

# GROUND SOURCE HEAT PUMP PILOT PROJECT

## Delivering Cutting Edge Technology to Low Income Households

Ground Source Heat Pumps (GSHPs) have propelled themselves to the forefront of the clean energy conversation. Armed with grant funding, Homes For Good, NW Natural, and Geonomic Developments Inc. partnered on a pilot in the Pacific Northwest to install GSHPs for single-family homes in lower income neighborhoods.



### PROBLEM

#### ACCESS

- High cost barrier
- Lack of knowledge
- Installation complexity

### OPPORTUNITY

#### DEVELOPMENTS

- Partner funding
- Awareness & Accessibility
- Innovative directional drilling technology

### PILOT PROJECT

#### ON THE GROUND

- 14 income eligible homes to receive a free hybrid GSHP w/ gas furnace
- Follow up maintenance & system evaluation for 1 year

### GOALS

#### OBJECTIVES

- Lower energy burden
- Reduce reliance on gas & CO2 emissions
- Provide year-round comfort with reliable heating & cooling

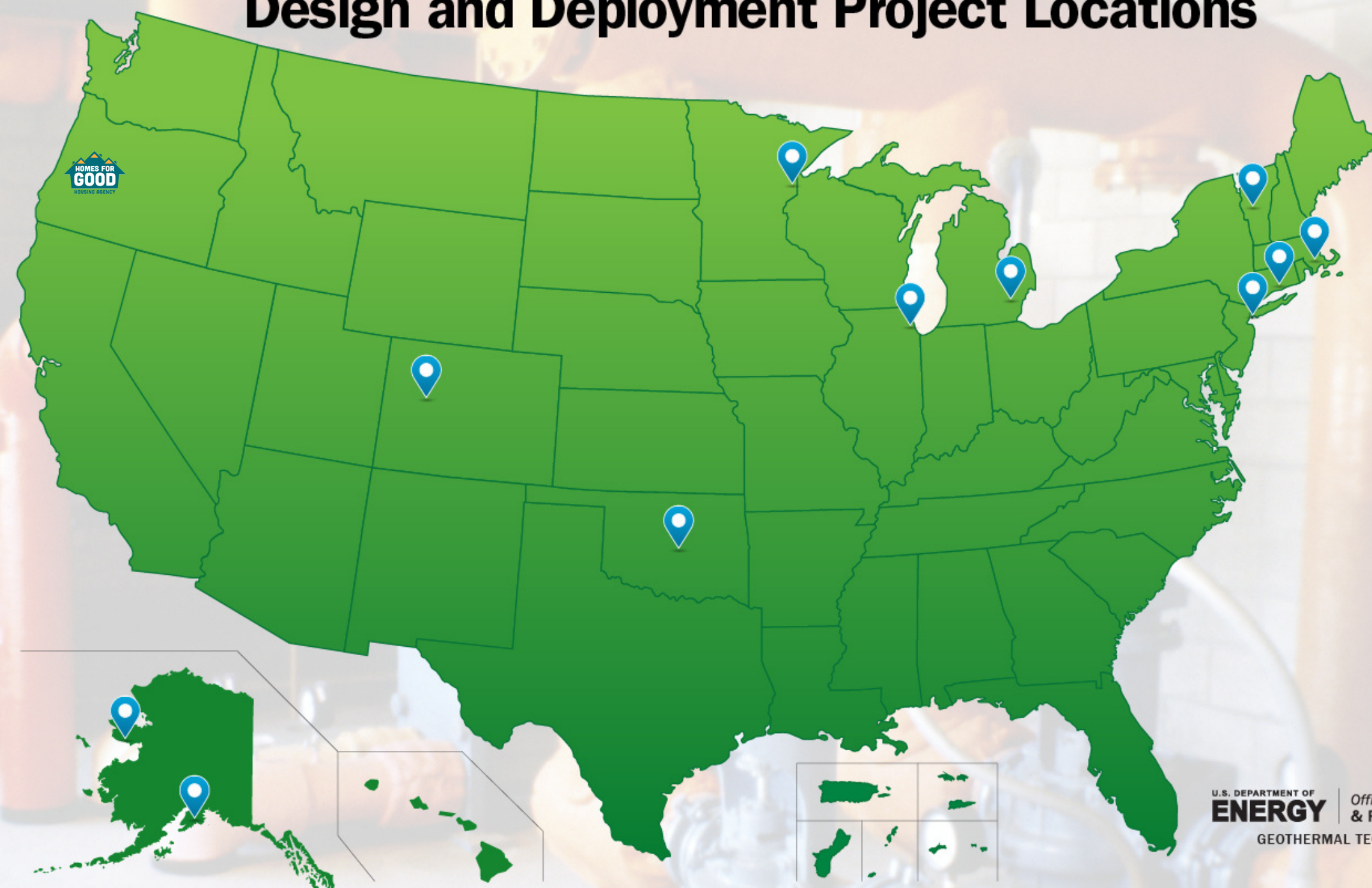
# REAL ANSWERS FOR REAL PEOPLE

Due to historically high up-front costs, ground source heat pumps have often been unobtainable for low-income households. While becoming increasingly affordable and efficient following technological advancements, there has been little movement to incorporate next generation electrification-friendly energy sources into public weatherization and energy assistance programs.

Technology gaps within the energy sector prevent large scale implementation of high efficiency energy saving measures. Community partnership allows for further innovation, and bolsters assistance to energy burdened and vulnerable communities.

## FEDERAL SUPPORT & TREND SETTING

### Community Geothermal Heating and Cooling Design and Deployment Project Locations



U.S. DEPARTMENT OF  
**ENERGY** | Office of ENERGY EFFICIENCY  
& RENEWABLE ENERGY  
GEOTHERMAL TECHNOLOGIES OFFICE

Locations of selected communities for the U.S. DOE geothermal heating and cooling initiative (source: U.S. DOE)

# JOINING FORCES



**Partner  
Funding**

**Awareness  
&  
Accessibility**



**NW Natural**<sup>®</sup>  
*We grew up here.*

**Innovative  
Technology  
&  
Commitment**

