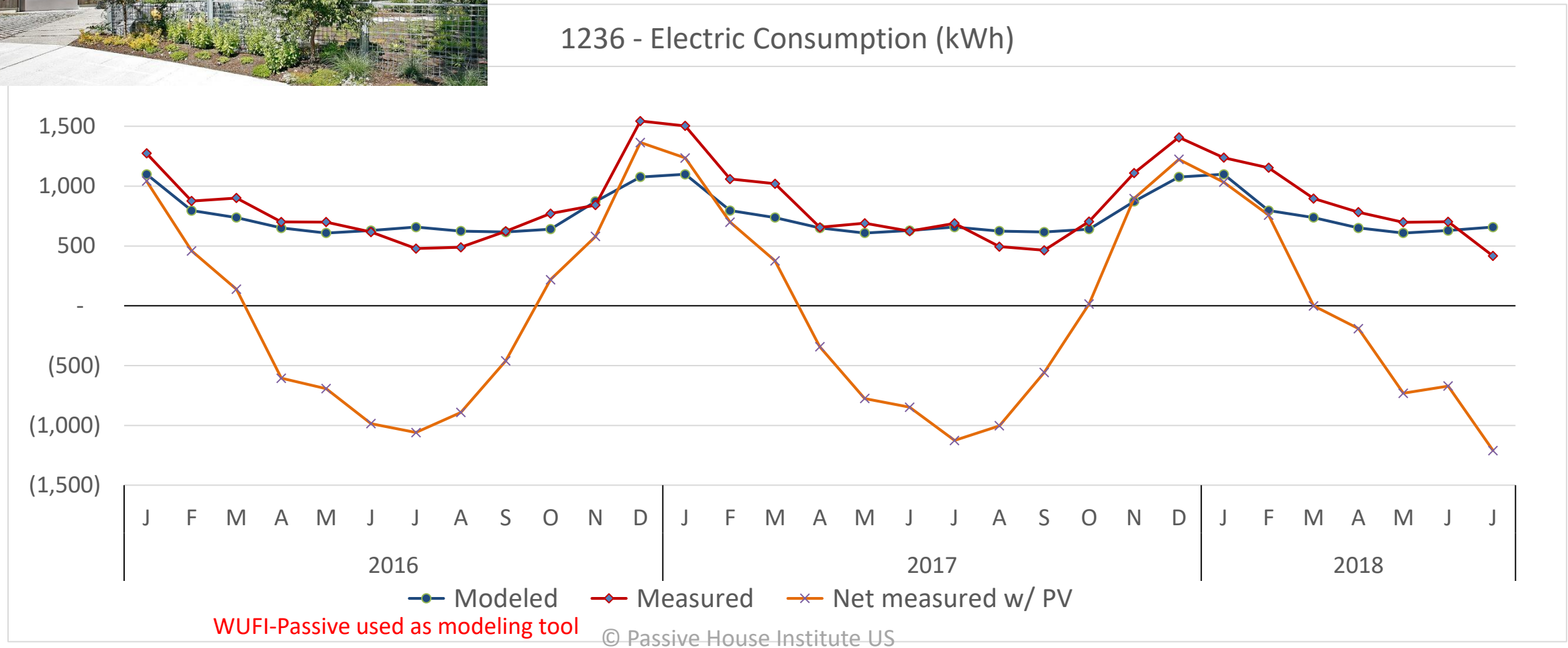
MADRONA

89% Modeled vs Actual

Type: Single family
Occupants: 4
Location: Seattle, WA
CPHC: Dan Whitmore



WUFI-Passive used as modeling tool

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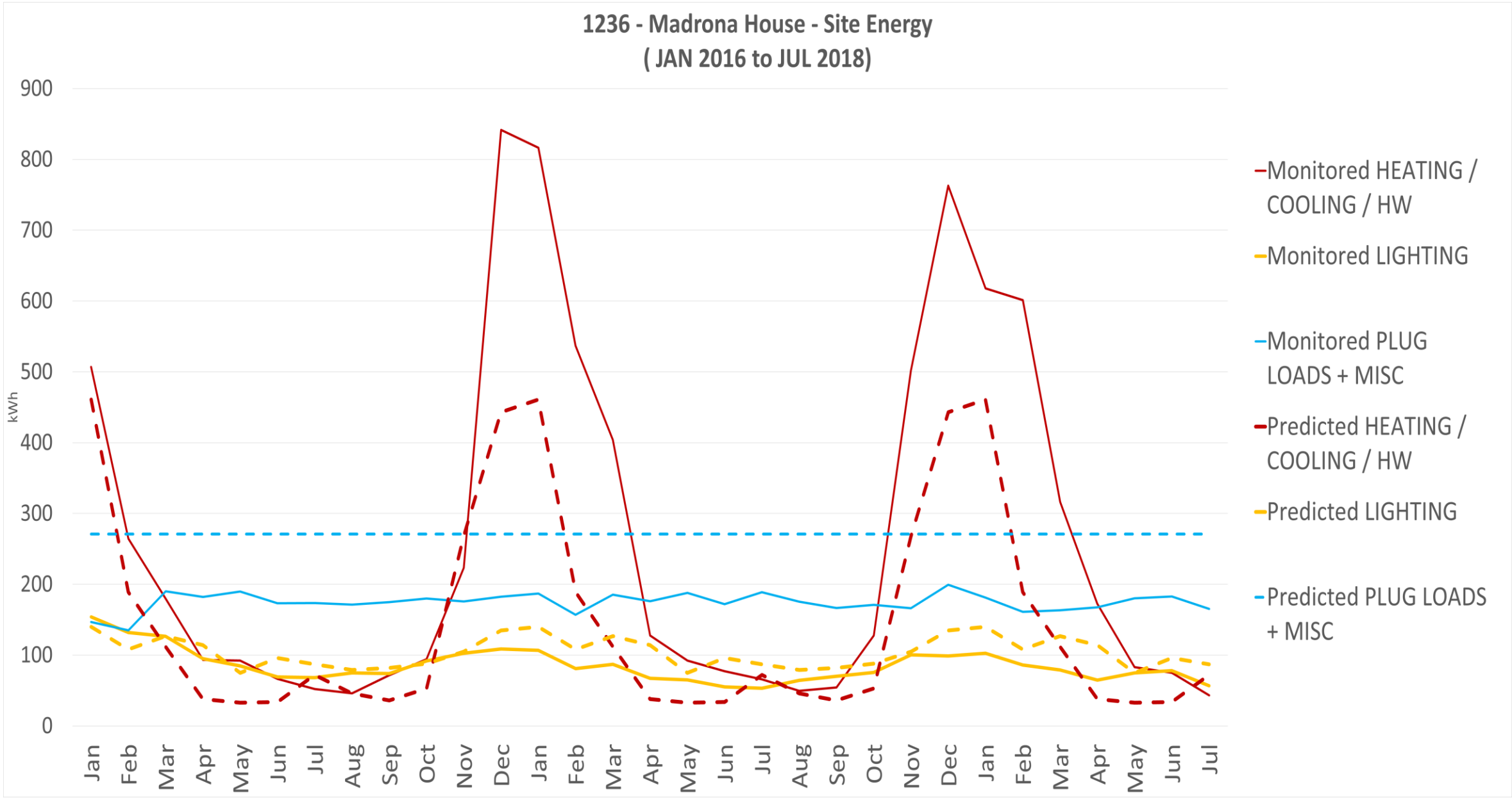
MADRONA



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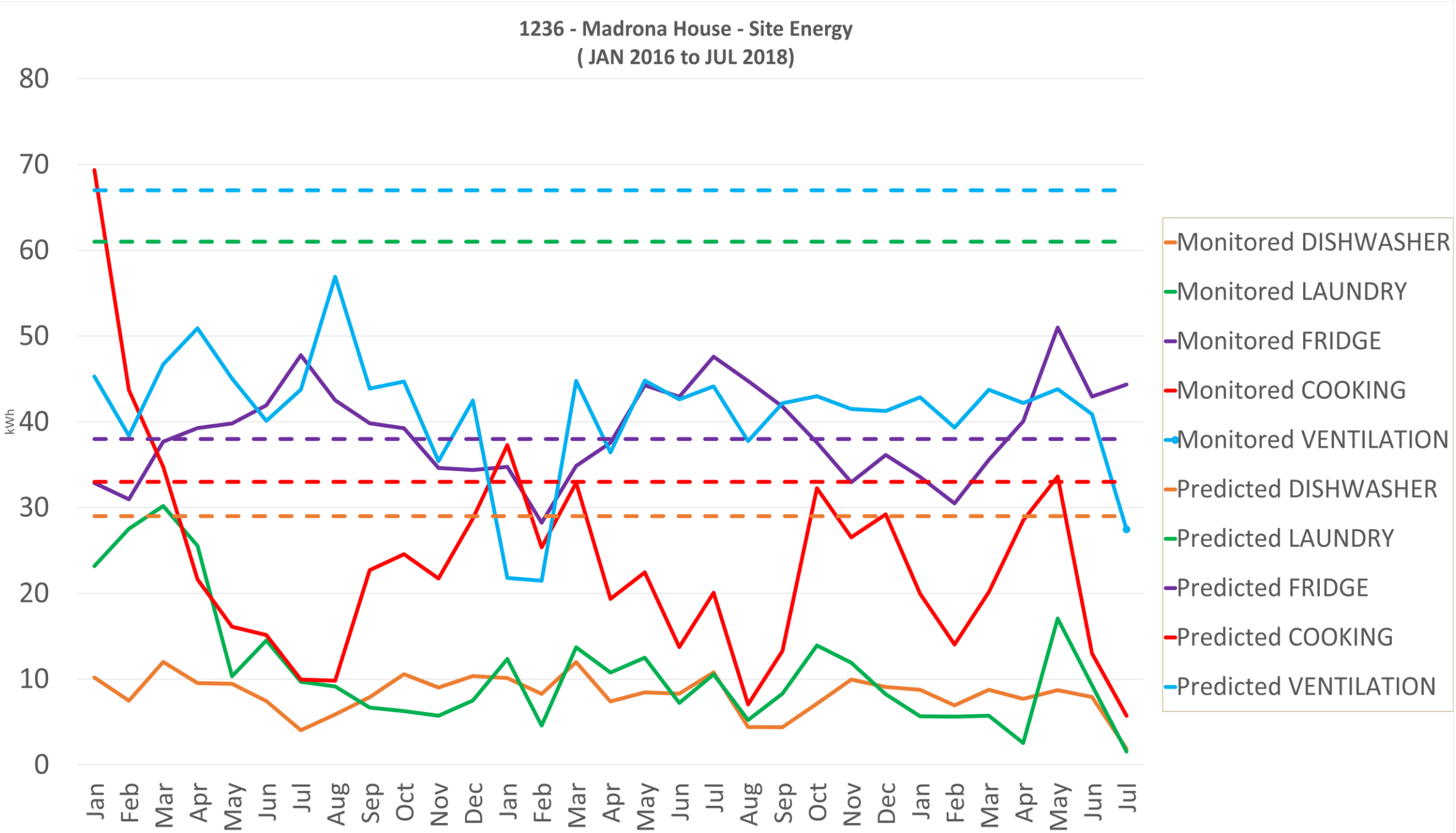
MADRONA



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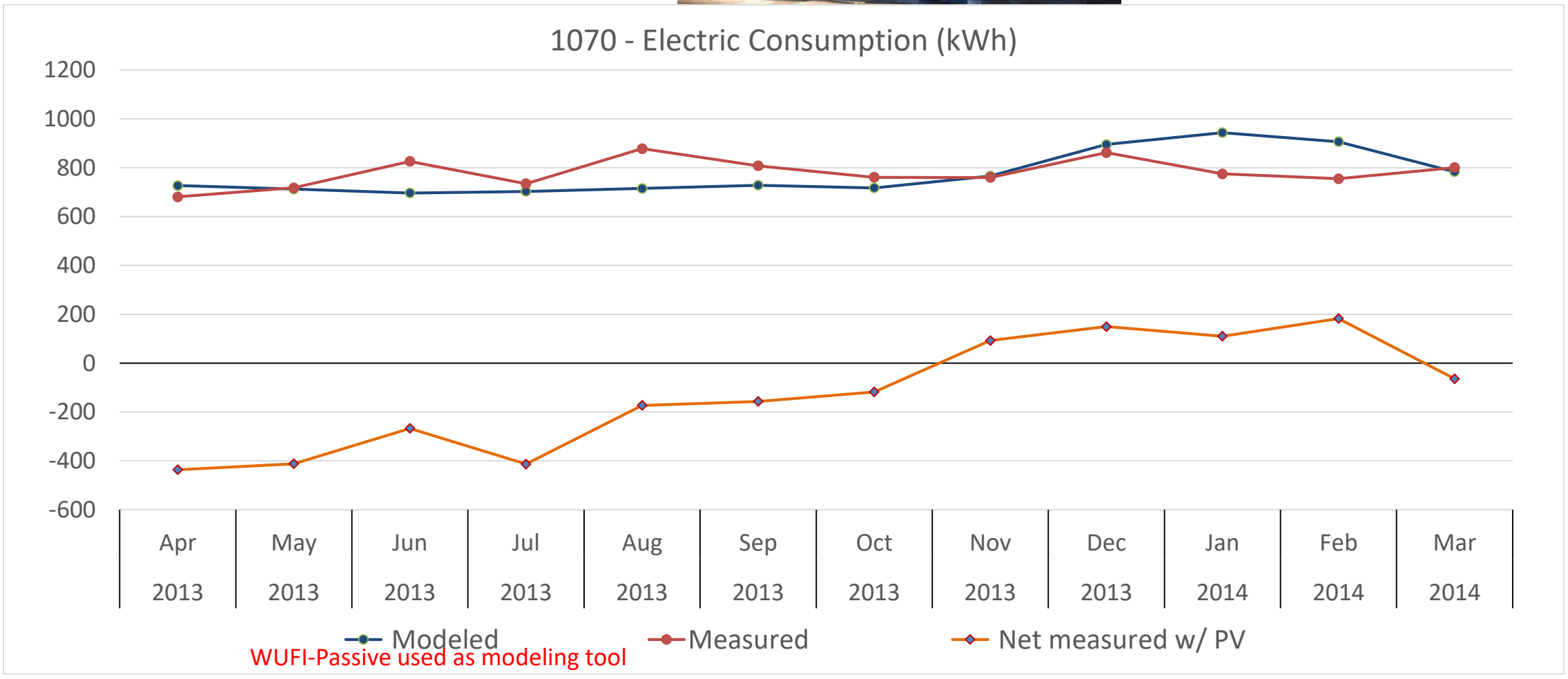
COTTLE ZEH

99% Modeled vs Actual

Type: Single family
Occupants: 3
Location: San Jose, CA
CPHC: Allen Gilliland



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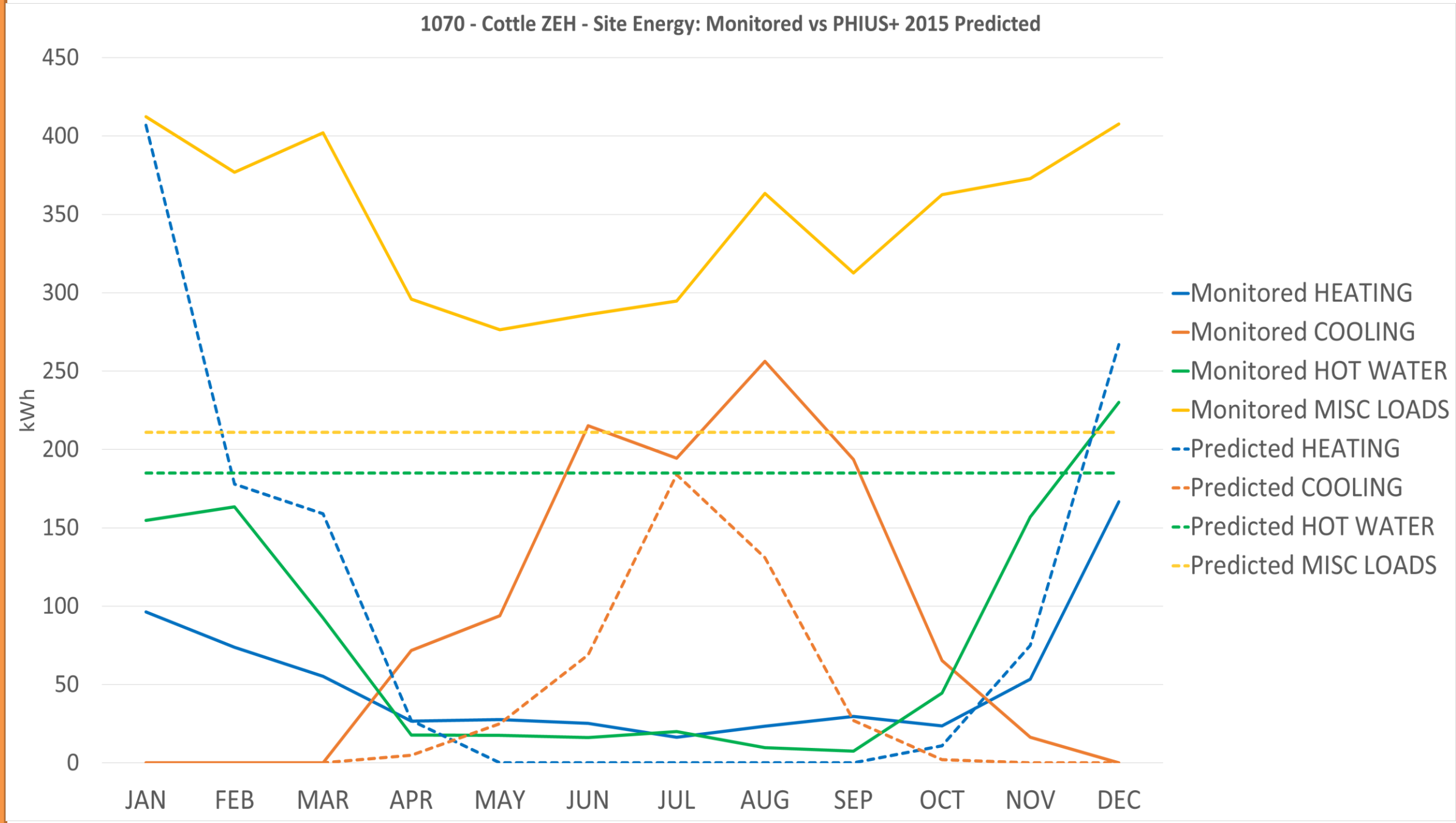
COTTLE ZEH



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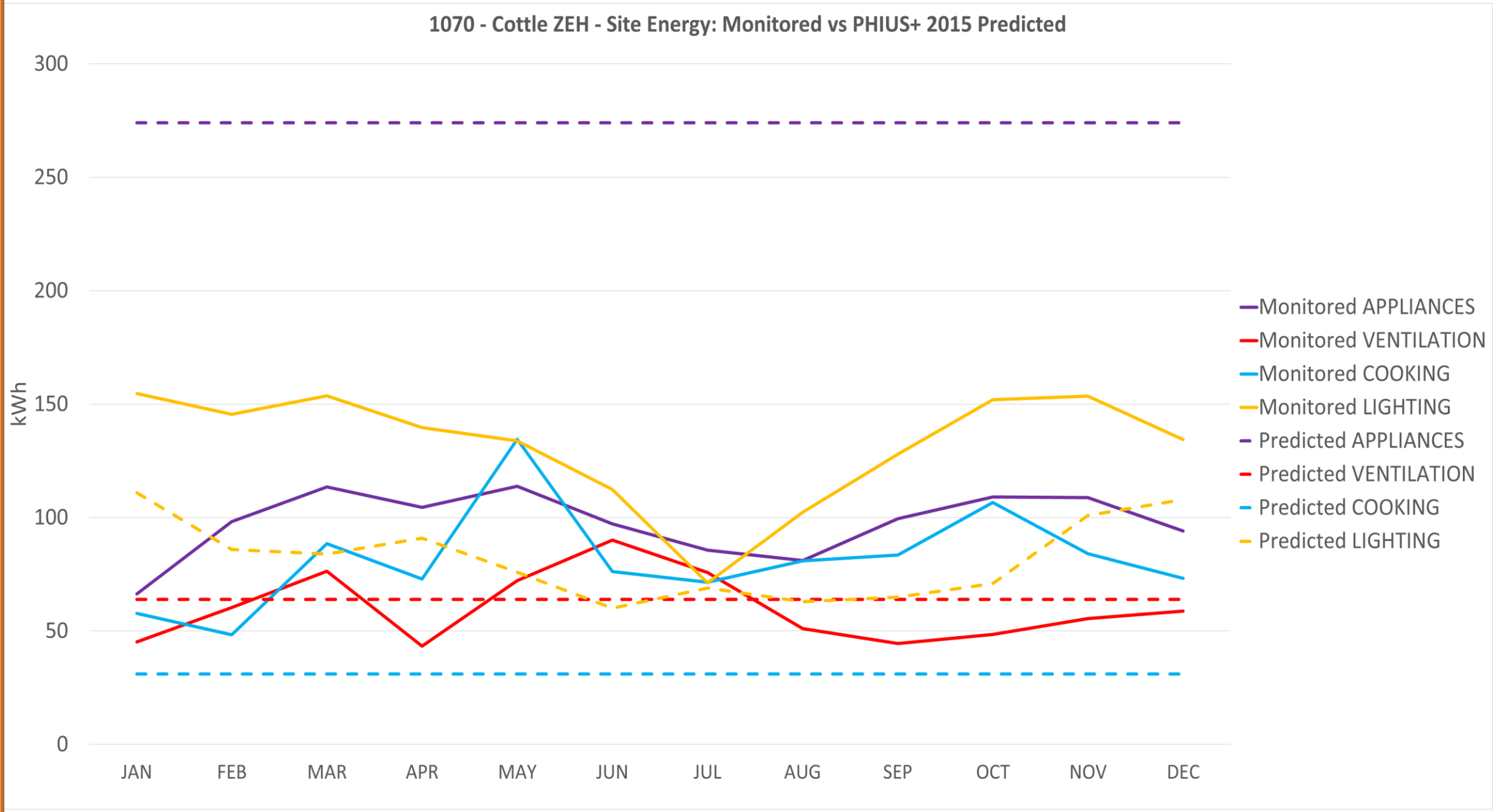
COTTLE ZEH



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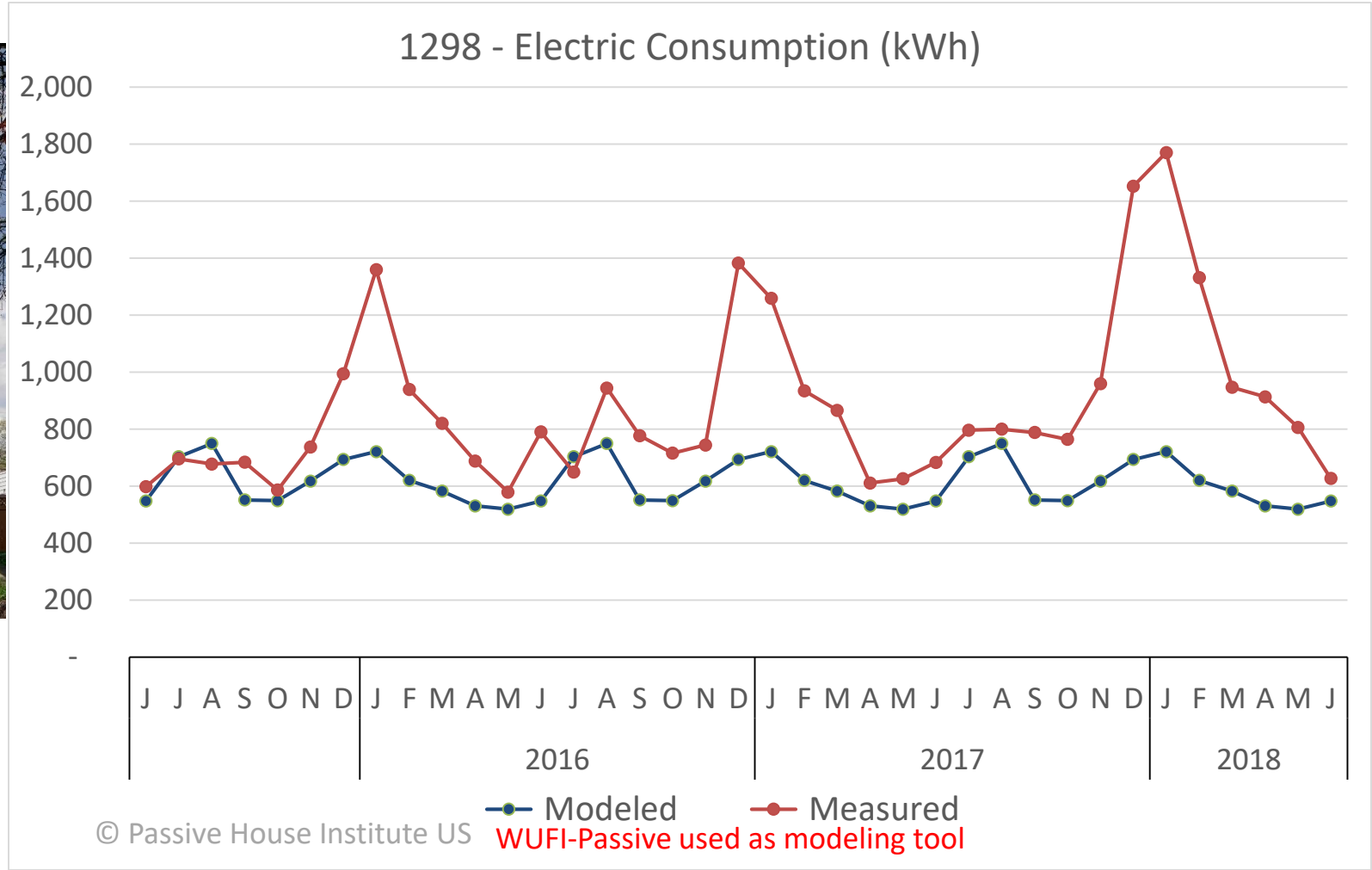
GEORGE RESIDENCE

70% Modeled vs Actual

Type: Single family
Occupants: 4
Location: Oak Park, IL
CPHC: Tom Bassett-Dilley

HPWH
Under-sized heat pump



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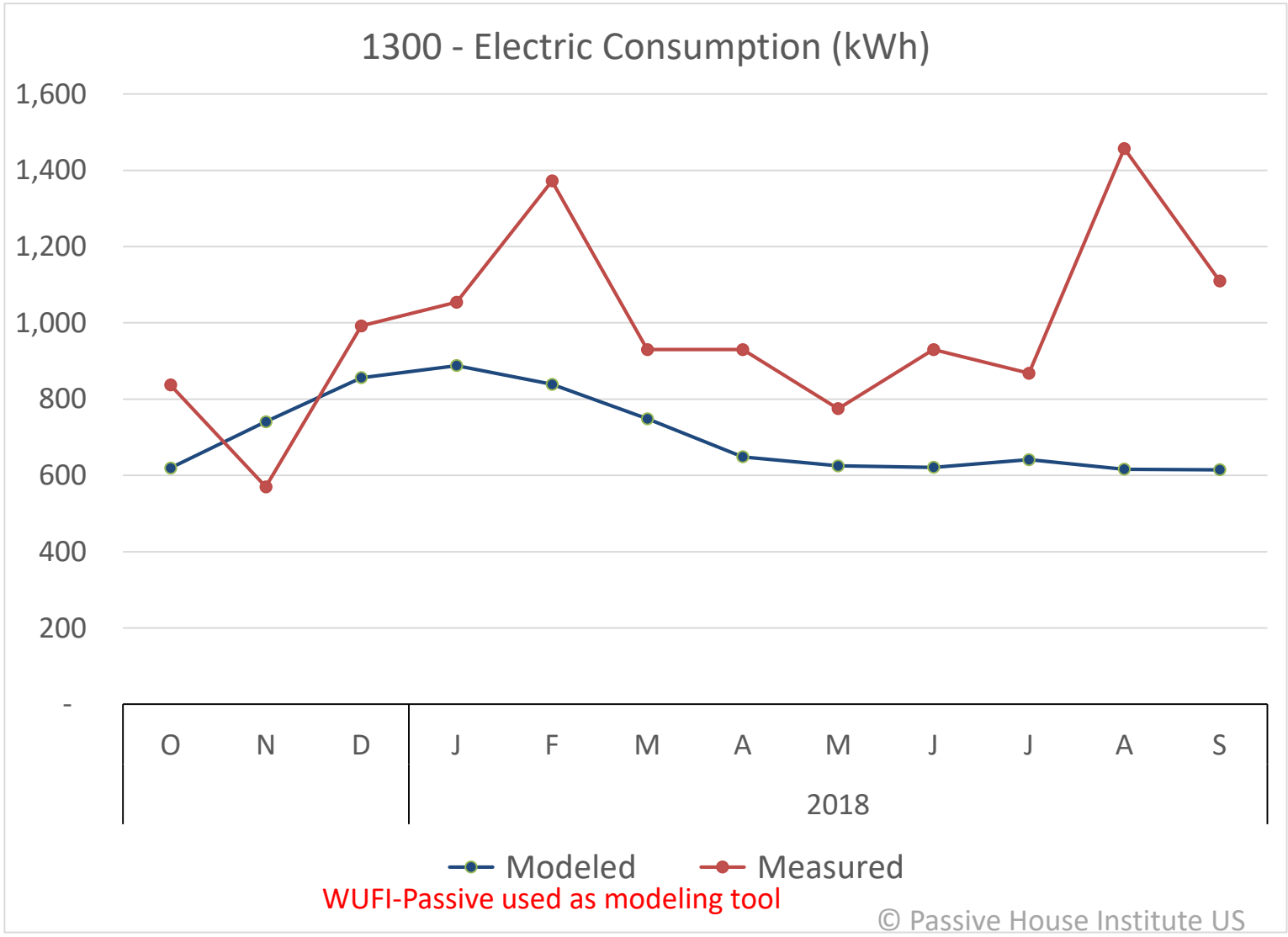
BERKS / SOEDER

72% Modeled vs Actual



WUFI-Passive used as modeling tool

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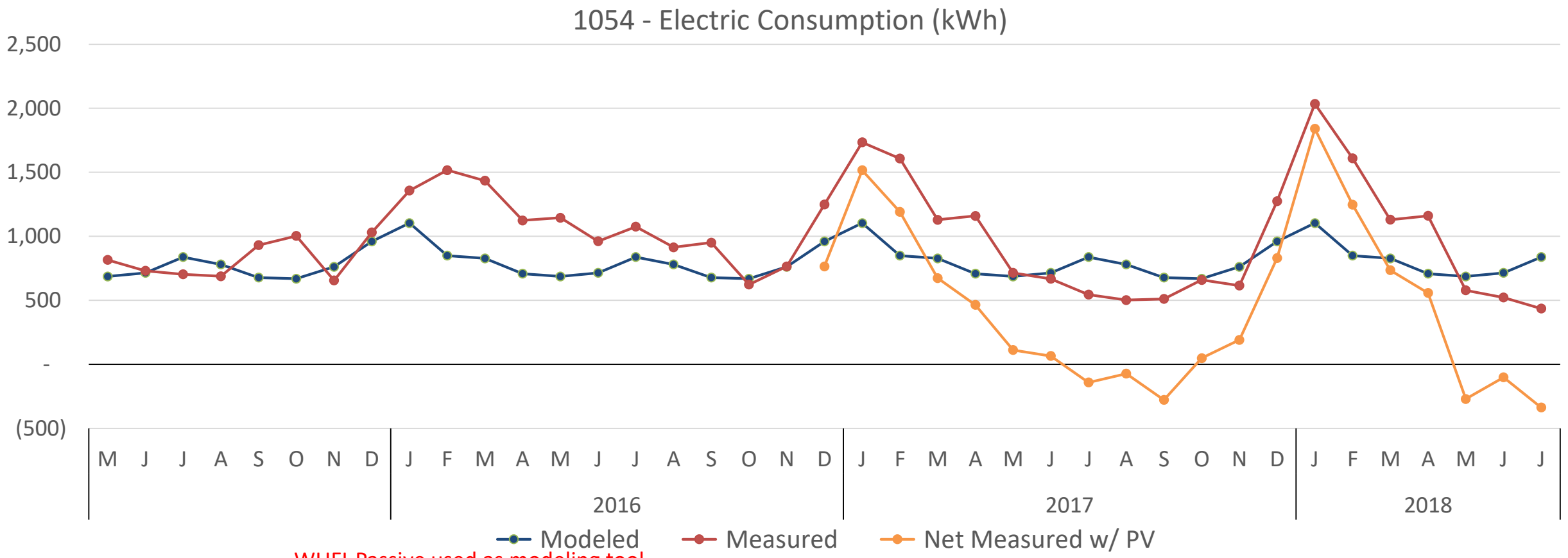
Type: Single family
Occupants: 6
Location: Scranton, PA
CPHC: Richard Pedranti

MOSKOWITZ PASSIVE HOUSE

79% Modeled vs Actual

Type: Single family
Occupants: 3
Location: Teaneck, NJ
CPHC: Christine Liaukus
Malka Van Bemmelen



WUFI-Passive used as modeling tool

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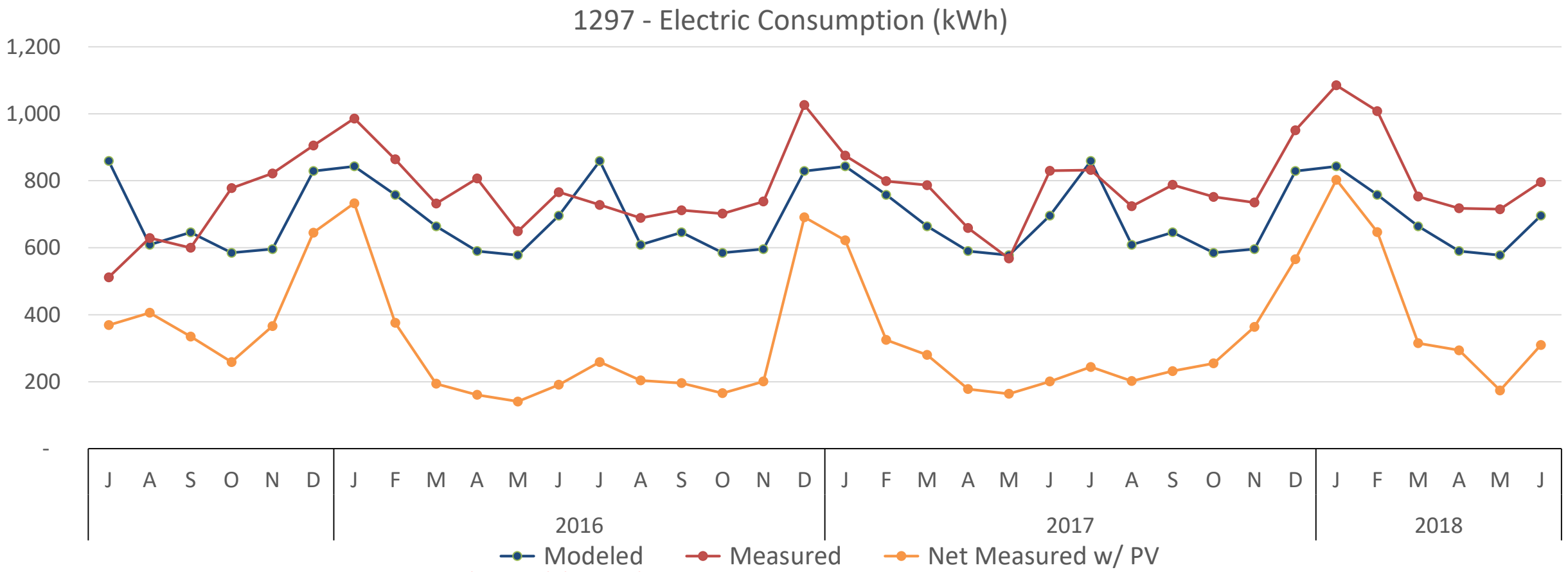
EAST LAWRENCE PH

88% Modeled vs Actual

Type: Single family
Occupants: 3
Location: Lawrence, KS
CPHC: Ryan Abendroth



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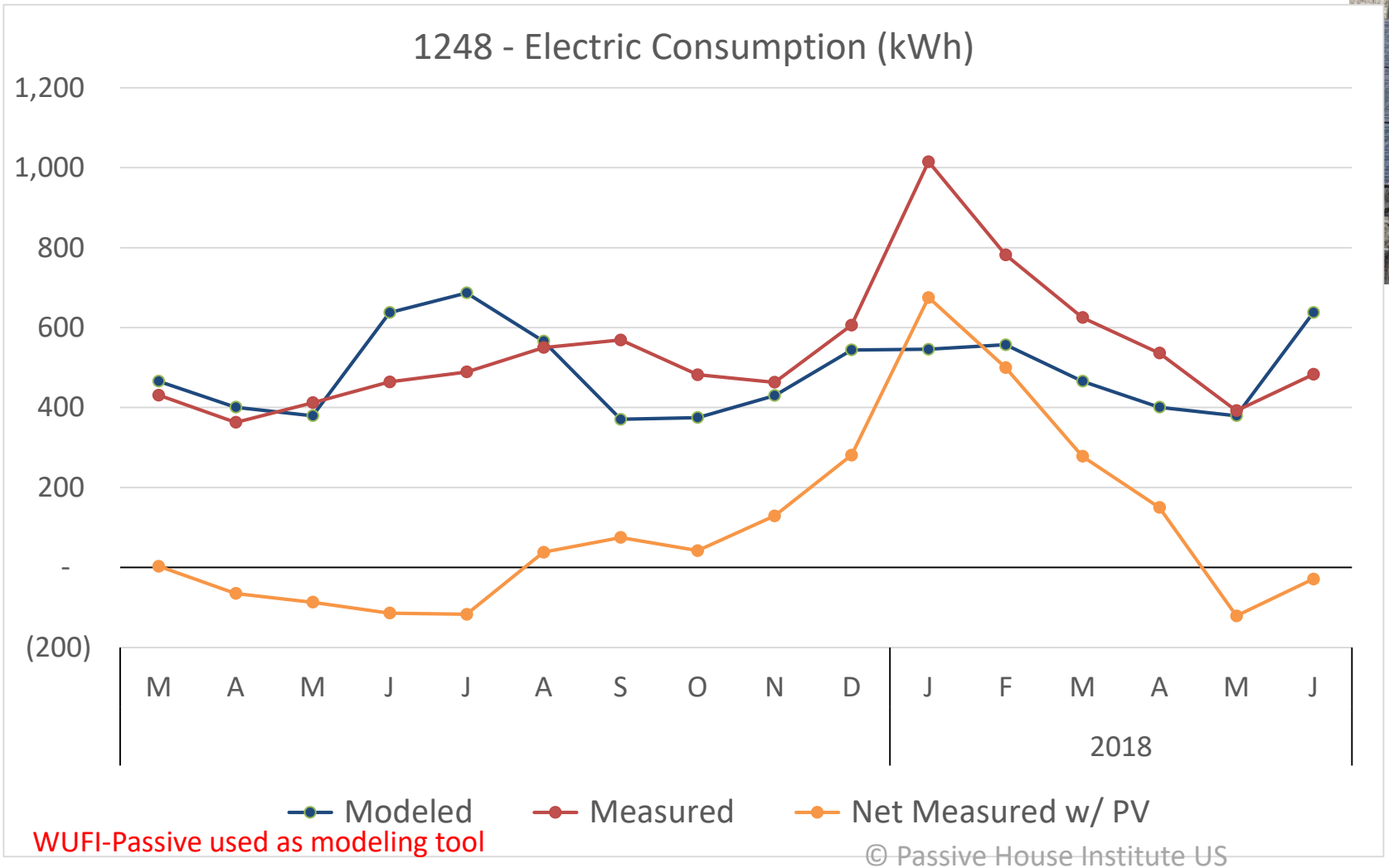
LOUGHRAN RESIDENCE

93% Modeled vs Actual



Type: Single family
Occupants: 4
Location: Illinois
CPHC: Ryan Abendroth

WUFI-Passive used as modeling tool

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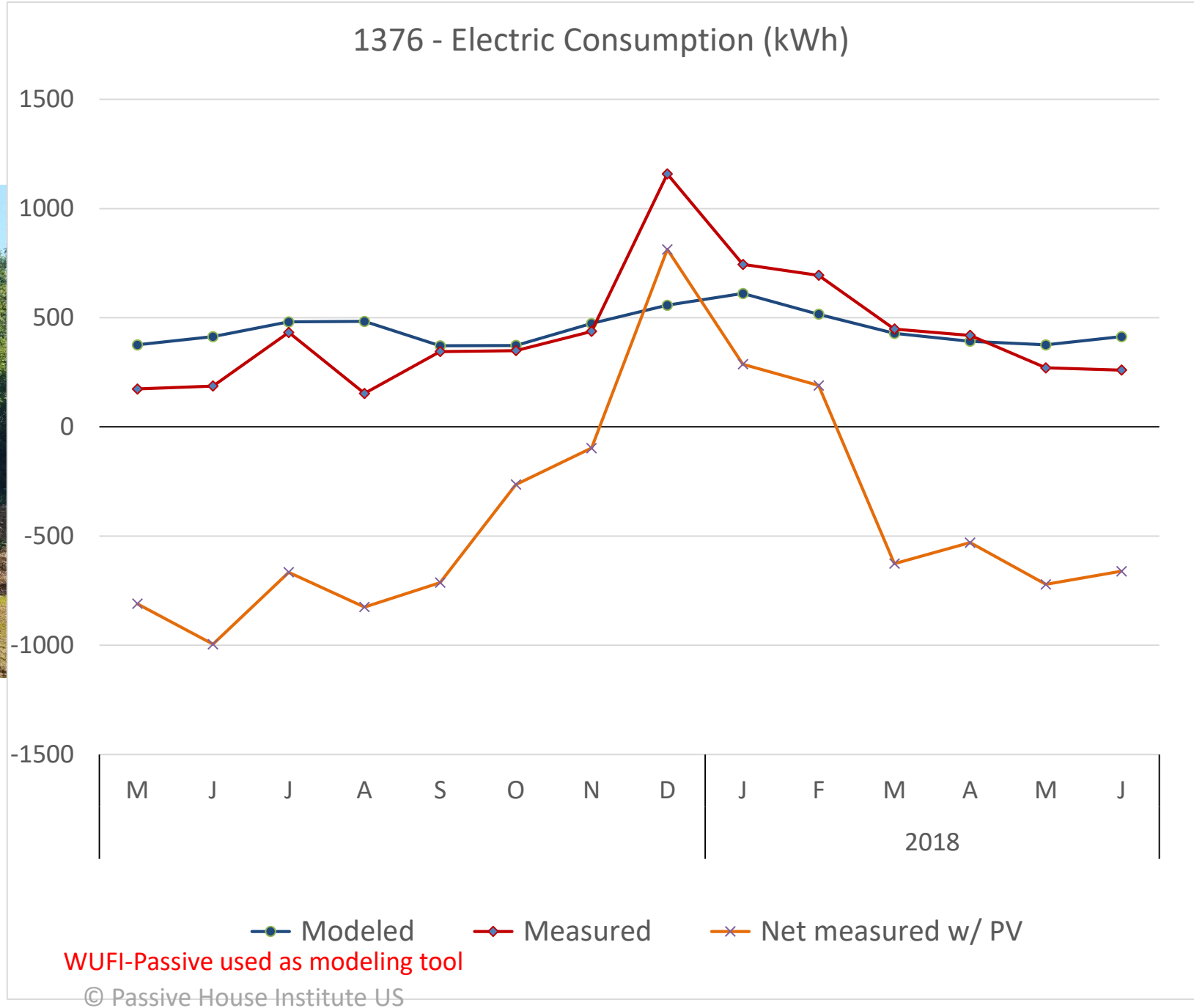
THE ROCKPILE

103% Modeled vs Actual

Type: Single family
Occupants: 2
Location: Dubuque, IA
CPHC: Shane Hoeper



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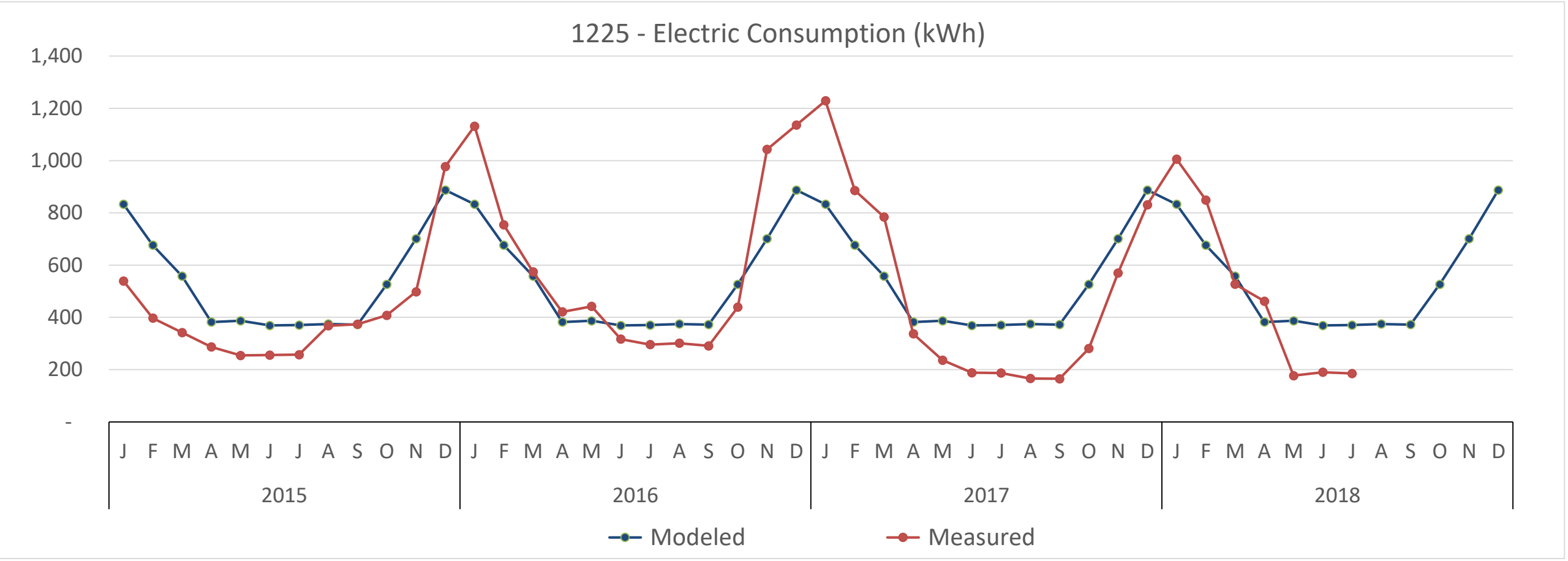

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OWL HAVEN

107% Modeled vs Actual

Type: Single family
Occupants: 3
Location: Langley, WA
CPHC: Robert Moore

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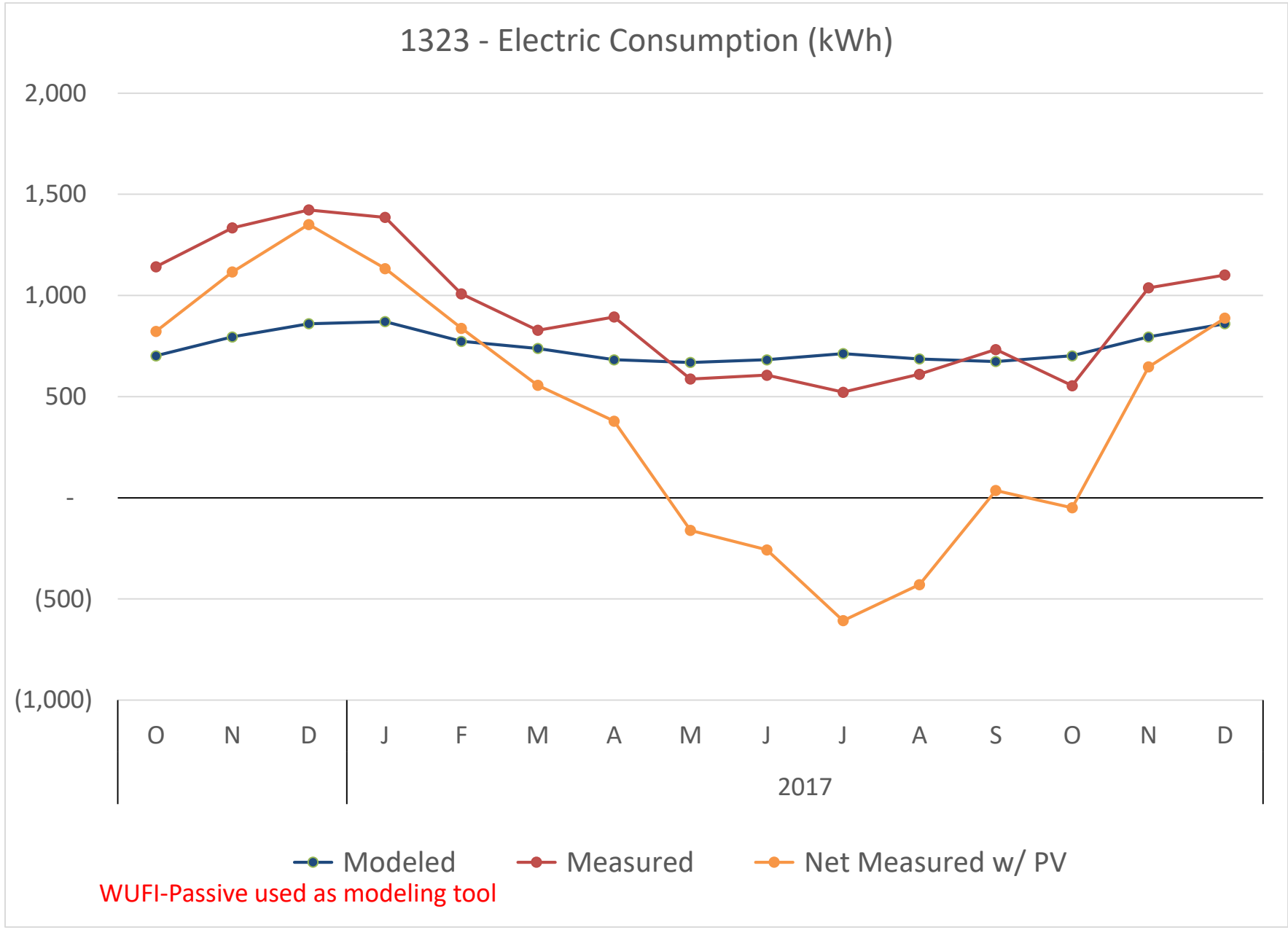
CHRISTIANSON

108% Modeled vs Actual

Type: Single family
Occupants: 5
Location: Corvallis, OR
CPHC: Jan Fillinger,
Win Swafford



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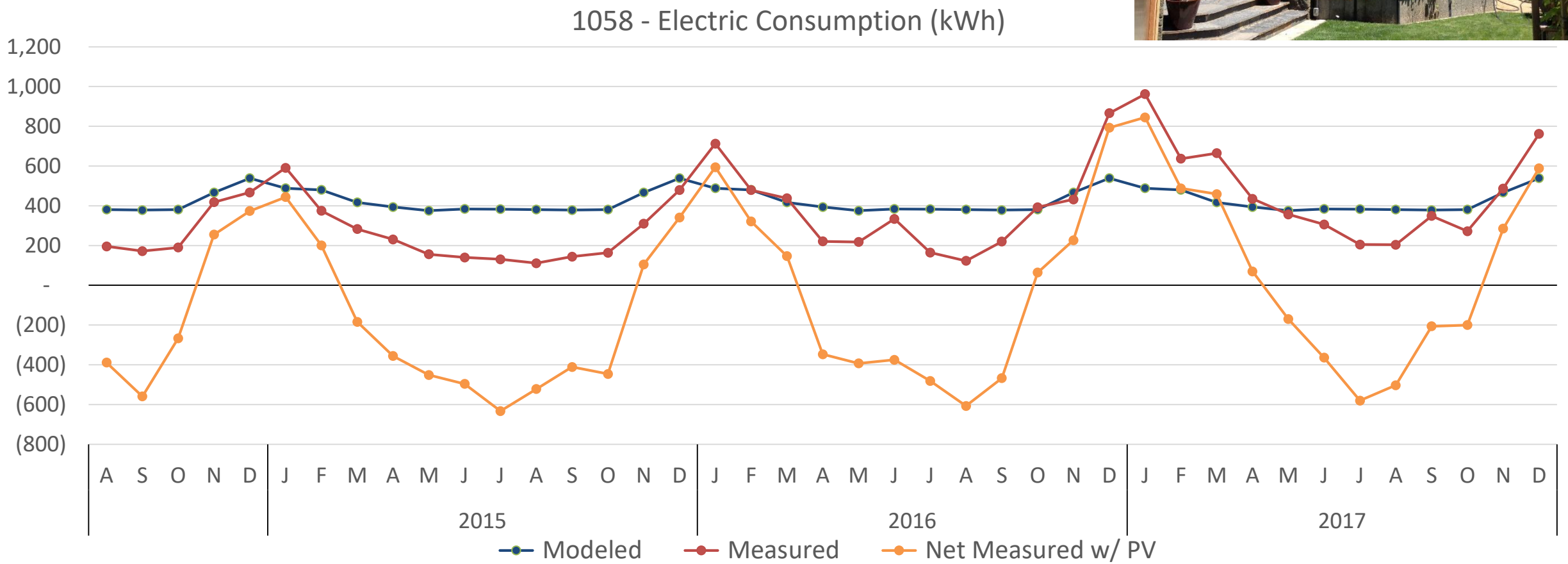
Type: Single family
Occupants: 3
Location: Eugene, OR
CPHC: Win Swafford
Jan Fillinger

ORCHARD ST

116% Modeled vs Actual



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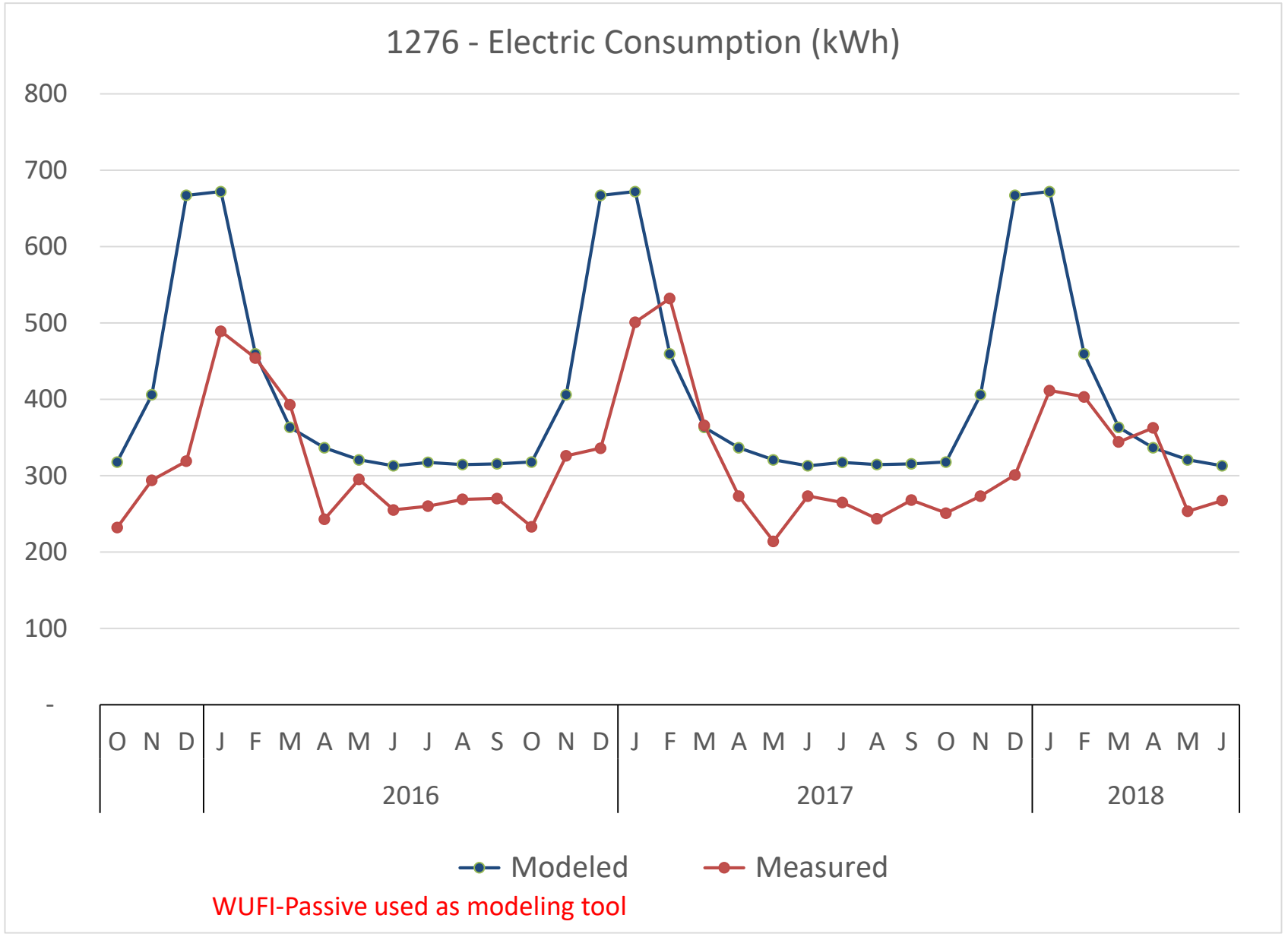
ANCHOR BAY

128% Modeled vs Actual

Type: Single family
Occupants: 4
Location: Gualala, CA
CPHC: Graham Irwin



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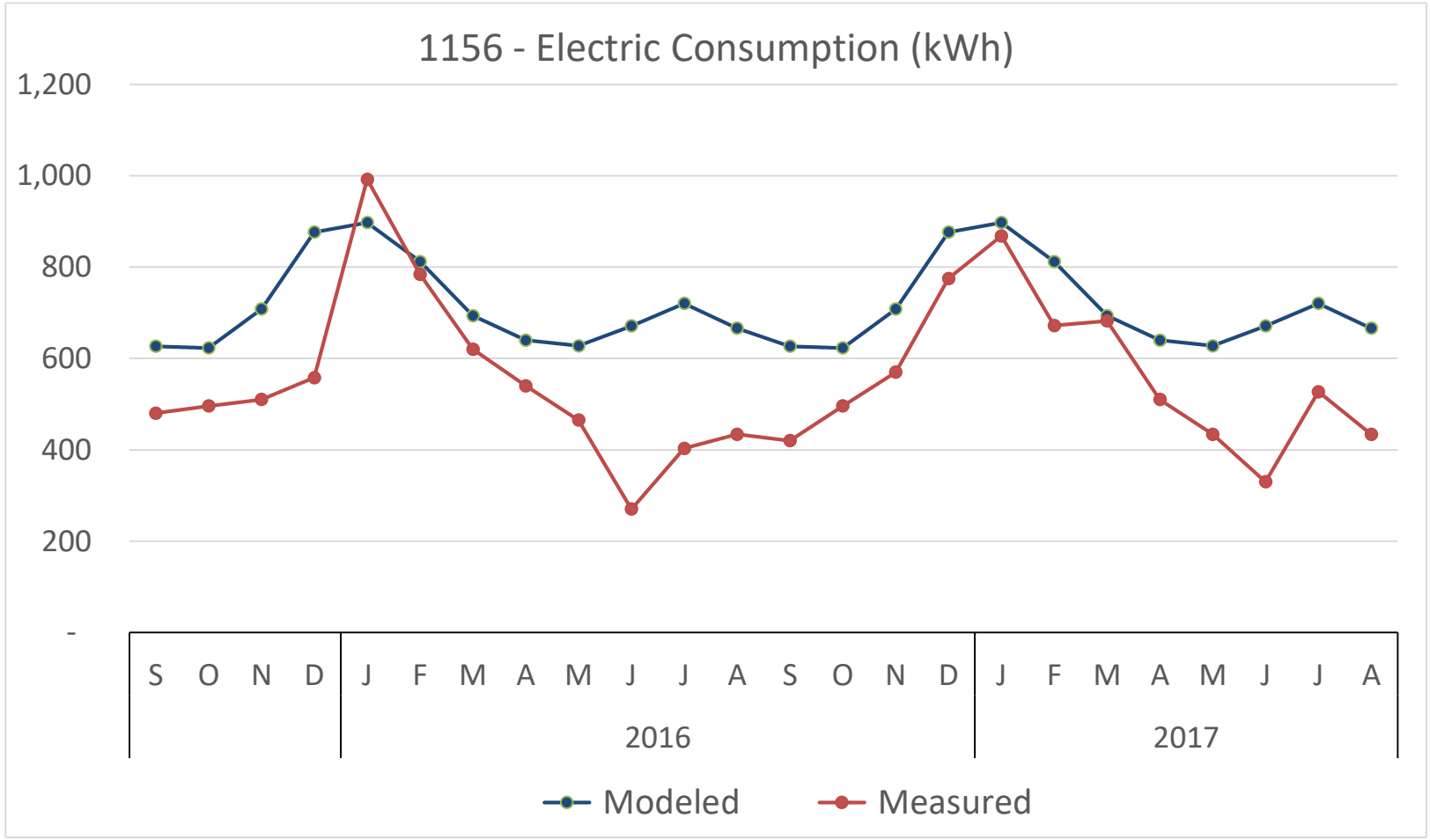
KARPIAK MULHALL

130% Modeled vs Actual

Type: Single family
Occupants: 4
Location: Scranton, PA
CPHC: Richard Pedranti



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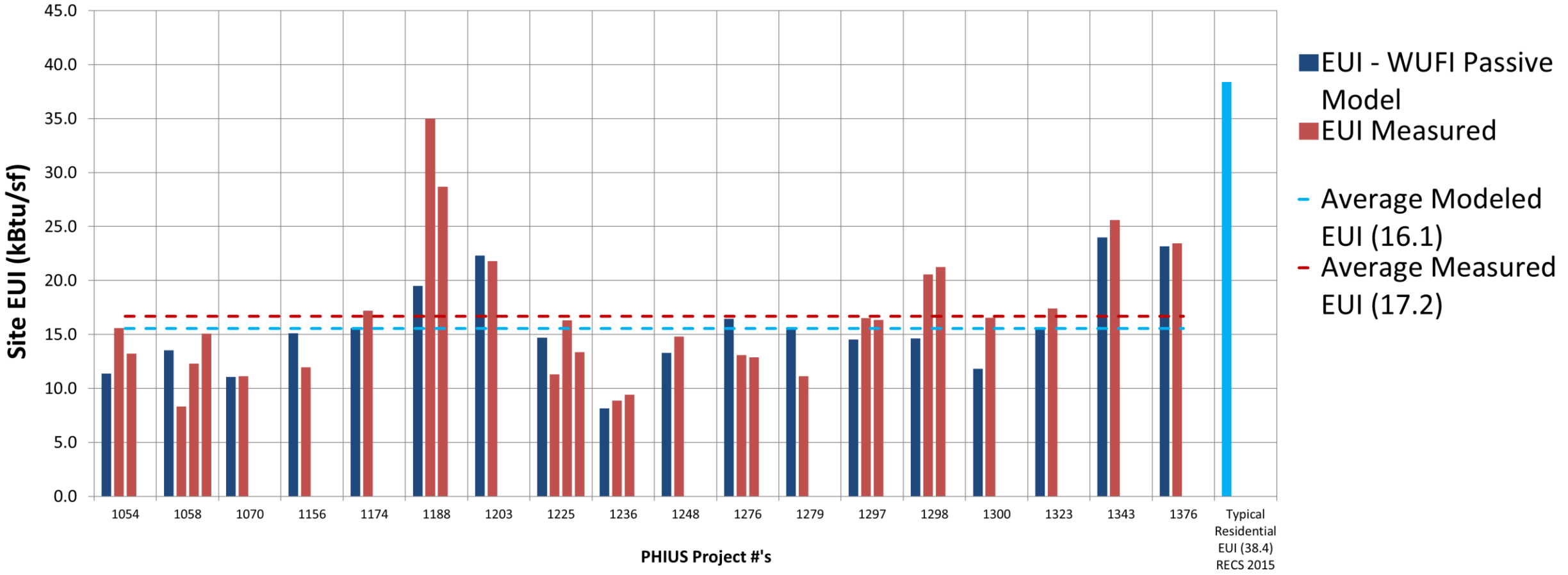
93% Modeled vs Actual



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