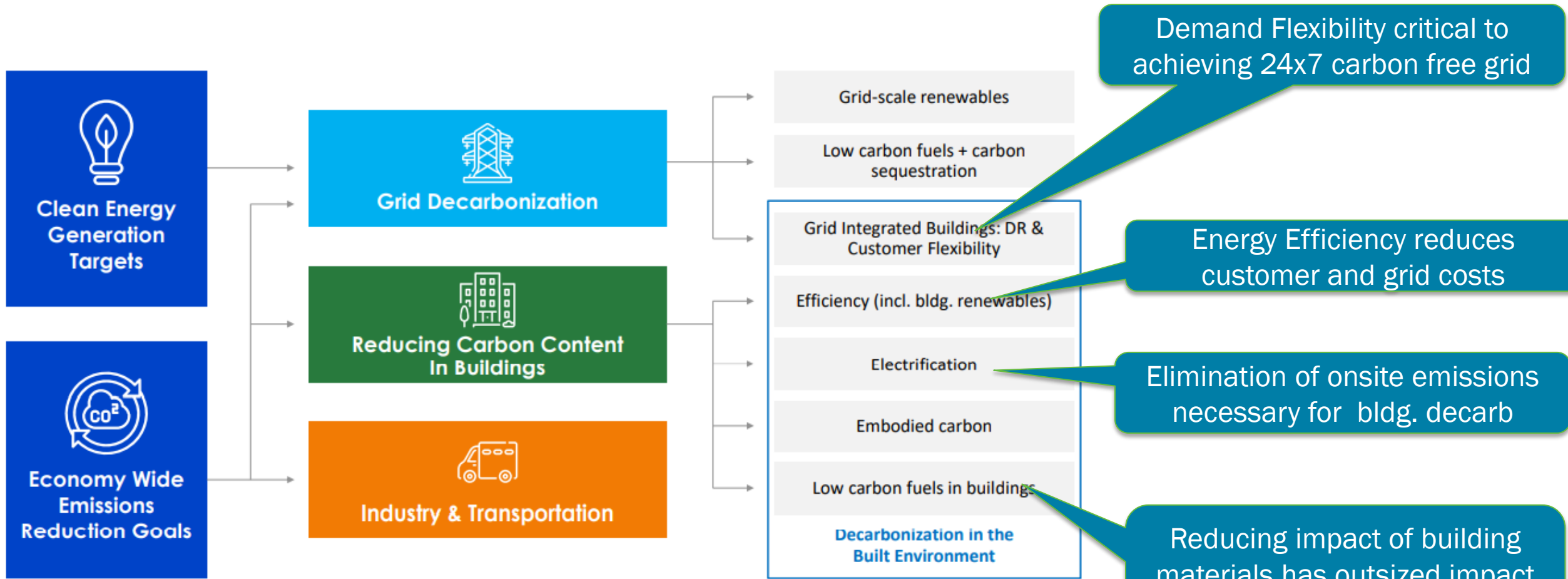

Decarbonization of Heat

Ram Narayanamurthy, Dept. of Energy

Ram.Narayanamurthy@ee.doe.gov

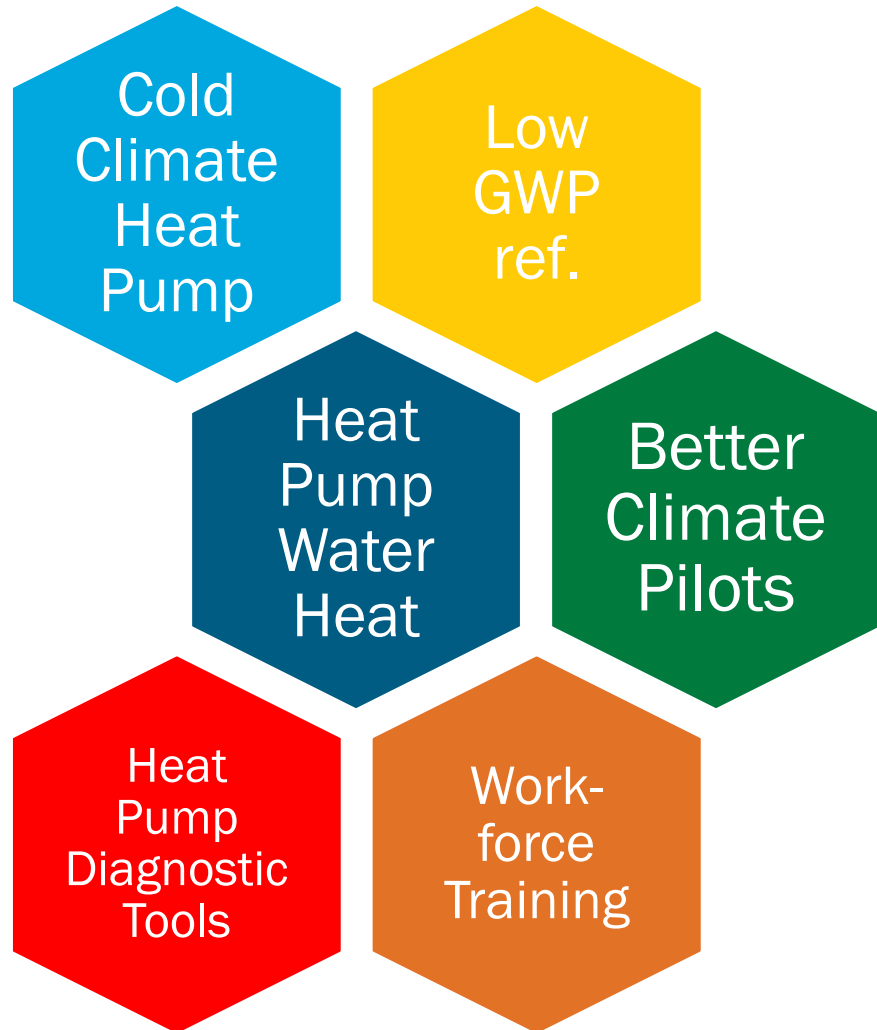
9.22.2022

Pillars of Building Decarbonization



How do we achieve this equitably and affordably?

The Energy, Emissions and Equity (E3) initiative



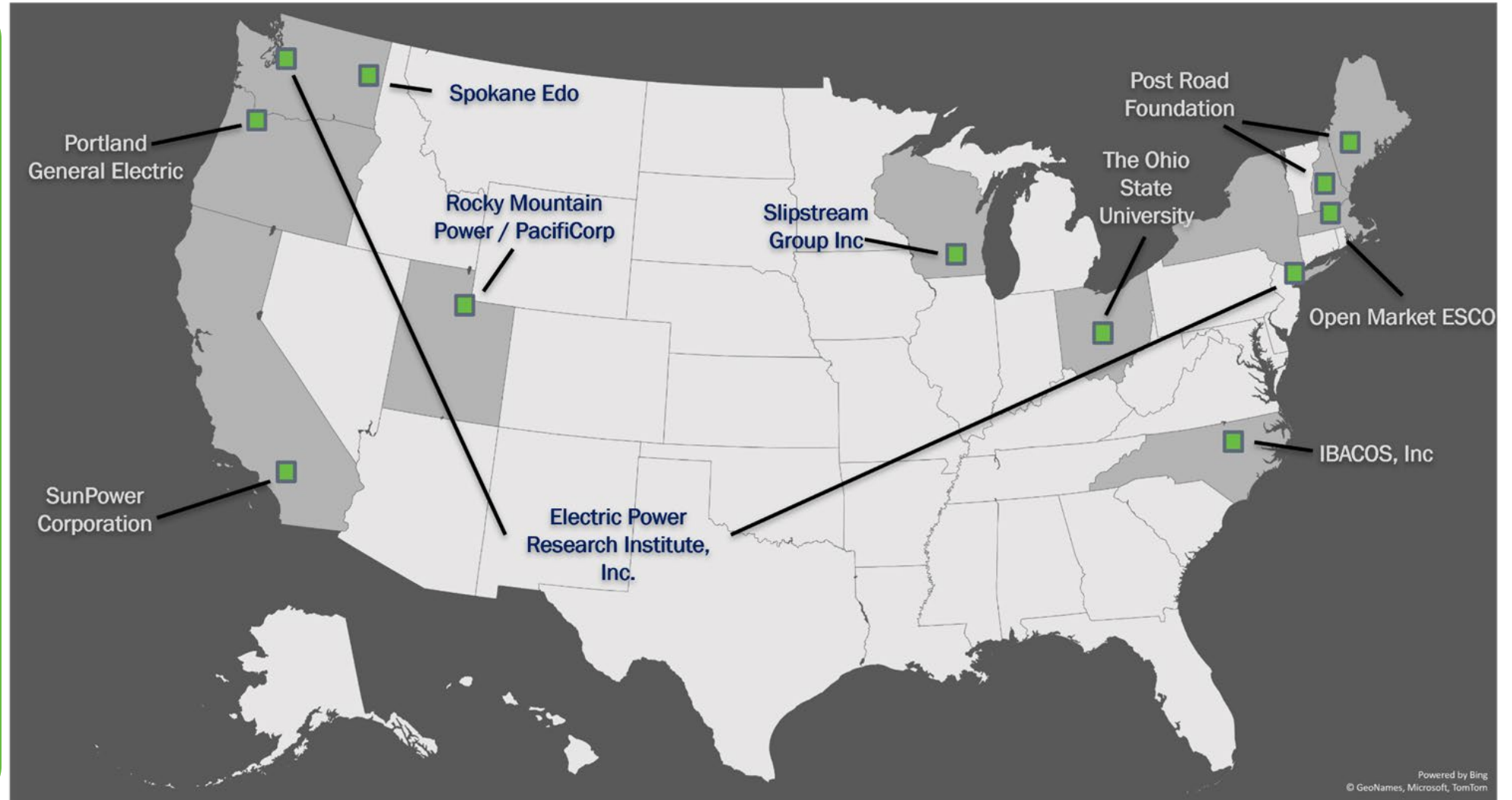
The E3 initiative is focused on developing, demonstrating and deploying heat pumps at scale

Connected Communities Project Awards



10 Selected Projects

- \$61 Million Total funding
- Final Awards expected May 2022.



www.energy.gov/eere/buildings/articles/meet-does-newest-connected-communities-grid-interactive-efficient-buildings

Technologies that can potentially reduce cost of electrification



High Efficiency 120V heat pumps
(140 units deployed)



Smart panels for demand control



Low power HPWH (120V
potential) with storage

Example technologies within a portfolio to help in reducing the demand for electric infrastructure upgrades

Innovation and Policy Measures to Solve the Heat Challenge

Global Clean Energy Action Forum
September 22, 2022
Pittsburgh, PA, USA



David
Smedick
RMI



Monica
Axell
RISE



Ram
Narayanamurthy
US DOE



Araceli P.
Fernández
IEA



Jon
Saltmarsh
UK BEIS



Piero
De Bonis
EC



Caroline Haglund
Stignor
RISE



Martin
Forsen
EHPA