

Help My HOUSE!

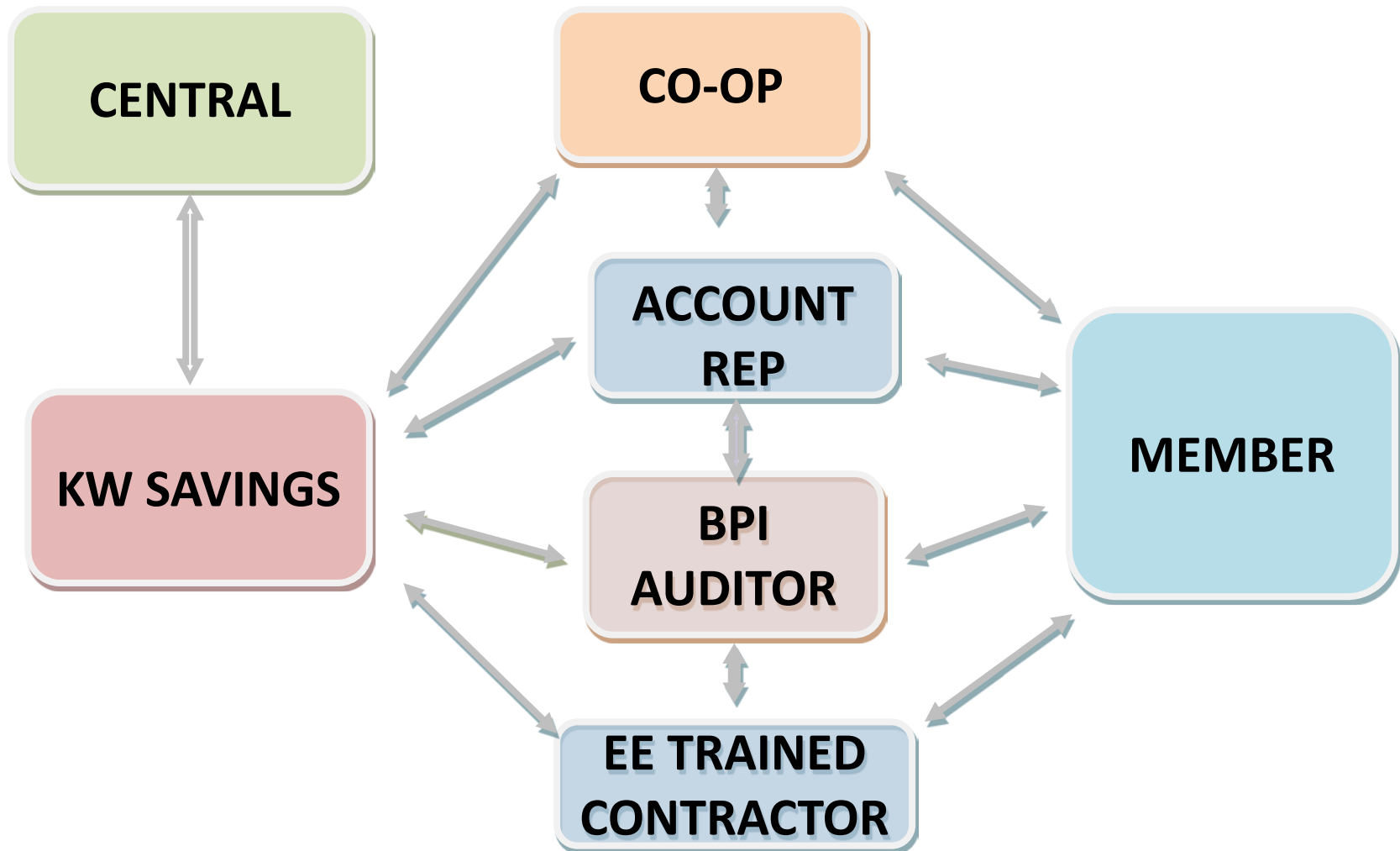


Shape Up Your Home for Energy Savings

MIKE SMITH

Central Electric Power Cooperative

HMH Pilot Structure and Process



HMH Pilot Process

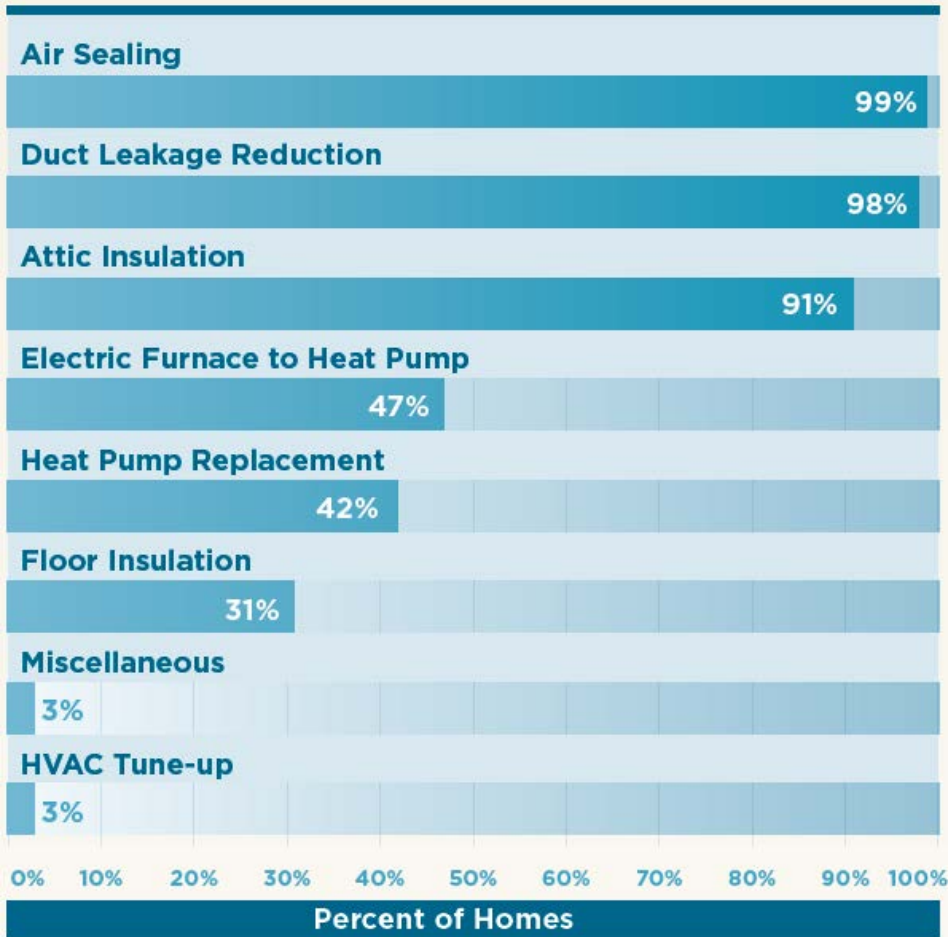
1.	Participant Selection
2.	Visual Audit
3.	Comprehensive Audit
4.	Loan Approval & Contractor Selection
5.	Measure Installation
6.	Final Inspection & Project Approval

Manufactured Homes

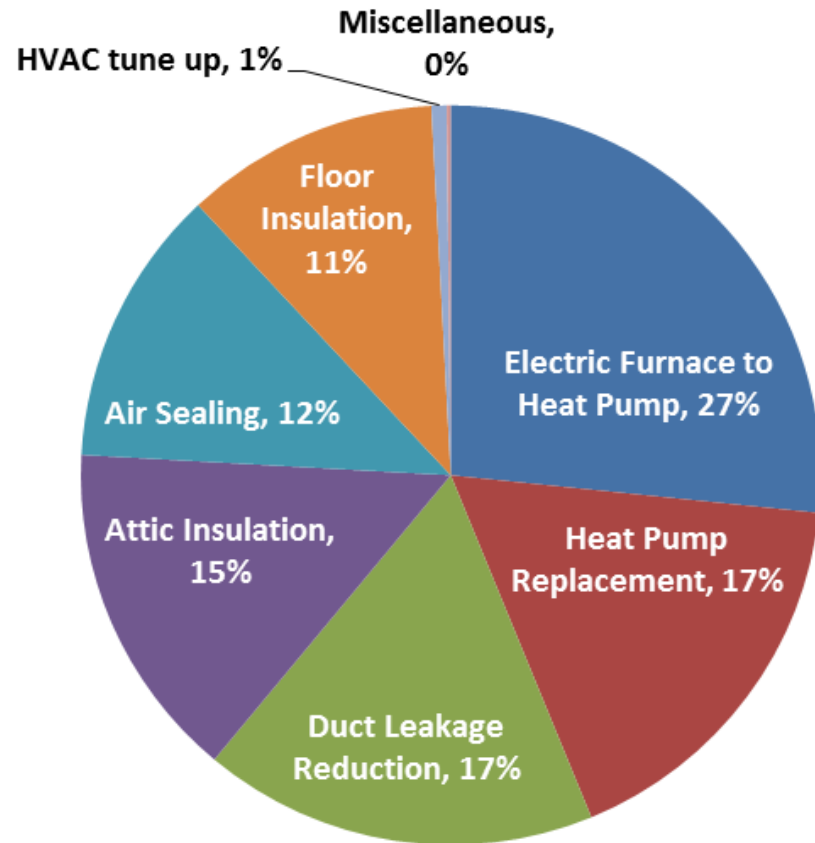


Measures

Percent of homes with each measure



Percent of savings from each measure

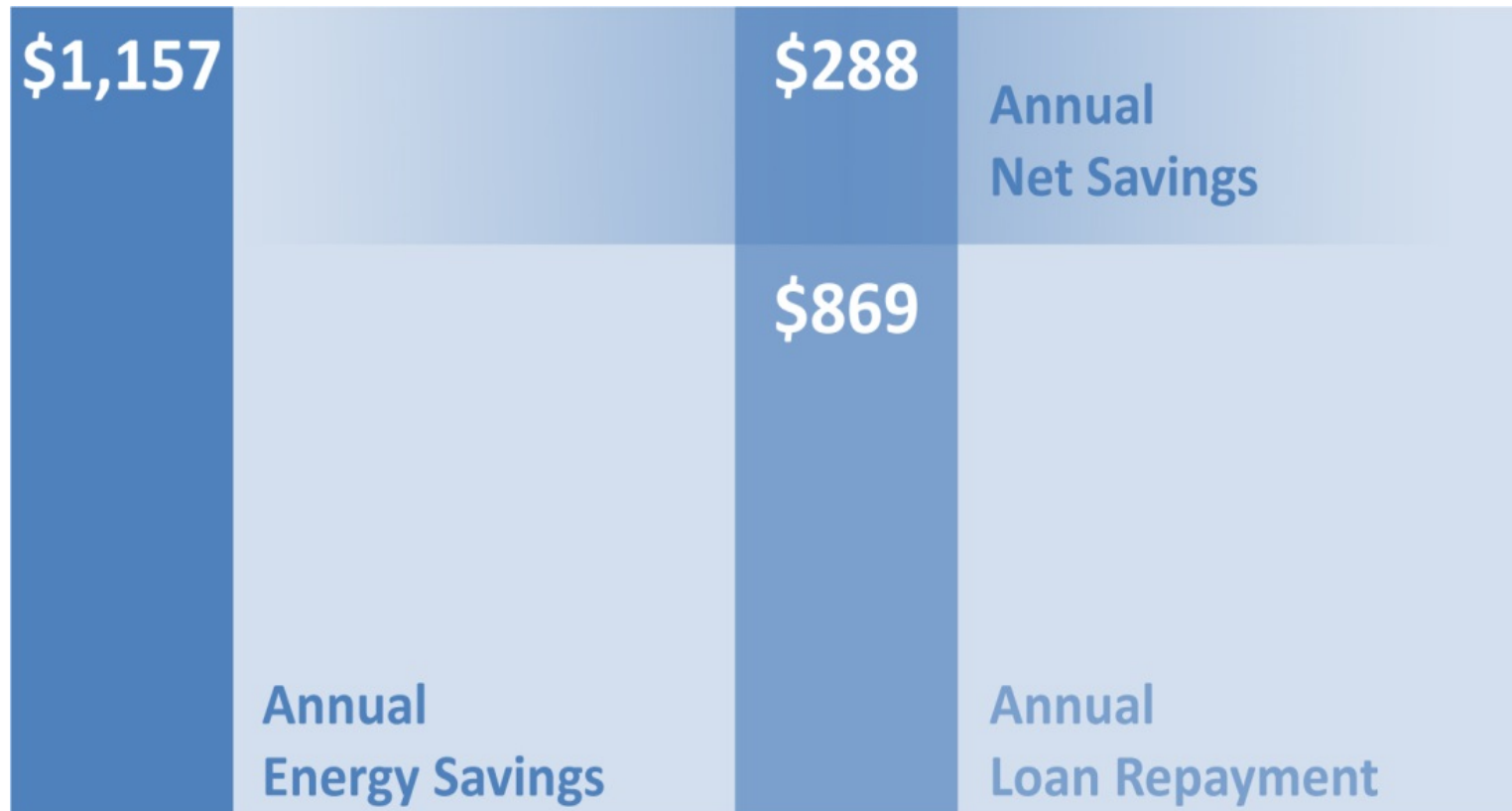


Measured Results Close to Predicted

	Predicted	Actual
Annual kWh Savings	11,593 kWh	10,809 kWh
Annual \$ Savings	\$1,285	\$1,157
Project Costs	\$7,684	\$7,684
Project Simple Payback	6.0 years	6.6 years

All values are per home averages for a typical meteorological year.

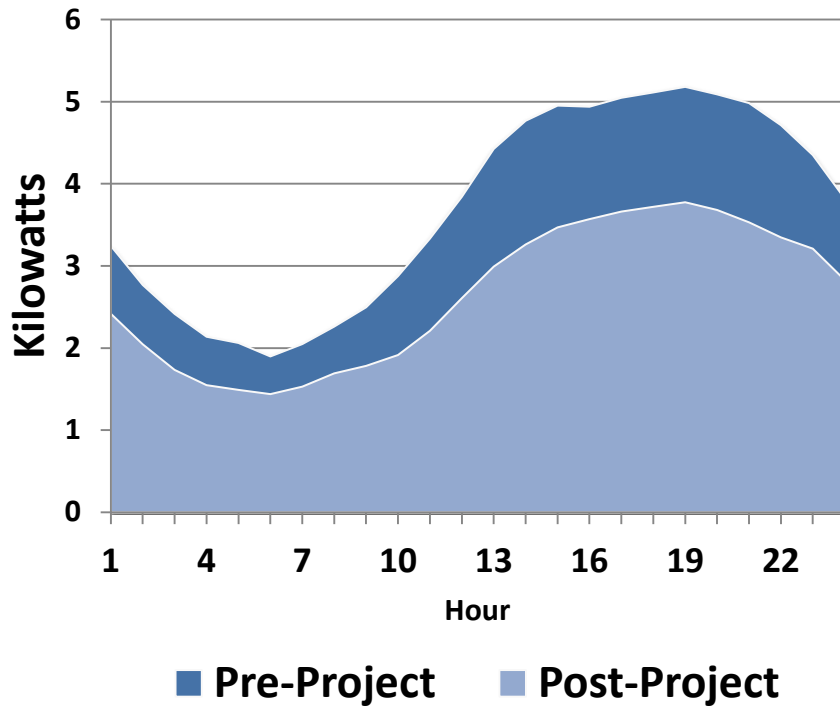
Annual Savings: Average HMM Home



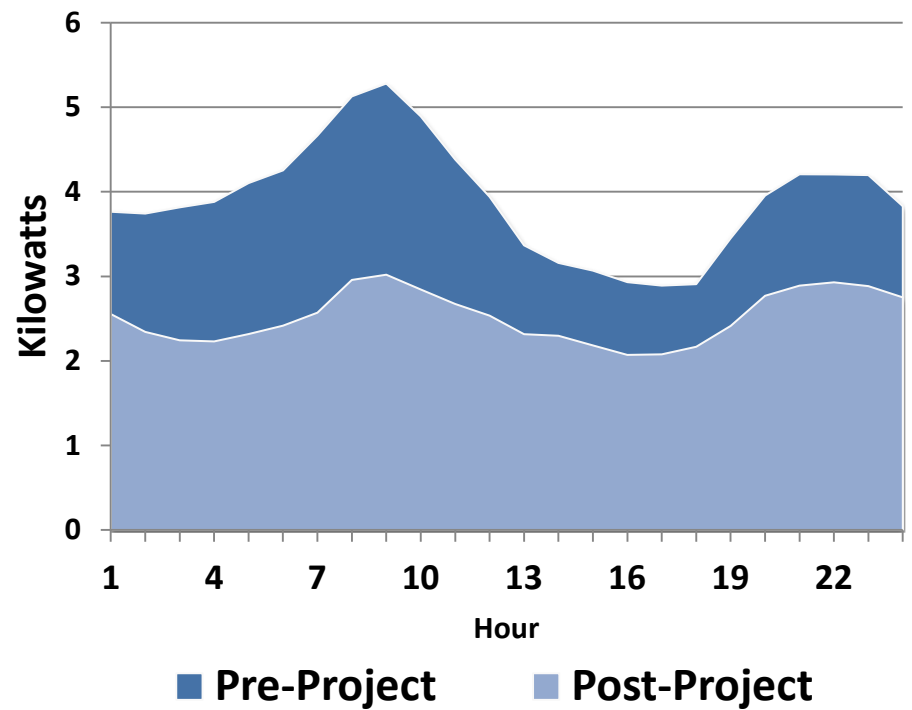
All values are per home averages for a typical meteorological year.

Demand Savings

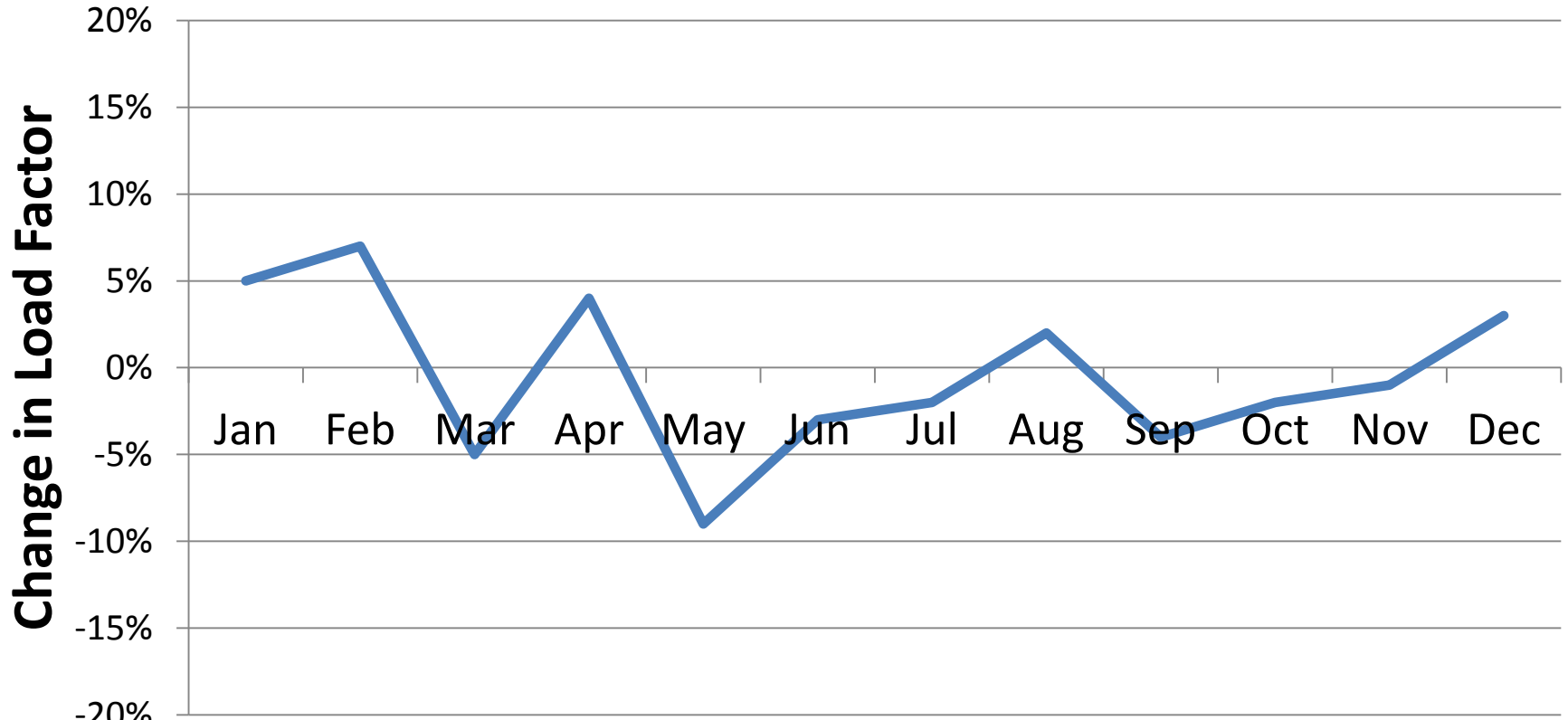
Average Summer Day Load Shape



Average Winter Day Load Shape



Change in Load Factor of HMM Homes



Net Annual Change in Load Factor = 0%

HMH Spawns New OBF Programs

- Four co-ops are moving ahead
 - Aiken Electric
 - Black River Electric
 - Santee Electric
 - York Electric
- One other S.C. co-op expected to launch its own OBF program
 - Lynches River

Could HMM Be Scaled Up?

- HMM homes were not selected randomly, so the results cannot be extrapolated across the state
- HMM targeted high energy use homes because these homes were more likely to need thousands of dollars of efficiency work
- We can compare the HMM homes to data from all the homes in S.C. co-ops by looking at appliance survey

Comparing HMH to General Population of Co-ops in S.C.

	HMH Homes	Appliance Survey Homes
Electricity is the primary heat source	100%	73%
Housing Type		
Site built	42%	68%
Manufactured home	58%	26%
Other	0%	6%
Average size, site built	1808 sq. ft.	1964 sq. ft.
Average size, manufactured homes	1783 sq. ft.	1403 sq. ft.

HMH vs Appliance Survey kWh/m

