

# Adding Insulation when Re-Siding (AIRS)

## **Project Background**

The process of removing old siding and replacing with new is the perfect time to add exterior continuous insulation and air seal. One inch of rigid insulating sheathing, taped and detailed to act as the air and water barrier, typically...

- Improves thermal & moisture performance of walls
- Allows for the use of off-the-shelf trim and moldings
- Maintains most siding warranties
- Increases occupant comfort (temperature and noise)

PNNL has been funded by the U.S. Department of Energy (DOE) to perform up to 70 of these energy upgrades in the Mixed-Humid climate zone for qualifying homeowners at no cost to them – an average value of about \$4,000 per house.

## Why the **Mixed Humid** climate zone?

- Accounts for <u>30% of housing stock</u> that can benefit from these upgrades
- Investment metrics are excellent
  - Energy savings of ~12 20%
  - Payback period of <u>7 13 years</u>
  - Positive Net Present Values

A primary project outcome for PNNL will be educational and informational materials using real-world examples of the advantages of this type of energy upgrade, based on **professional feedback from re-siding contractors**.

We're looking for contractors who want to get a foot in the door on this exciting new opportunity.

See <a href="https://www.pnnl.gov/projects/re-siding-ext-insulation">https://www.pnnl.gov/projects/re-siding-ext-insulation</a> for more info.

## **Contractor Participation**

#### **Benefits:**

- Additional work, paid for by the project at your standard rates
- · Installation guidance for the energy upgrade
- Collaboration with building scientists and manufacturing leaders
- Case study information (photos and testimonials) for your own future marketing efforts

#### **Expectations:**

- 1. Present PNNL informational project material to homeowners who have already accepted your re-siding bid,
- Modify participating homeowner's scope-of-work to add insulation and air sealing to the standard re-siding project, and prepare an invoice that covers the additional costs,
- Work with PNNL and the advisory group to refine installation methods for the energy upgrade and prepare your crew for the added scope,
- 4. Source, purchase, store, and transport upgrade materials,
- 5. Install the upgrade materials per methods developed in collaboration with PNNL and the advisory group,
  - a. Request support from PNNL research team as necessary,
- 6. Provide project material and labor reports to PNNL for each house,
- 7. Provide project invoices to PNNL for the additional cost of the energy upgrade for each house,
- 8. Share insights and learnings, participate in pre- and post- study interviews,
- 9. Provide 3 to 12 project-inclusive jobs over the next 18 months.

#### PNNL will:

- Provide bldg. science and installation support to contractors
- Promptly pay invoices
- Protect homeowner privacy

#### PNNL will not:

 Interfere in the contractor / homeowner relationship