i3 Energy Mobile Homes

Inclusion, Integration and Innovation



i3 Energy

- i3 Energy started out of succession planning for Staples Energy
- Woman-owned business committed to workforce development
- Trade Ally network development, program admin, rebate processing, direct installation, software solutions
- Founded on Inclusion, Integration and Innovation



Credibility

- i3 Energy is a hybrid Trade Ally and Program Implementer
- ▶ i3 Energy does the installs
 - Air sealing, duct sealing, blower door tests, HVAC installs, repairs, troubleshooting
 - Just started electrification with ASHP and induction ranges



Presentation Goal

- Provide the audience with insight into mobile homes
- Use actual notes and photos from our field crew to show:
 - Every home is different
 - ► Very few homes are in an "ideal" state
 - Much more than energy efficiency needs to be done



Job 1 - Notes from the Field

- ► No furnace or thermostat
- Ventilation in front of house is missing a connection and will need to be built
- ► All other vents need sealing
- ► Floor where furnace was needs to be replaced
- Area above furnace needs to be sealed.
- ► Belly replacement needed
- Area between door and wall frame for front door needs to be sealed with spray foam



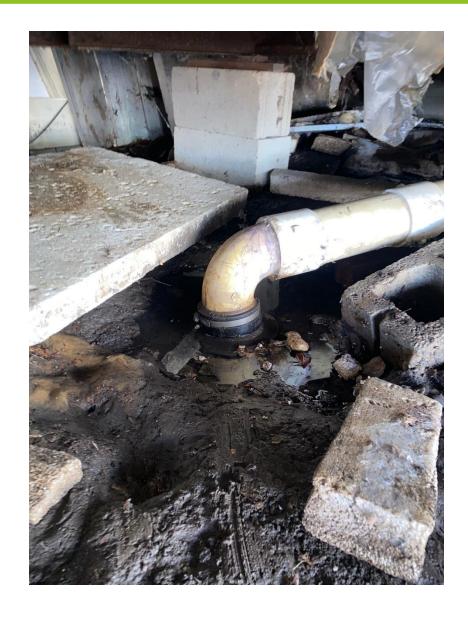




Job 2 - Notes from the field

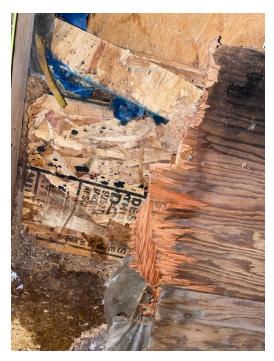
- Waterline constantly running hot water and leaking underneath kitchen
- Leak flows into old vent under house
- Sewage buildup underneath
- Sewage flooded around drain line going into ground
- Septic tank needs draining?















Repairing Leaks and Floors

An "Easy" Job



Ventilation needs sealing



One floor vent is rusted



Master bath has multiple drainage lines that will need sealing from underneath



Need to replace one flex vent depending on numbers from connection replacement











Summary of Jobs

- ► No furnace
- Disconnected ductwork
- ► Floor vents need sealing
- ► Holes in floor
- ► Belly replacement needed Tyvek
- Gaps around doors
- ► Holes where plumbing penetrates
- Sewage leaking
- Leaky pipes destroying underbelly insulation



Non-Energy Benefits

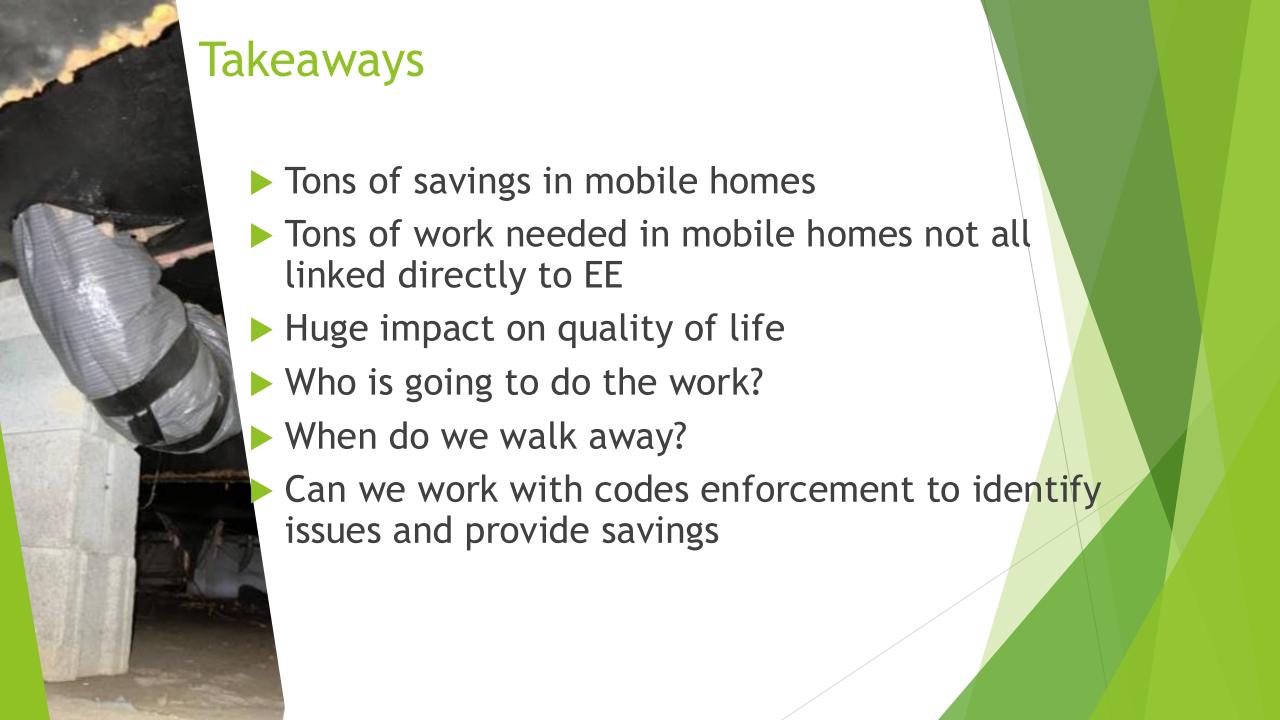
- Single mom with kids
- Kids had to use nebulizers when at mom's mobile home
- ▶ When at dads they seemed to get better
- Ductwork was disconnected and shredded dirt, dust, yuck was getting sucked into home
- Our crew fixed ductwork, reconnected and sealed from underneath the home



Non-Energy Benefits

Thank you all so much again. I know you're doing a great service, but I wanted to reiterate how life changing it is for us. I had no clue the conditions were as bad as they were in the ductwork. We will all be breathing easier – literally. Saving money is just a bonus at this point. My kids' health improving is priceless and I owe it all to you.





Additional Opportunities in Mobile Homes



PROPANE TO ALL-ELECTRIC



INDUCTION RANGES



SOLAR?

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Questions