

# Keith O'Hara

- Eco Performance Builders
- Home Performance all electric retrofits
- General, HVAC, and Insulation contractor



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# Heat Pumps



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# Heat Pumps



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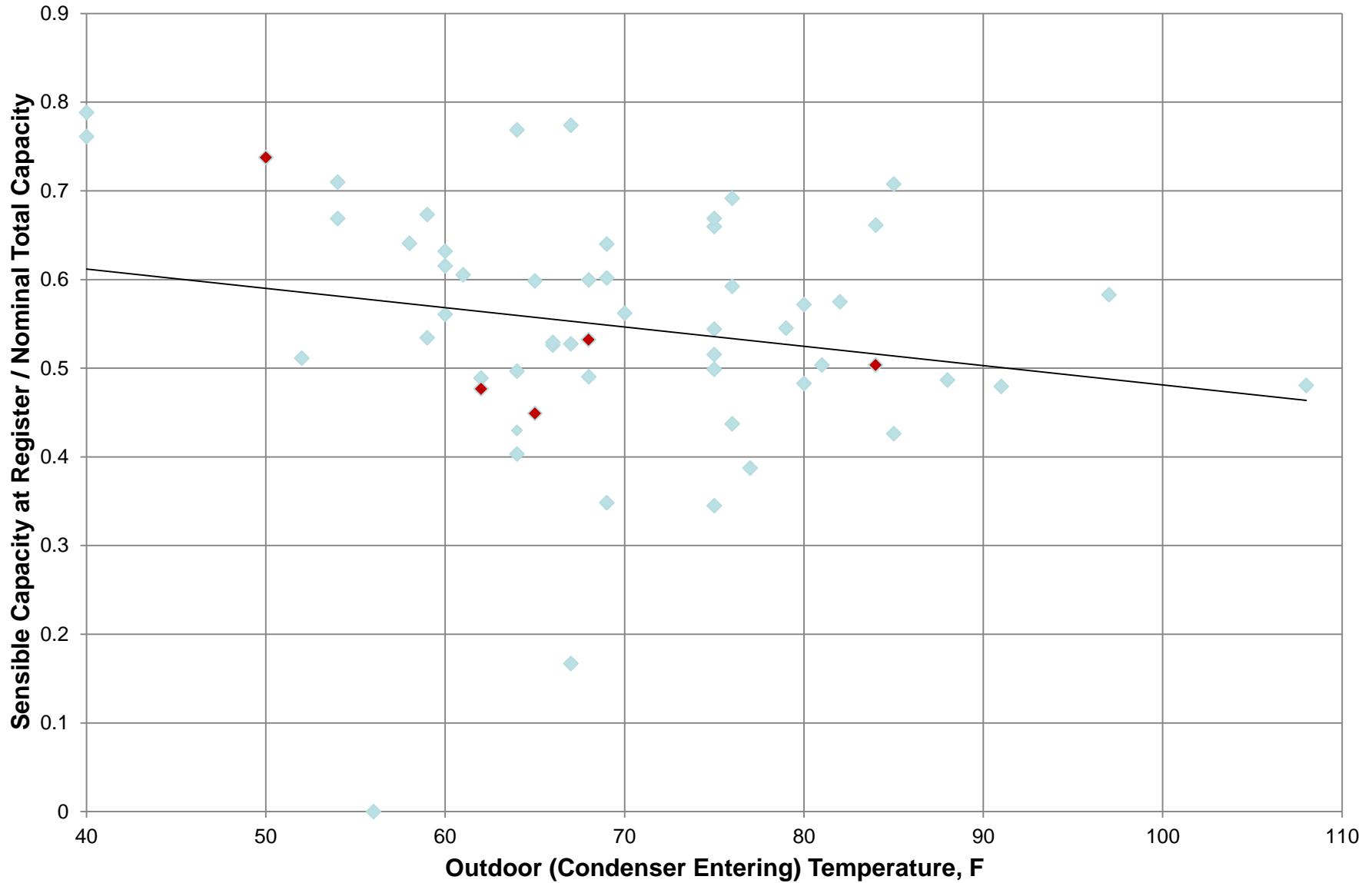
# Intuitive Quality



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# State of the Industry

## CEC Study on Delivered Performane





# If You Don't Measure - You Don't Know



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BUILD

# Commissioning

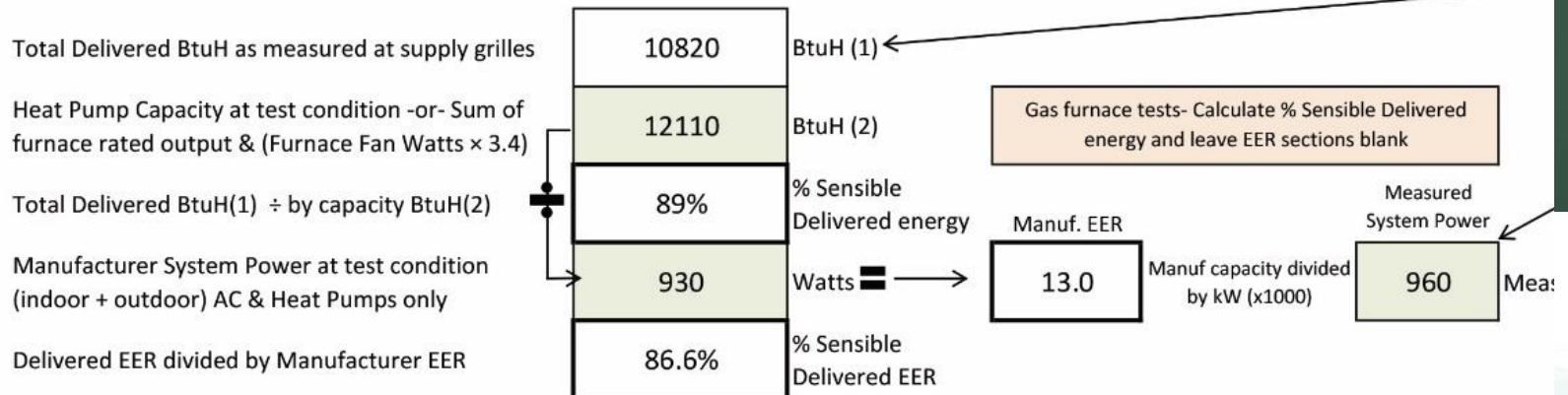
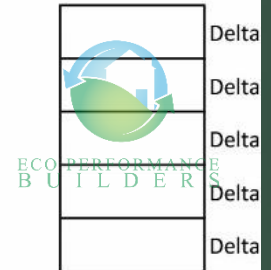


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*Comfortable, Efficient, Healthy Homes*

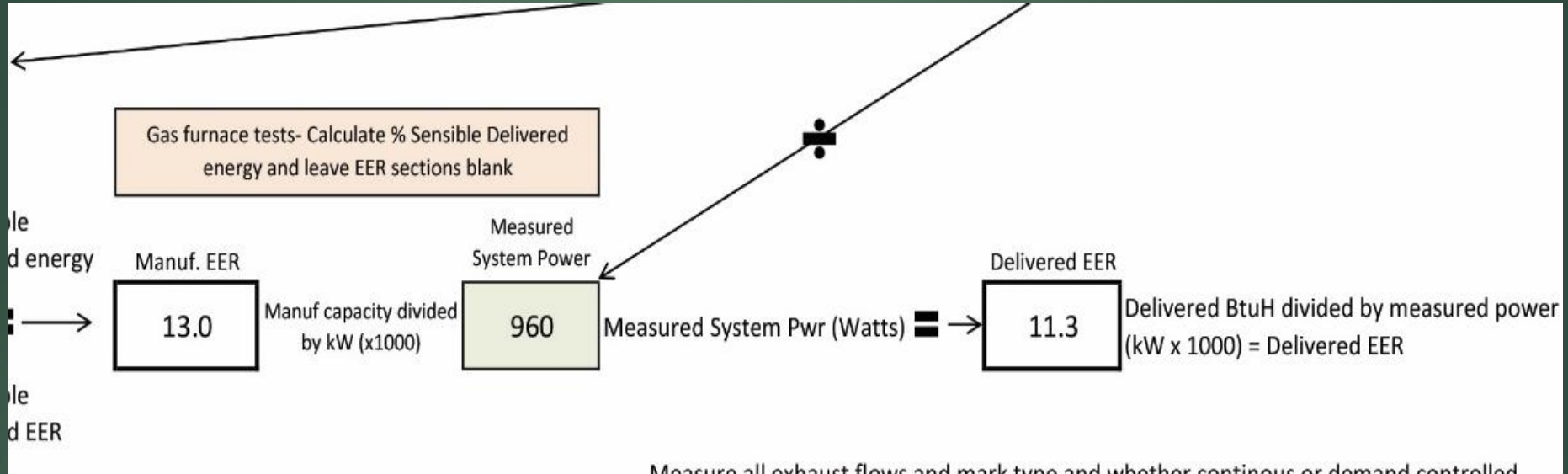
# Commissioning

Supply Airflows (use only Energy Conservatory FlowBlaster)	Temp (F)	CFM	Flow Correction	Constant	Delta T
Supply Grille #1 Room:	51.5	143.0	1.01	1.08	20.5
Supply Grille #2 Room:	50.5	134.0	1.01	1.08	21.5
Supply Grille #3 Room:	53.0	96.0	1.01	1.08	19.0
Supply Grille #4 Room:	52.0	113.0	1.01	1.08	20.0
Supply Grille #5 Room:				1.08	
Supply Grille #6 Room:				1.08	
Supply Grille #7 Room:				1.08	
Supply Airflow (continued from page 1)					
	Temp (F)	CFM	Flow Correction		
Supply Grille #8 Room:				1.08	
Supply Grille #9 Room:				1.08	
Supply Grille #10 Room:				1.08	
Supply Grille #11 Room:				1.08	
Supply Grille #12 Room:				1.08	
<b>Totals</b>		<b>486.0</b>	<b>CFM Total (Indicated airflow)</b>		





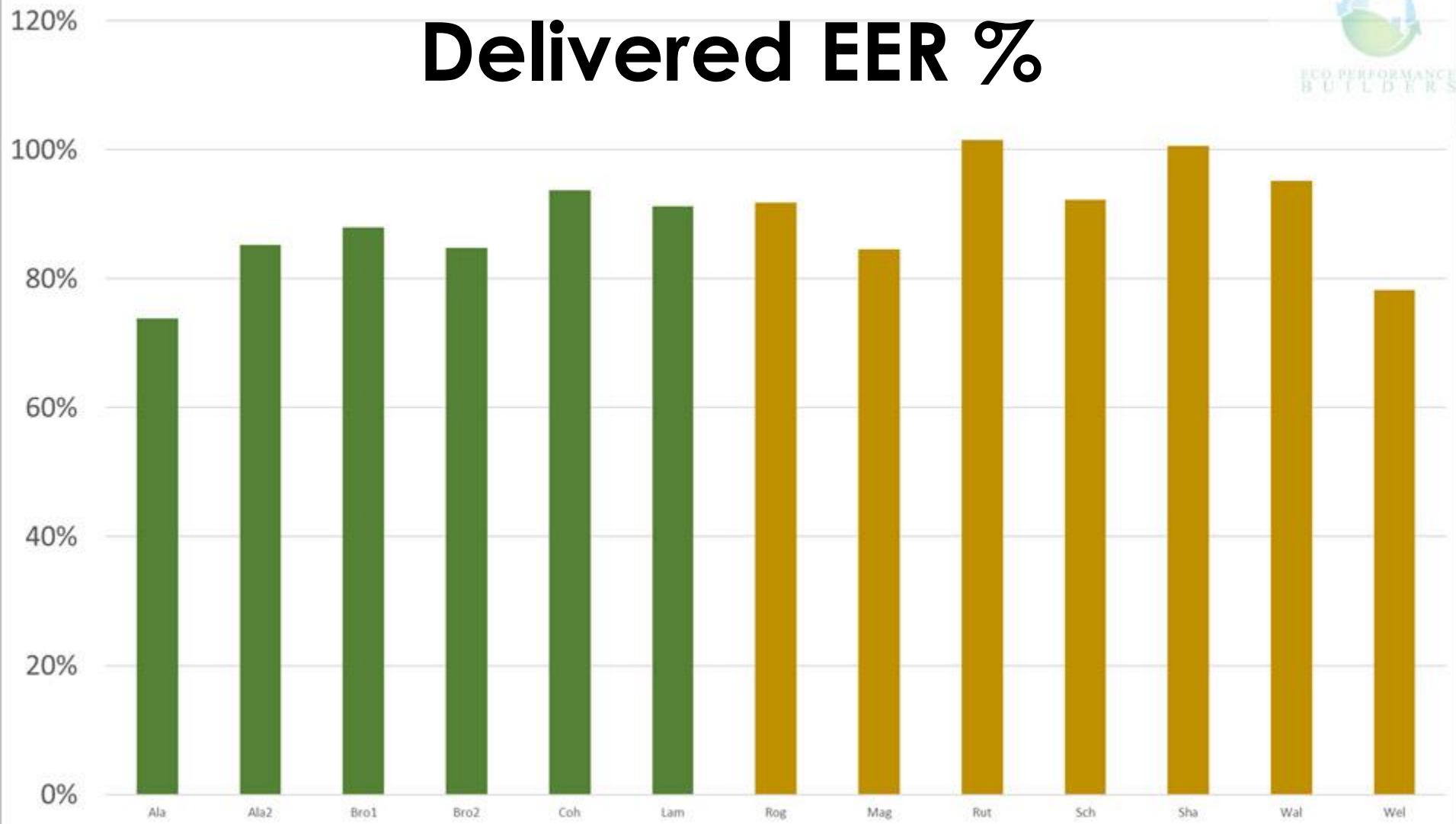
# Commissioning



# Buried Ducts and Sealed Crawlspace Systems



## Delivered EER %



# Dub



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# Dub

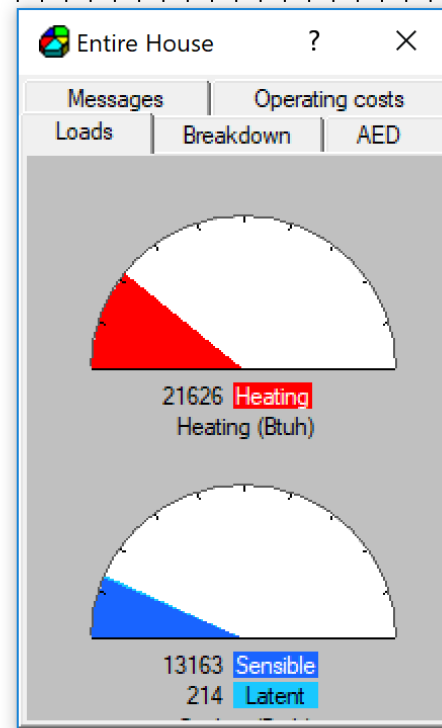
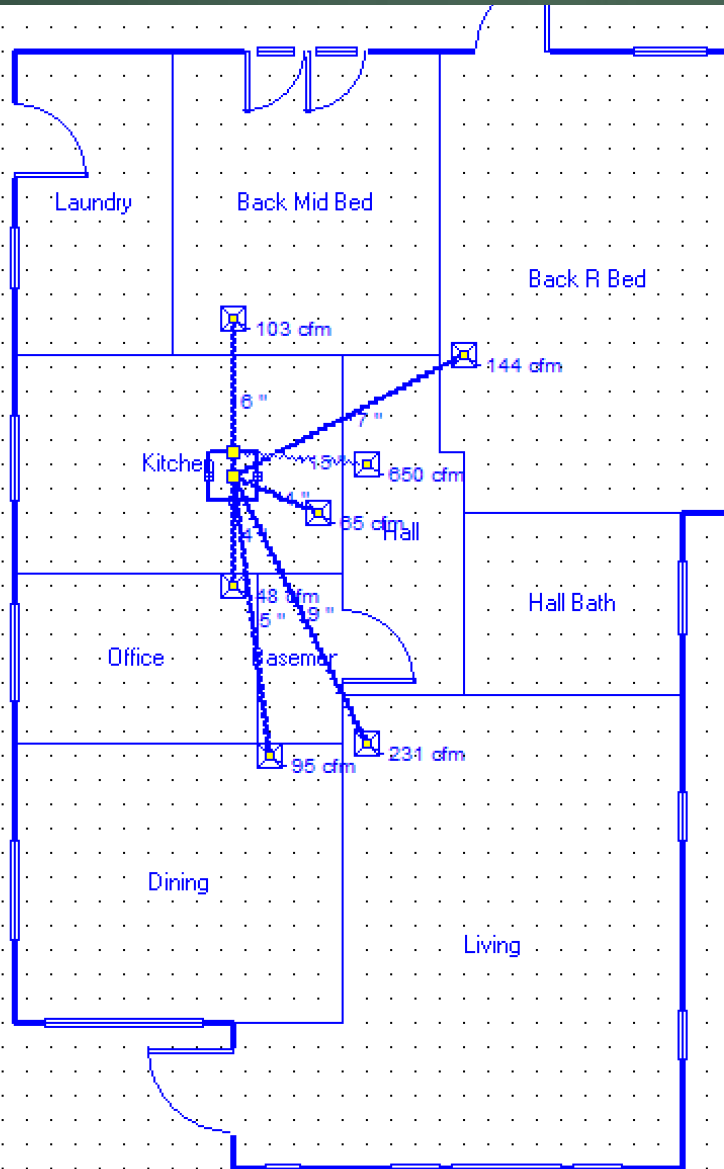


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# Dub



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# Dub



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**Ducted Heat Pump**



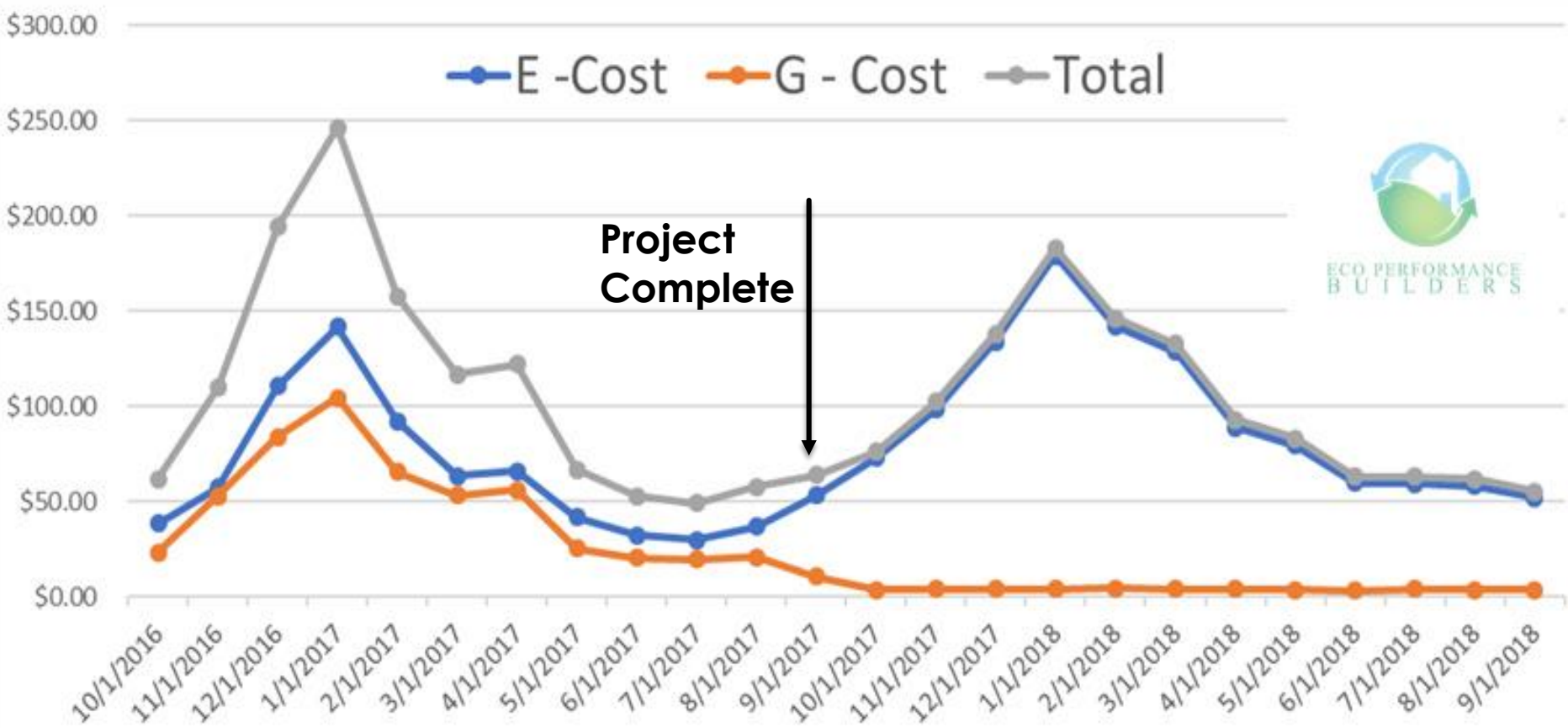
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# Utility Data

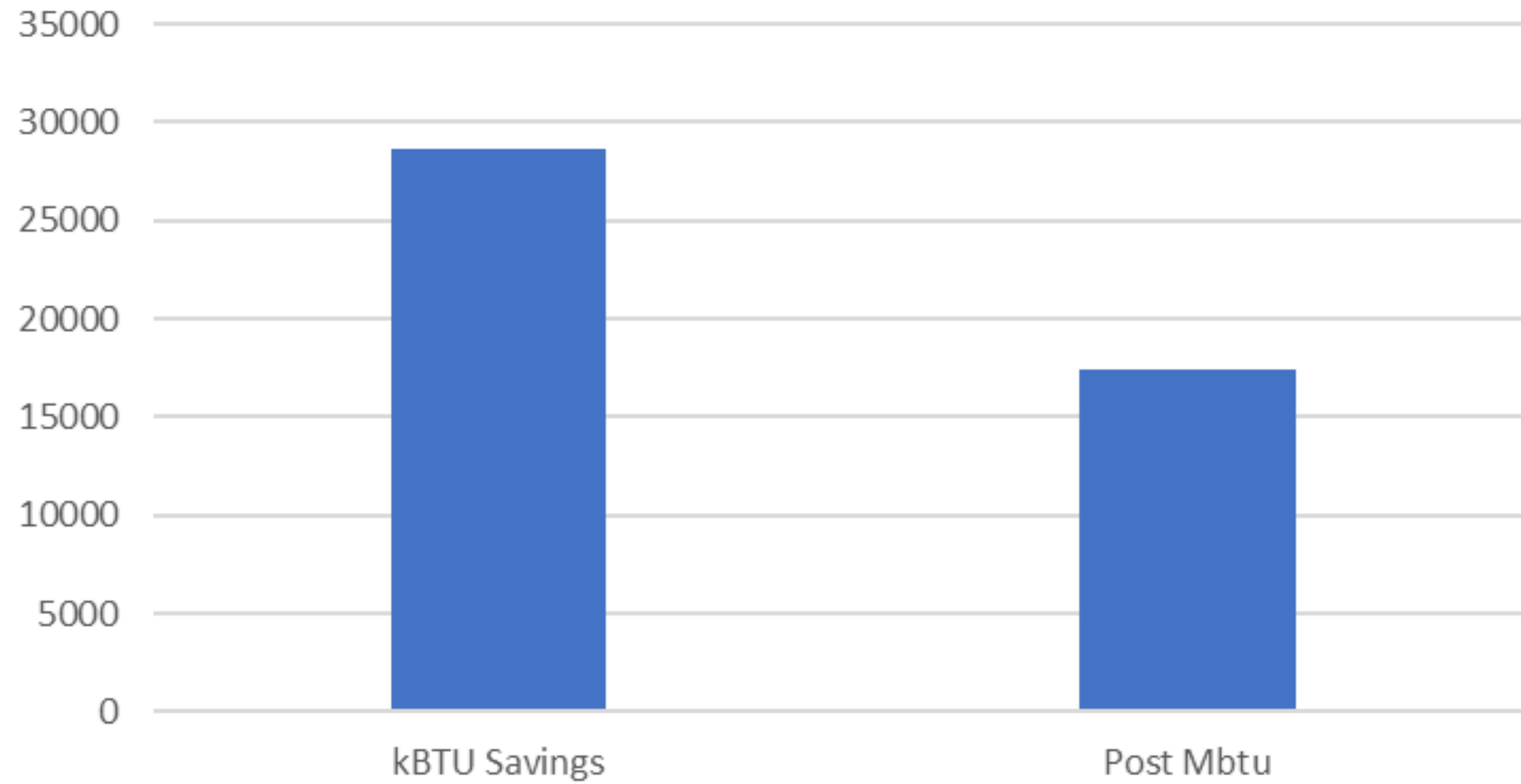


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# Utility Data



# All Electric High Performance ZNE Builds



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## ECO PERFORMANCE BUILDERS

Dear Steve Gina Weber,

With regards to the zero energy bill guarantee at 12 Jewell Court Oakland California 94611. Eco Performance Builders, Inc. agrees to pay any electrical bills, if there are any, for the first three years of occupancy with the following:

The guarantee covers standard residential usage with the current appliances and current appliance locations. This includes the addition of a high efficient washer in dryer to be purchased and installed by buyer in the laundry room.

Guarantee excludes:

- Taxes
- Surcharges
- Franchise fees
- Meter related non-energy charges

Respectfully submitted,

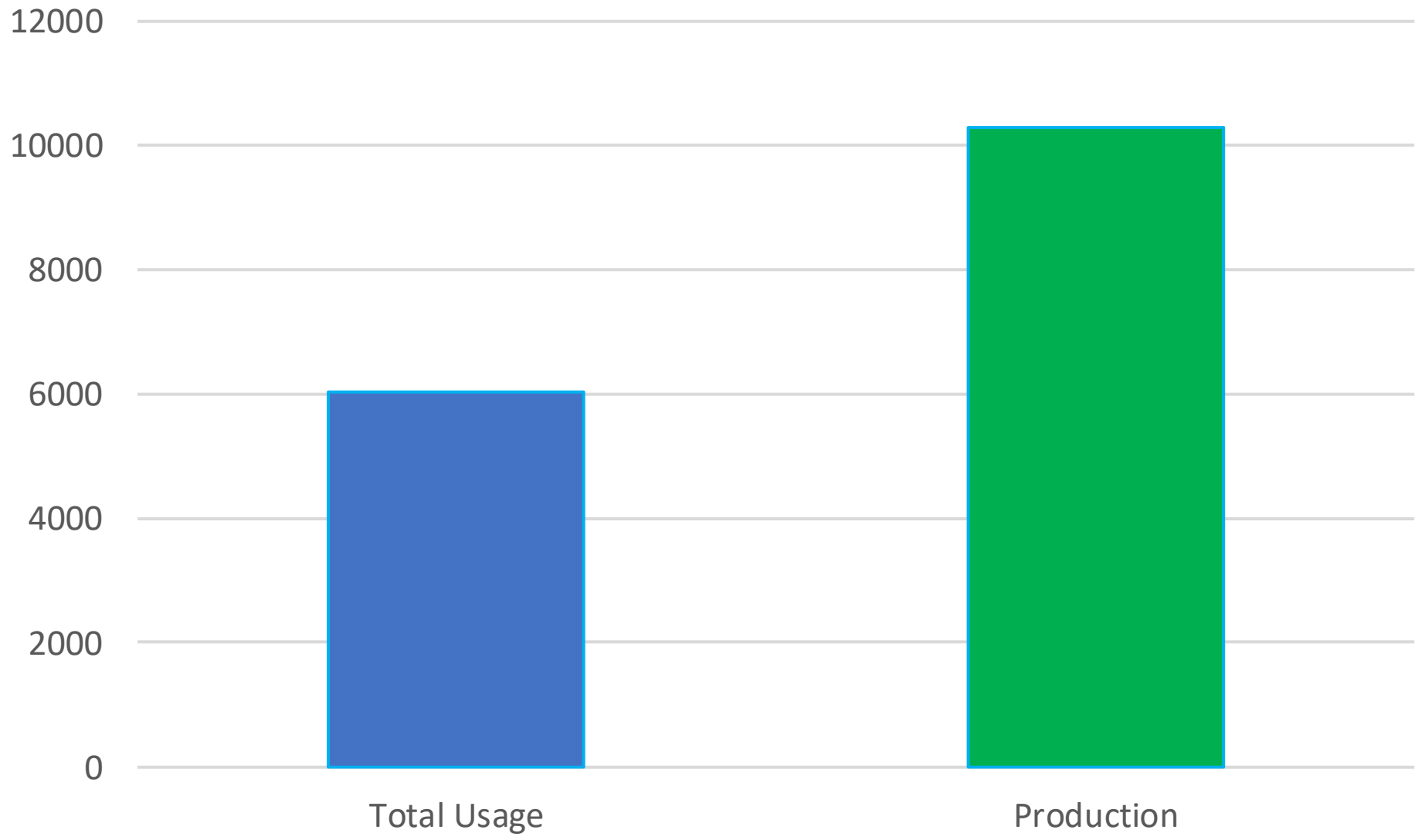
Keith O'Hara  
President  
Eco Performance Builders, Inc.



# Envelope



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# Circuit Monitoring Data

