



# New England Net Zero Production Houses

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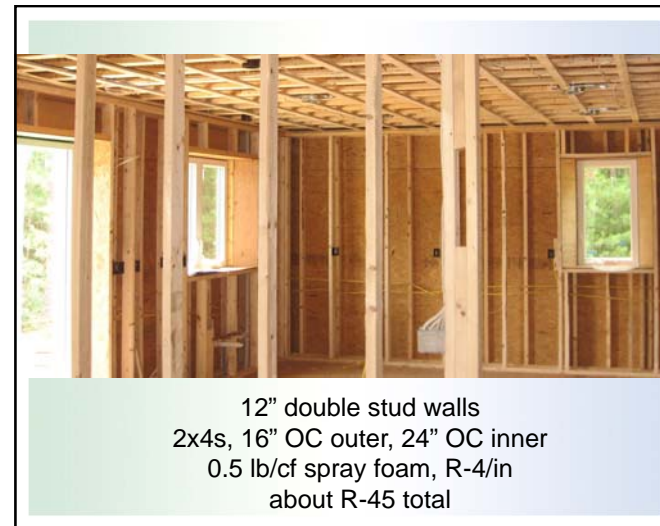



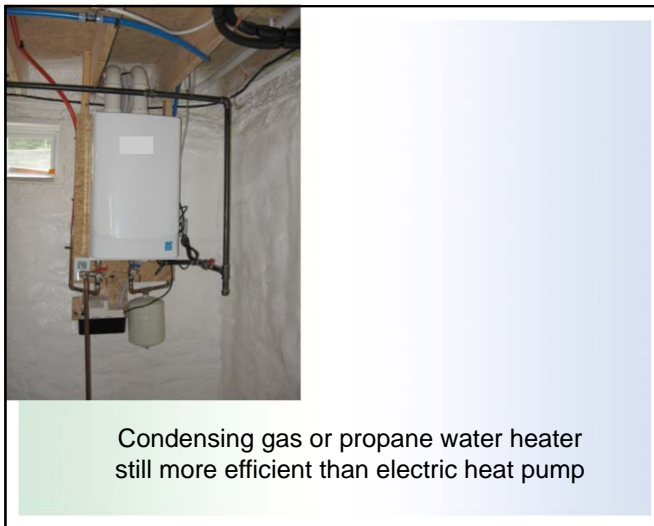
## Learning Objectives for this Session

- Compare the present and predicted future affordability of net-zero energy homes.
- Provide an estimate of required PV price for NZEH to be an optimal solution in 2030.
- Describe measures leading to market-rate net-zero houses.
- Describe the temperature distribution due to minimally distributed heating.
- Explain that whether or not an overall net-zero balance is achieved is highly dependent on the user.
- Describe that in very efficient homes, standby loads become more and more important and unnecessary standby losses (for example a crankcase heater for a heat pump) can sum up to a significant part of the overall energy consumption

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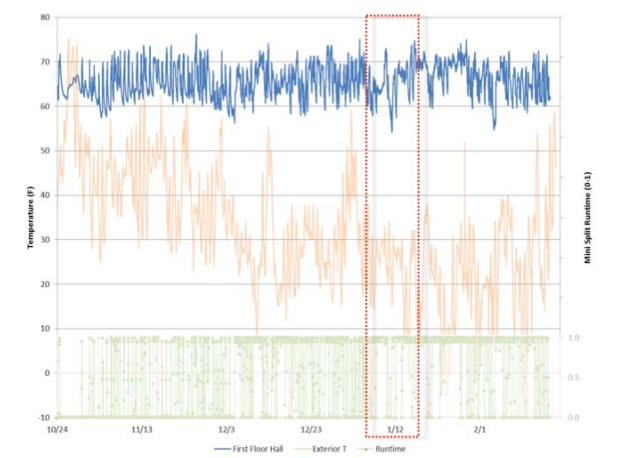


### Townsend Monitoring

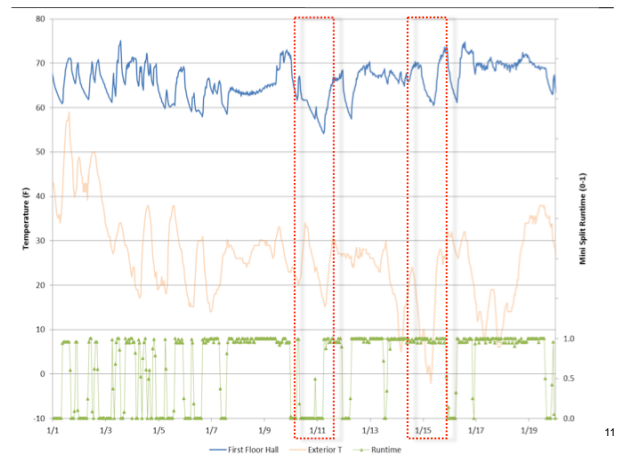
- Temperature and RH in hallway, rooms
- Runtime logging on mini splits
- Door open/closed status

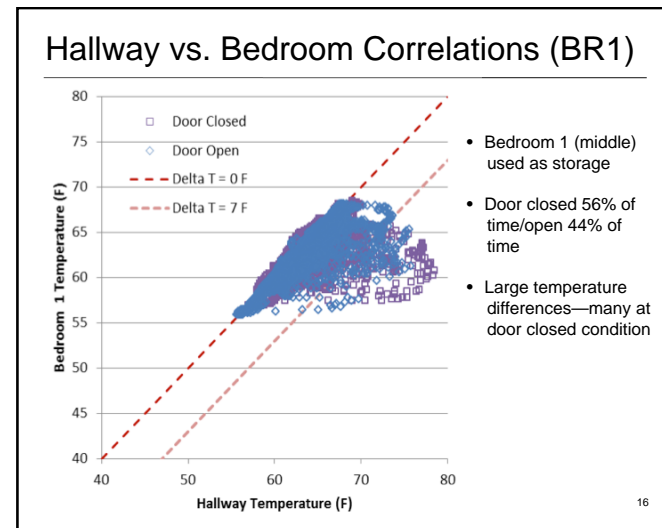
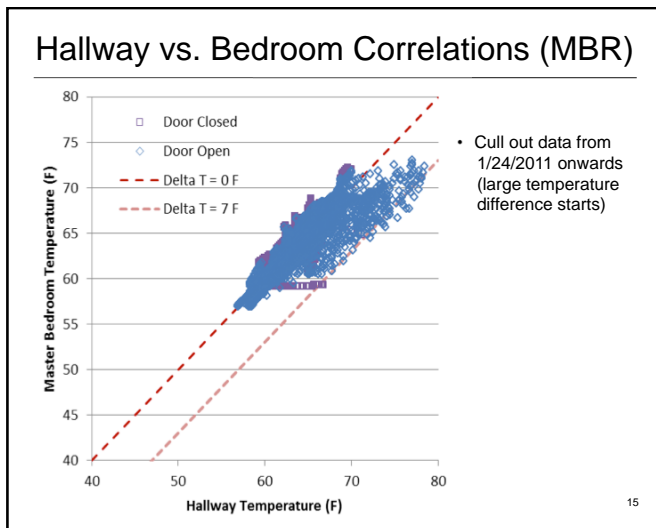
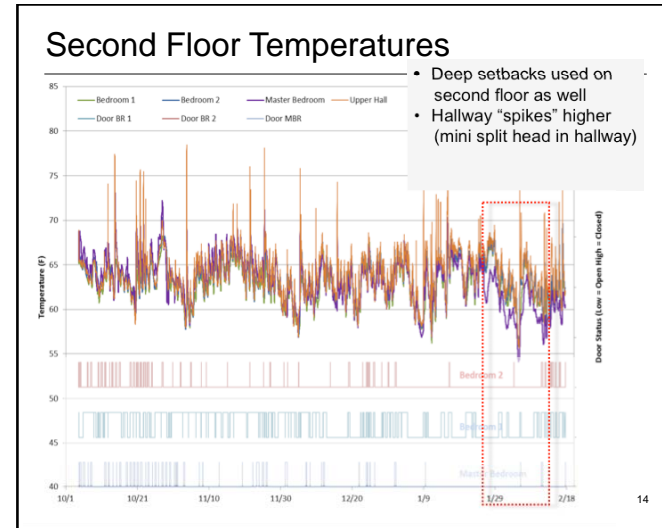
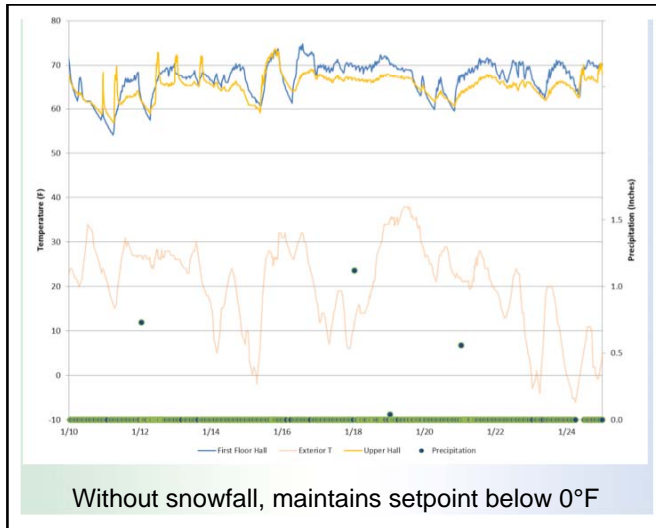


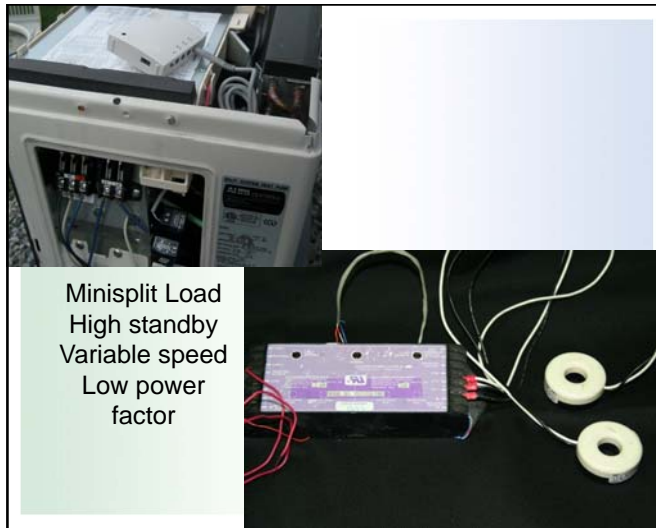
### First Floor Temperature/Runtime



### First Floor Temperature/Runtime








# Questions?

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This presentation is based on a peer-reviewed paper (Paper 6680), which is available for sale in the onsite ASHRAE bookstore and the online ASHRAE bookstore following the conference.