

# Project Stove Swap: Appliance Change-Outs in Northern Minnesota

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**Environmental Initiative builds  
partnerships to develop  
collaborative solutions to  
Minnesota's environmental  
problems.**



# CLEAN WATER LAND & LEGACY AMENDMENT



MINNESOTA SUSTAINABLE GROWTH COALITION



MIDWEST ROW CROP COLLABORATIVE



# Our Impact



# Slowing Down for Greater Impact

Centering Partnership for Success

## Participant Testimonials

“I wouldn’t have this stove without Project Stove Swap. Not having to keep putting wood in is life changing.”

*-Ken, Project Stove Swap Participant*

“When the snow is fresh and you have a wind overnight, there aren’t those black particles on the snow.”

*-Kevin, Participant*



# Key Takeaways for Partnerships

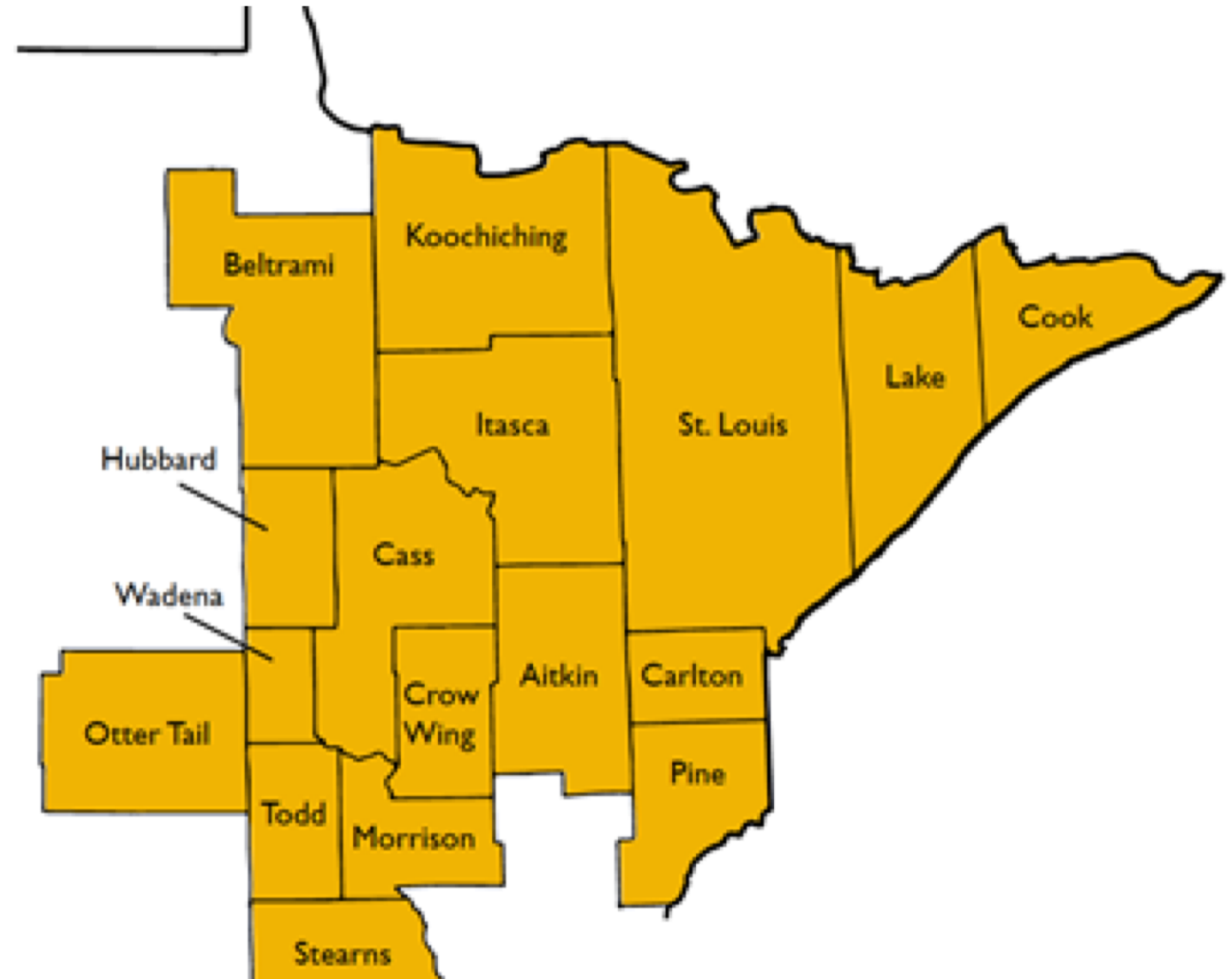
- Conducting in-person meetings with all prospective vendors helped foster relationships
- Seeking connections in the margins led to less obvious funding sources
- Leaning on industry partners helped create connections with potential vendors
- Continued engagement in the region after launch increased buy-in for vendor partners



# Program Operation

# Project Stove Swap 2016-2019

- 17 Counties in Northern MN
- 13 Vendors
- Initial funding through Minnesota Power
- Additional funding leveraged from private, public and grant sources
- Project guidelines allowed for slower ramp-up with focus on partnership building





# Project Application Flow

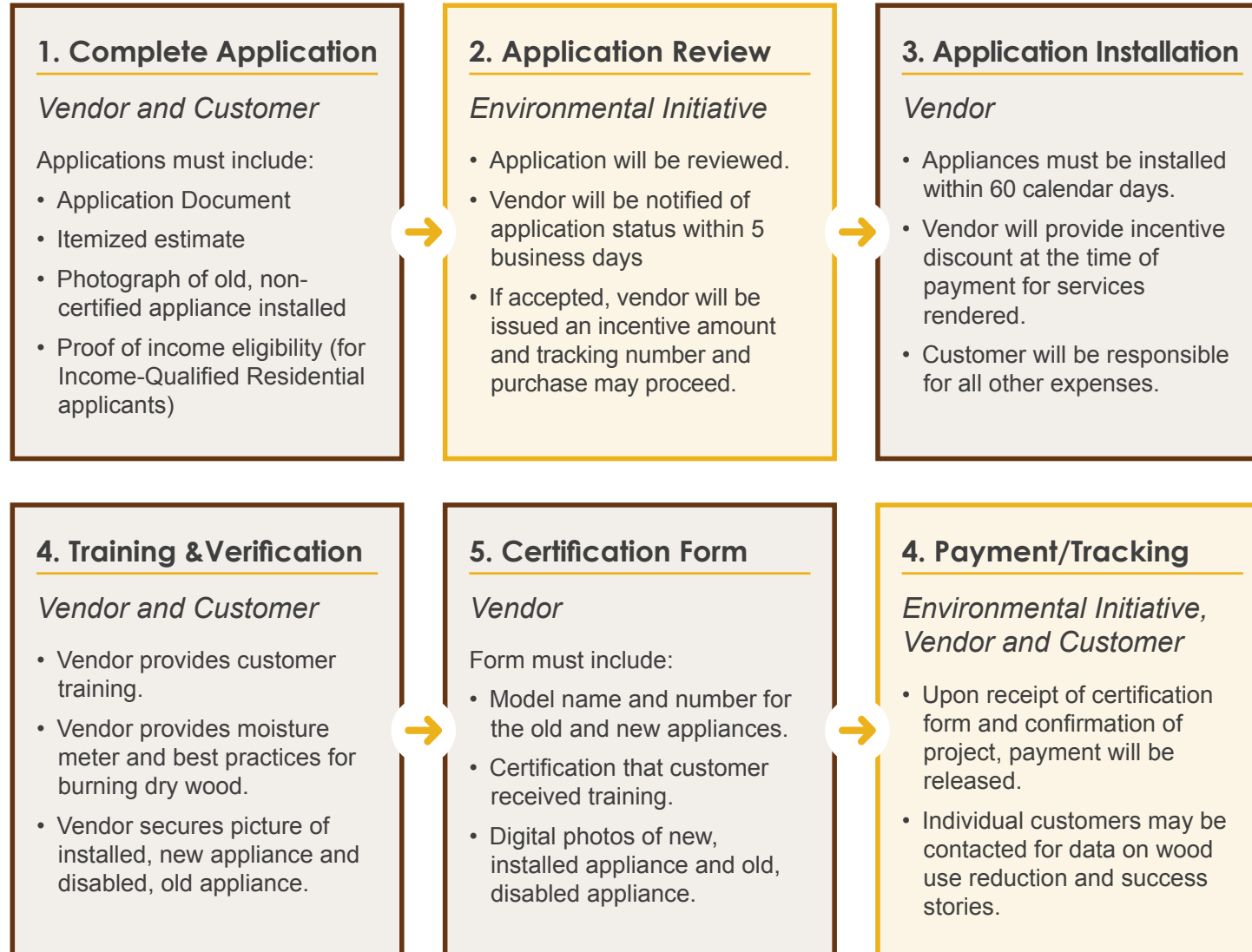


Figure 1: Process Chart

## Vendor Impacts

*"Because of Project Stove Swap, the Fireplace Lifestyles team and their key manufacturing partners added more employees to assist in every department. Project Stove Swap has allowed our customers, and ourselves, to go a long way down the road toward lowering heating bills and improving air quality."*

*-Mary Lynn Salisbury, President of Fireplace Lifestyles*





# Program Outcomes



Project Stove Swap helps Minnesotans breathe easier by getting them newer, more efficient appliances. In the Northern Arrowhead region alone, we have...

partnered with  
 **13**  
**small businesses**

invested **\$\$\$\$**  
**1.9 million**  
**dollars**  
**\$\$\$\$**   
in local **economies**

**cut heating costs** for **\$\$\$**  
roughly **30**  
  
income-qualified households

**swapped**  
**322**   
**appliances**

**removed** the **air emissions**  
equivalent of more than   
**985,000**  
 **cars** from the road

# Project Stove Swap Outcomes

- 322 appliance change-outs
  - 126 wood to gas stoves
  - 78 EPA-certified wood stoves
  - 68 indoor or outdoor hydronic heaters
  - 44 gas furnaces
  - 6 pellet stoves
- 32.2% of appliances installed were made in Minnesota

Emissions Reductions (in tons)			
PM 2.5	VOCs	NOx	CO
56.084	30.054	1.493	235.593

# Example Wood Stove Change-Out

One of the final change-outs completed. This barrel stove was in the middle of the participant's living room.



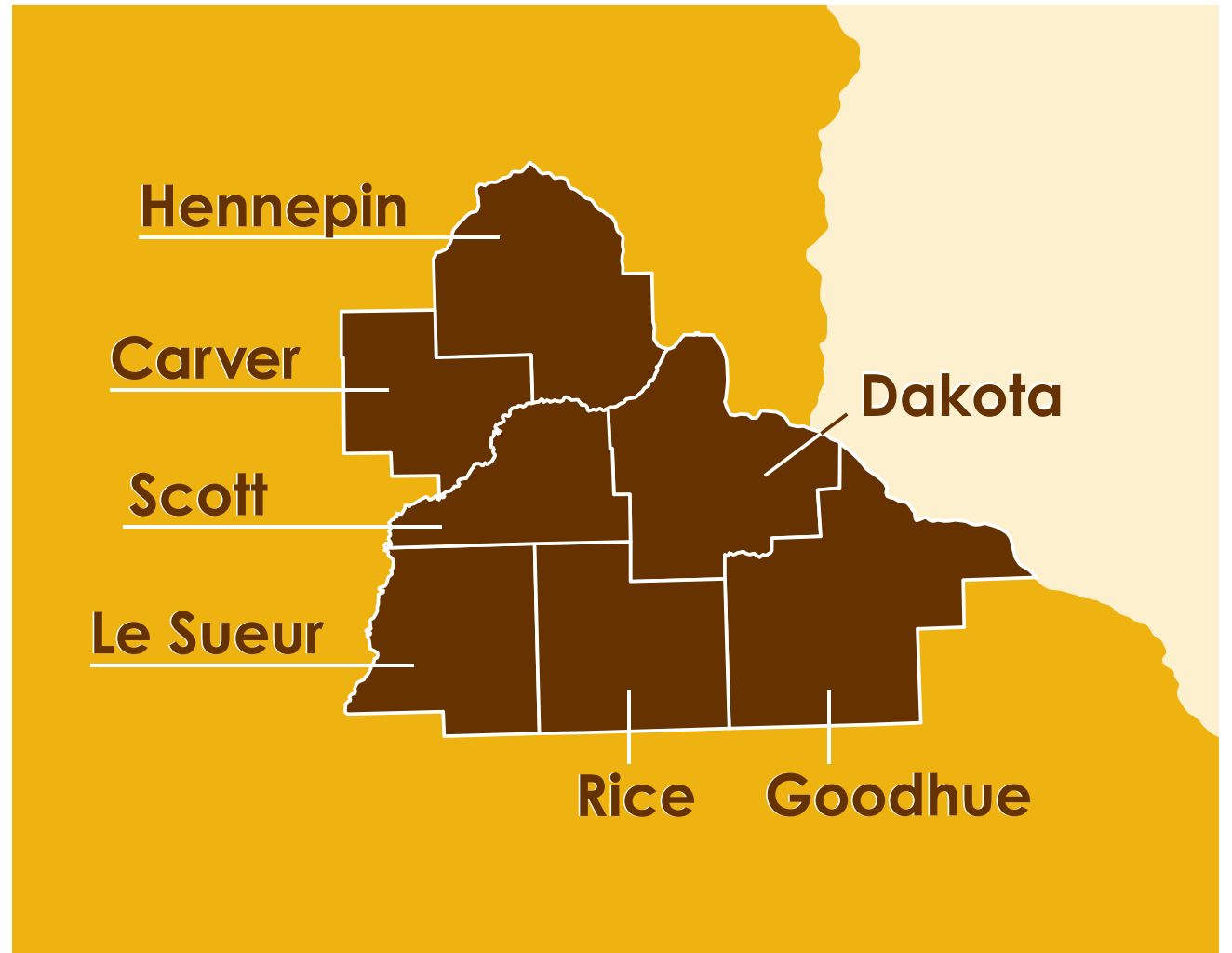


# Next Steps

Transitioning Project Stove Swap to the Metro Area

# Metro Area Project Stove Swap

Current iteration of Project Stove Swap focused on the metro counties around the Minneapolis-St. Paul area.







**Questions?**