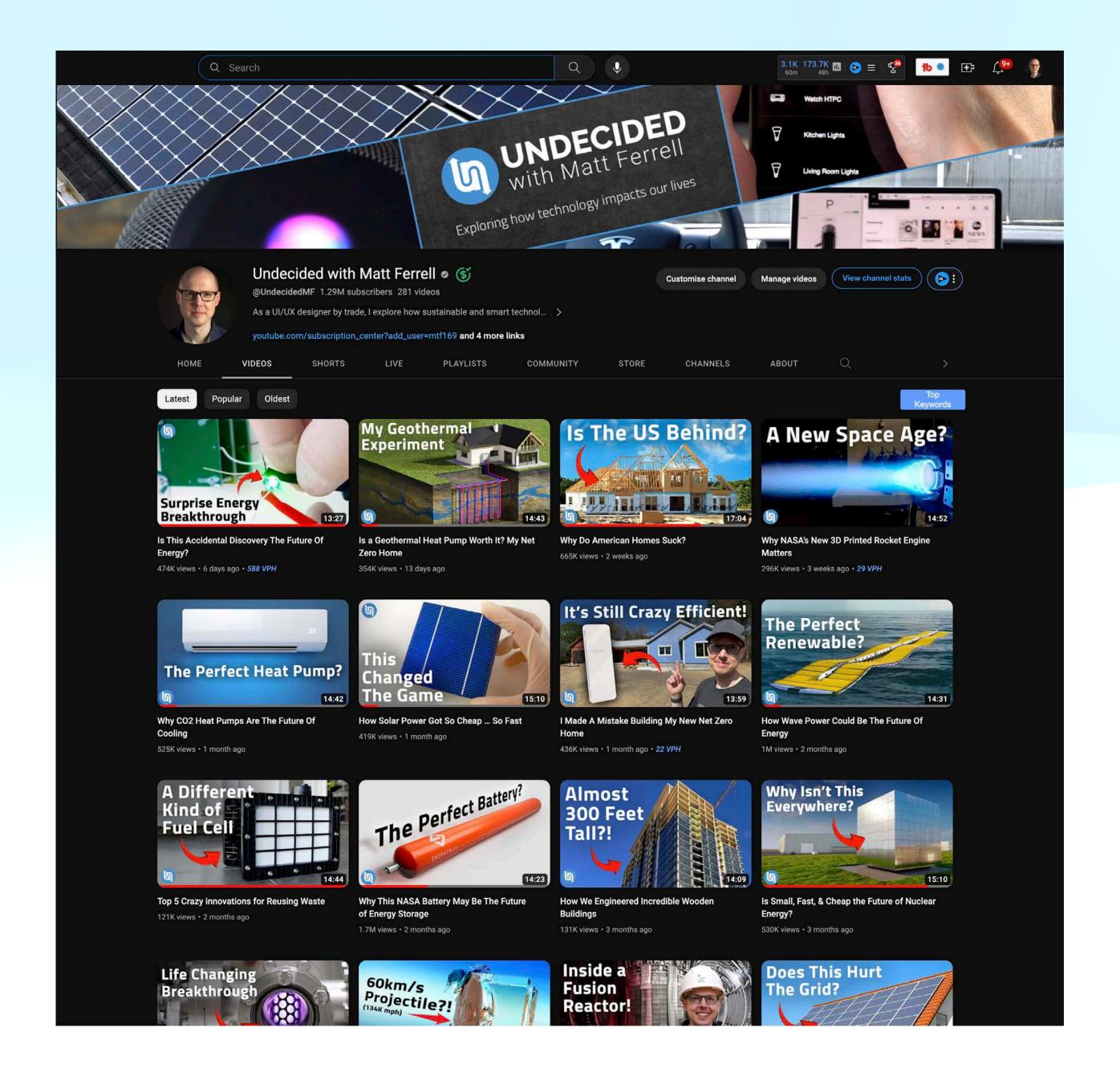
A Consumer's Perspective on Going Solar/Net Zero

Who Am I?

- Former UI/UX designer
- Background in communications and information design
- Tech enthusiast and early adopter
- Full time YouTube creator talking about sustainable and renewable technologies



What have I done?

Built a net zero home



Hopefully

The details We went a little nuts

- Factory built home (near Passive House level efficiency)
- Geothermal heating and cooling with desuperheater for hot water
- Heat pump water heater
- Energy Recovery Ventilator (ERV)
- Heat pump dryer, induction range, etc.
- Smart home features (automatic shades, etc.)
- Solar panels and home battery (NET ZERO!)

...hopefully



Why do this?

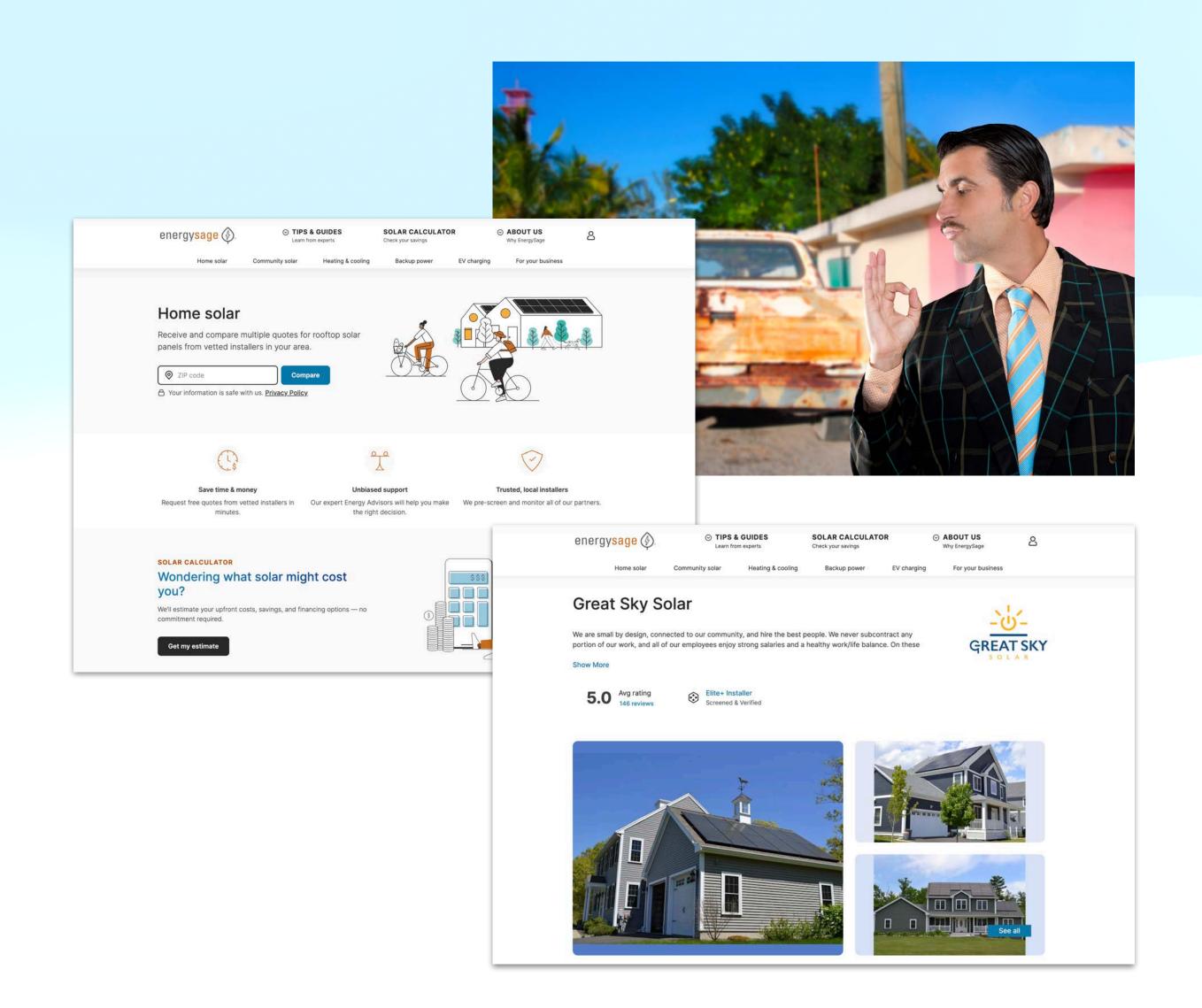
It's nuanced

- Environmental
- Security
- Financial

Finding a Solar Installer

AKA - The Wild West

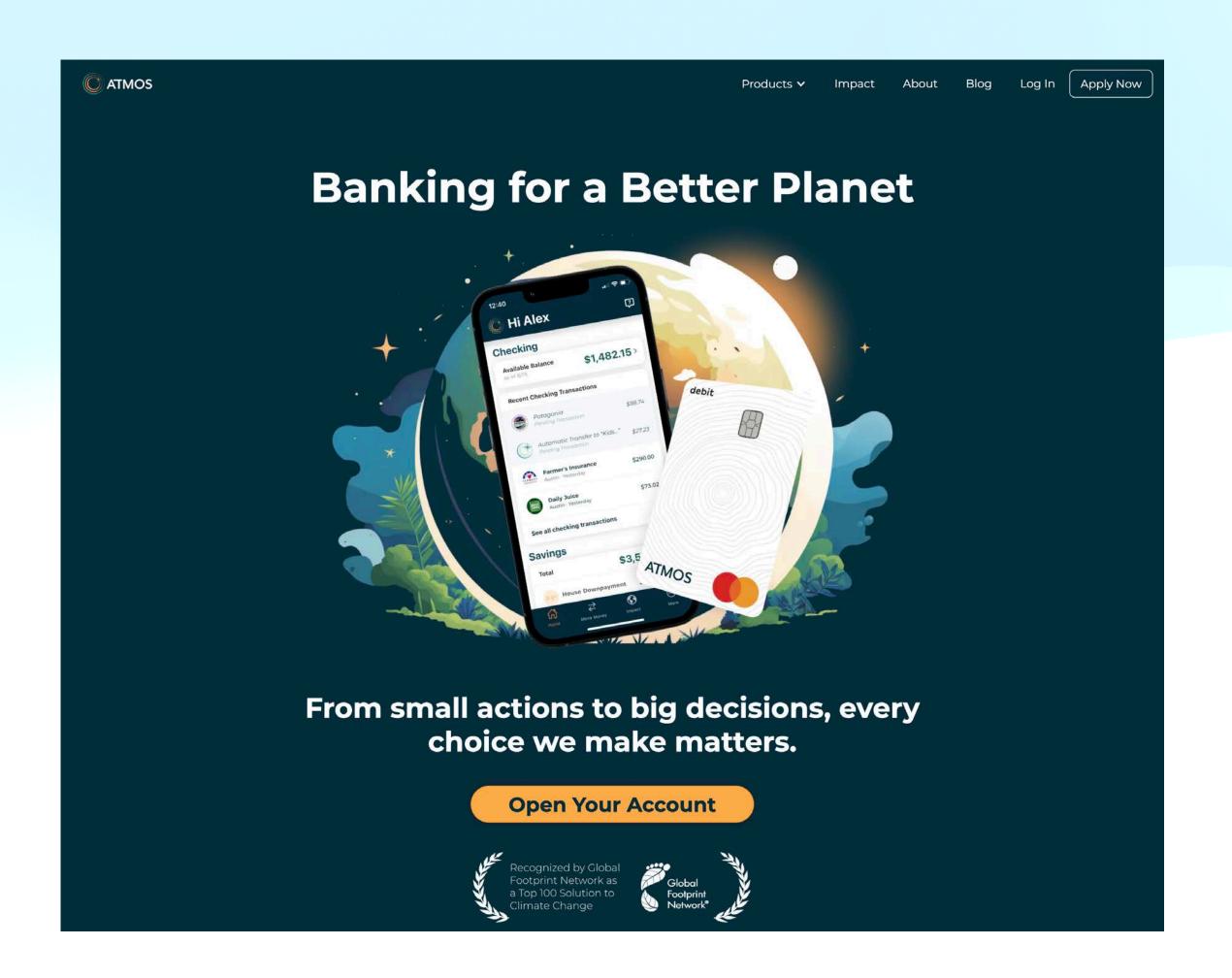
- Used car salesmen-like practices
- EnergySage
- Great Sky Solar repeat customer



Financing

The "not bad" side of this

- Pretty good options through credit unions and local banks
- Seamless experience with installer
- Online options like Atmos Financial



PV System and Installation

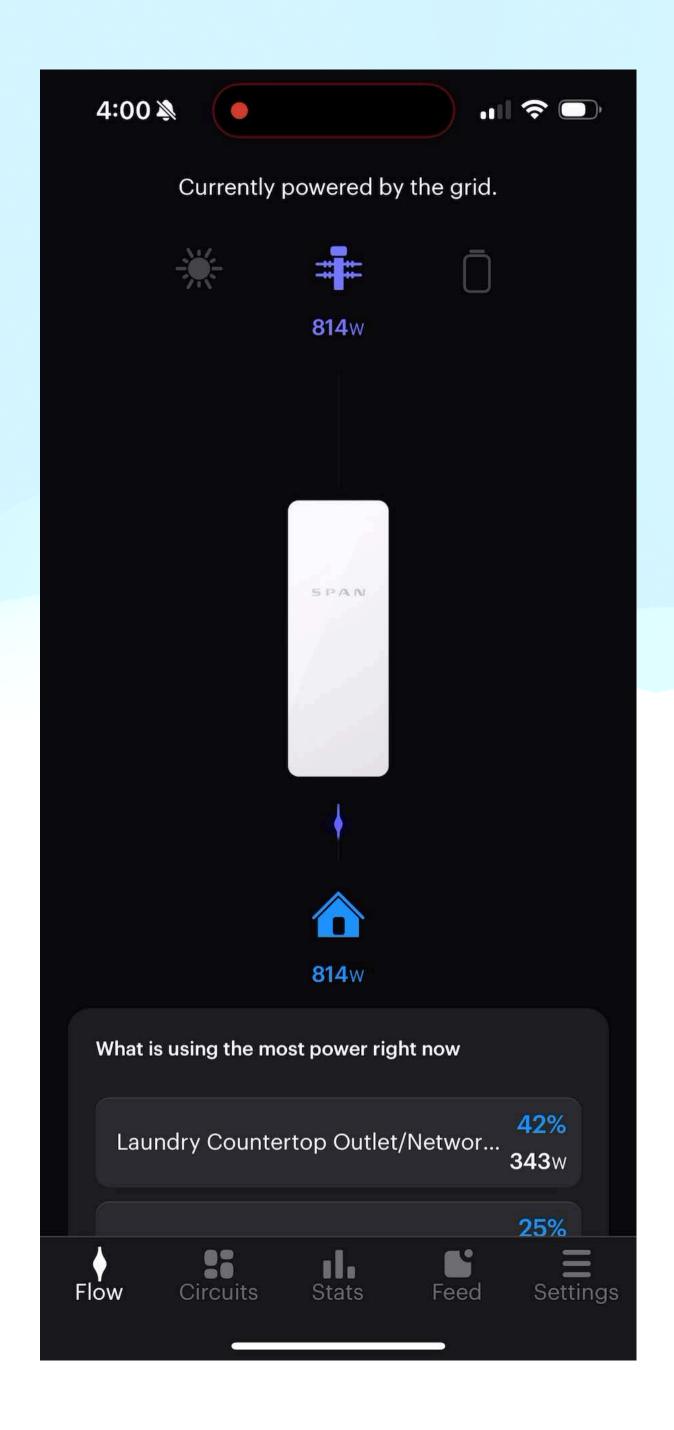
It can be overwhelming

- Trusting your installer's recommendations
- Doing your own due diligence
- Understanding your goals and needs



Predicting Energy Use Smart Home To The Rescue

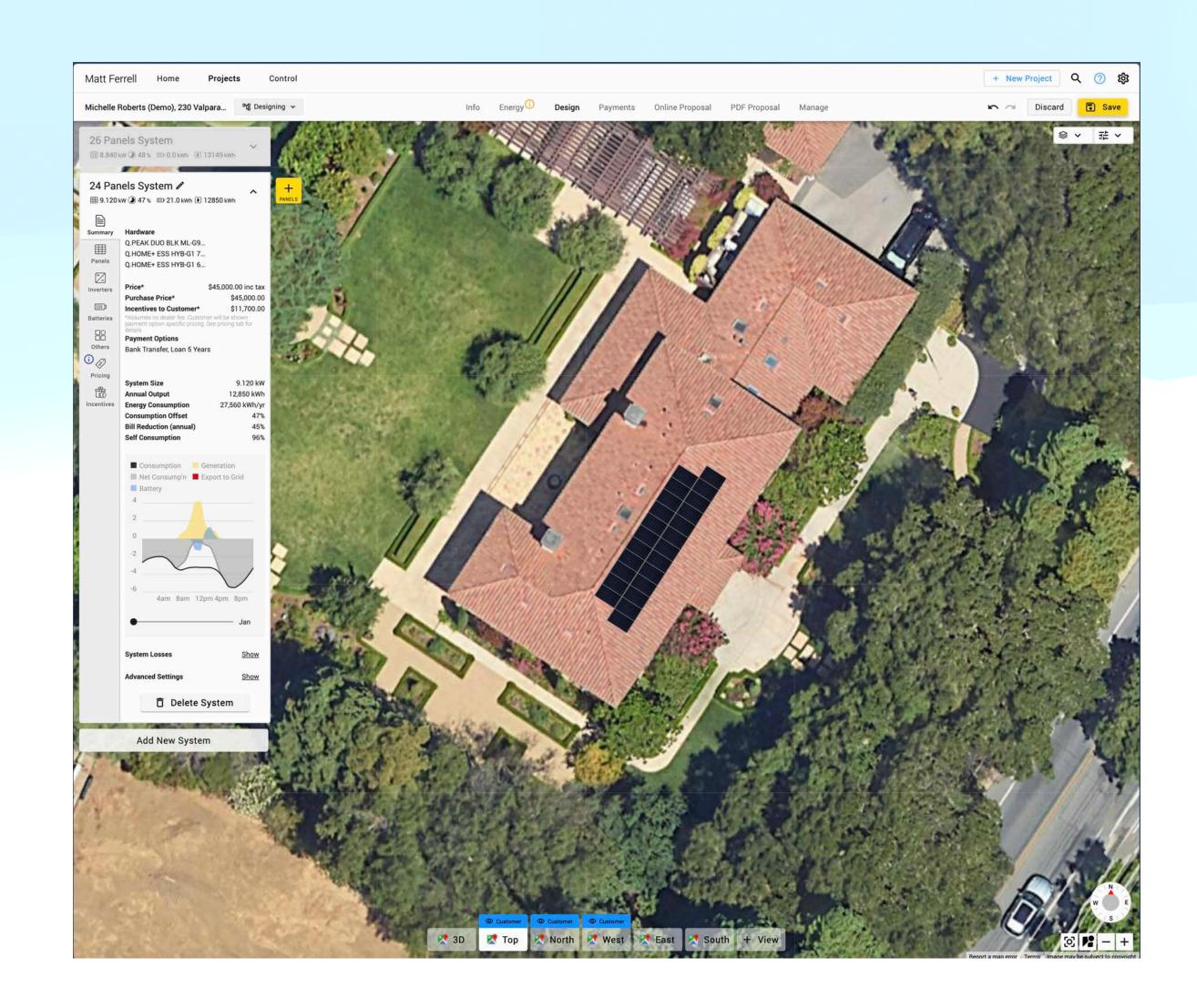
- Using data from my Span to narrow in on what was going to transition with us
- Reading a lot of appliance spec sheets
- Spreadsheet madness



PV System and Installation

It can be overwhelming

- Free online tools that help
 - opensolar.com



It's done ... almost

This has to get better



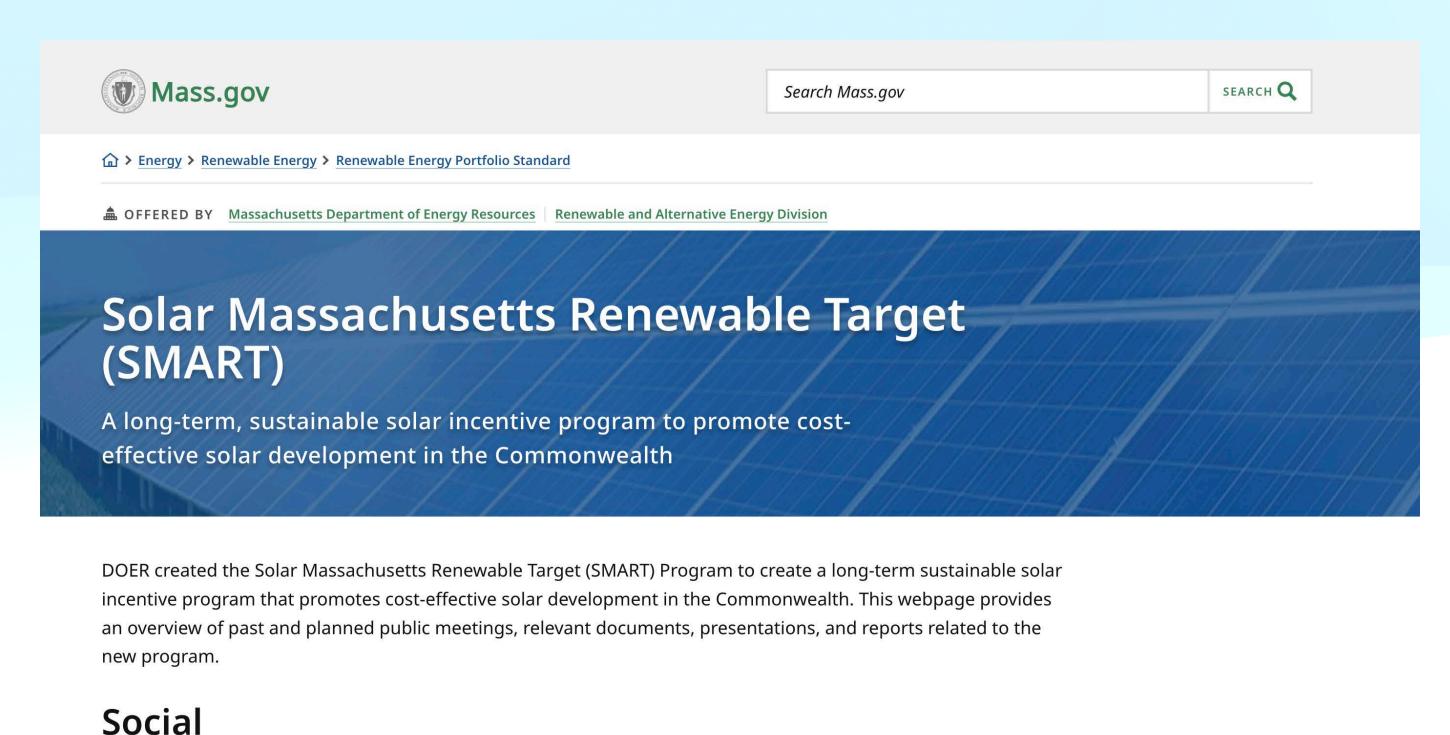
Navigating the Incentives The DOER Maze

- A lot falls on the shoulders of your installer
 - Hopefully you chose a good/ trustworthy installer
- Random accounts, forms, and authorizations



RECS SRECs, RECs, SMART, oh my

- SMART is no longer worth it
- REC market will be better financially
 - Average: 3.5 cents per kWH generated
 - Expected: ~\$600/year



What would you like to do?

MassDOER YouTube

Home Batteries

AKA "It's not worth it"

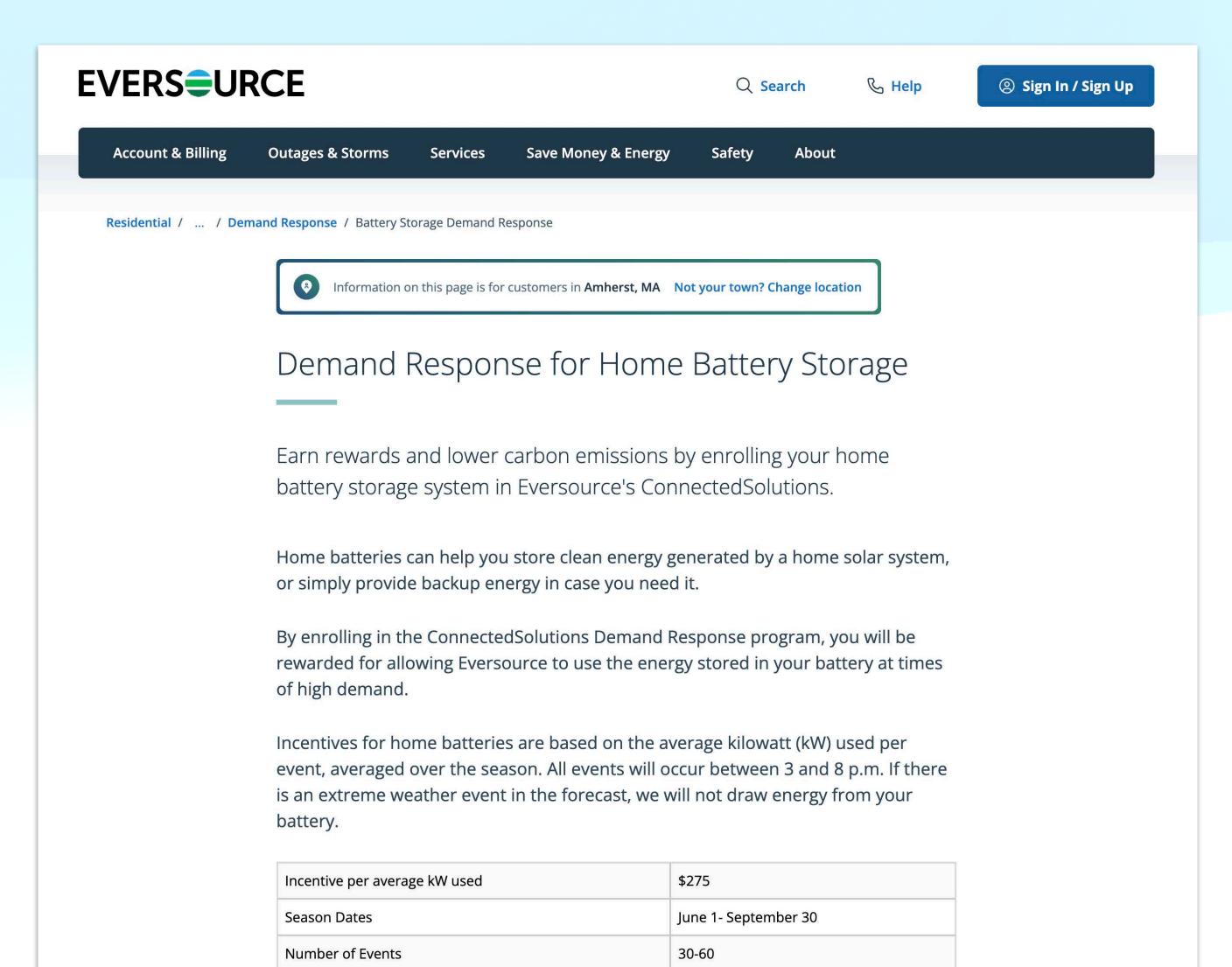
- Common refrain I kept hearing from random trades, "Batteries aren't going to be worth it."
- Regulations limiting the size
- Heat Loan madness



Connected Solutions

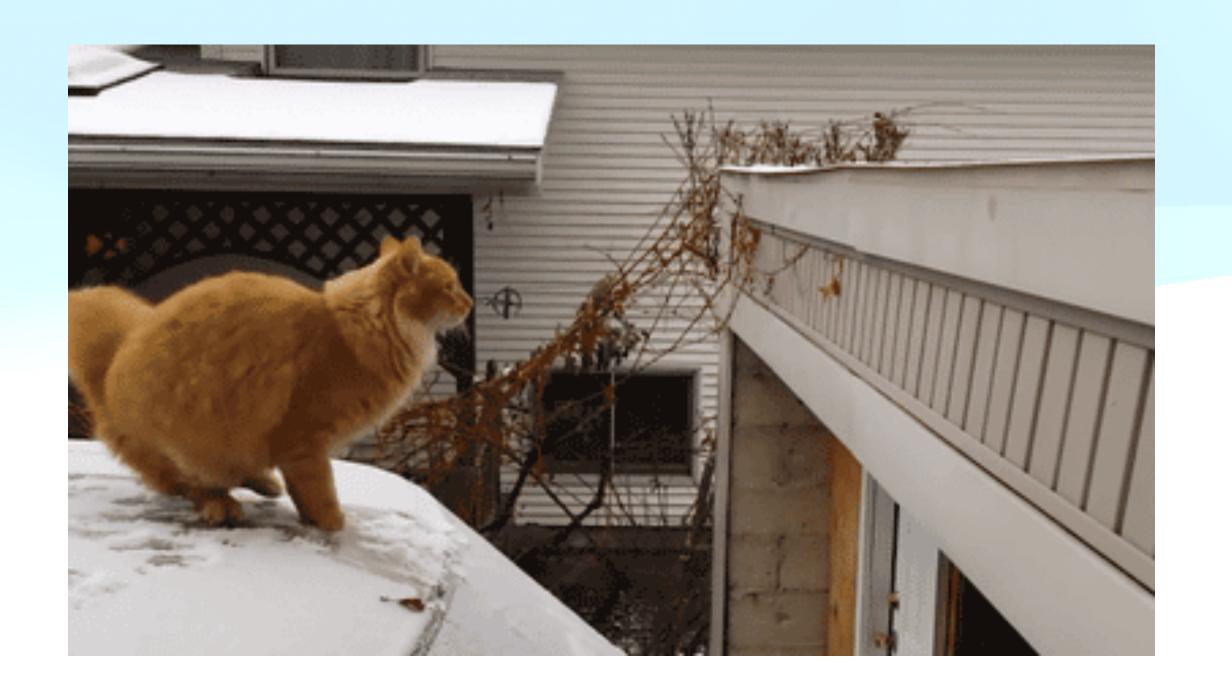
The secret weapon for batteries in MA

- No time of use rates
- Peak shaving benefits
- Previous benefits with 1
 Tesla Powerwall: \$700\$800/year



Final Verdict It has to be better than this

- DOER red tape
- Bad communication and instructions
- Leap of faith feeling



Net zero?



Hopefully