Solar For All Stakeholder Meeting 6/5/2025

OFFICE OF ENERGY POLICY

TEAM KENTUCKY®
ENERGY AND ENVIRONMENT CABINET

Agenda

Status of the grant and planning period

Presentation: Seth Long – Disaster Recovery

Overview of KY SFA's plan to incorporate disaster housing

Questions and Discussion

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About Us

Mission: To support the utilization of all of Kentucky's energy resources for the betterment of the Commonwealth while protecting and improving our environment.

Program Focus Areas:

- Energy Affordability
- Energy Education
- Energy Security

https://eec.ky.gov/Energy/Pages/default.aspx

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Status of the grant and planning period

- Revisions are almost complete on the Quality Assurance Project Plan and will be sent for approval with EPA shortly. We have started drafting a contract for the workforce project (more to come).
- Next steps include:
  - State contracting process for the workforce contract.
  - Drafting of contract documents for Disaster Recovery Housing.
  - Shifting our planning focus to the other programs in our workplan.

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Kentucky's SFA + Disaster recovery

Considering the increased rate of natural disasters in our state it is becoming more pressing to increase resiliency. OEP's plan for increasing resilient energy for recovering communities is to fund single family residential solar installs with battery storage.

OEP's SFA plan has set aside $25,882,500.00 for solar + battery storage on new and existing homes in disaster impacted communities.

For our first year we are going to focus on high ground communities and communities in the western region that have been or are being built for Kentuckians impacted by the tornadoes in the recent past.

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Questions and Discussion

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SOLAR READY HOUSING

WHAT IS SOLAR READY?

Solar Ready housing refers to homes that have been constructed to facilitate the installation of rooftop photovoltaic (PV) panels. Solar Ready homes benefit homeowners by providing flexibility in deciding when to invest in a PV system while making the solar installation less expensive and easier.

Homebuilders today are eager to market new constructions as "Solar Ready," but there are varying definitions of what features characterize a Solar Ready home. HOMES, inc. aims to establish a comprehensive industry standard for Solar Ready affordable housing to guide homebuilders and buyers. For more information, please access HOMES' In-Depth Solar Ready Housing Guide.

KEY COMPONENTS

Roofing

- **Roof Shape and Orientation:** install the PV array on a rectangular roof pointing true South.
- **Roof Obstructions:** Keep South and West facing roofs clear of obstructions and penetrations.
- **Shading:** Account for present and future shading.
- **Roofing Material:** select roofing material warrantied to accommodate and outlast the solar array
- **Roof Pitch:** Roof pitch between 3:12 – 6:12 is optimal for panel efficiency and ease of installation
- **Roof load:** account for dead loads from solar panels, wind, and snow.

Electrical

- **Electrical service capacity:** Select a main electrical service panel with capacity to accommodate total power coming into the building. At least 200 amps is recommended.
- **Additional Conduit:** Run conduit from the attic to the main load panel and from the crawl space to the main load panel.
- **Breaker Spaces:** Leave at least four available breaker spaces in the outdoor disconnect to allow for future solar interconnection
- **Compatibility:** Ensure inverters are compatible with storage capacity and EV charging systems.

PRIORITIZE ENERGY EFFICIENCY

Energy Efficiency improvements are still the most cost effective way to save energy and reduce utility bills. Optimizing the energy efficiency of the home prior to a PV installation will minimize the PV array size and cost necessary to eliminate and offset the home's grid electricity consumption. HOMES, inc. recommends achieving a HERS rating of 50 prior to the installation of PV panels.

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