

RESNET

Department of Energy Building America Residential Research Program

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February 28, 2005

PROGRAM GOAL

The Residential Integration program will develop cost effective, production ready energy efficiency and onsite/renewable power system solutions that will be evaluated in research houses, as production prototypes, and in subdivisions.

The system solutions developed by the program will reduce whole-house energy use in new homes by an average of 50% by 2012 and average of 90% by 2020 compared to the Building America Research Benchmark at net zero cash flow.

Schedule for Interim Annual Targets Associated with the Objective

E16

Climate Region	Target	2005	2006	2007	2008	2009	2010	2011	2012
Marine	30%	Phase 2	Phase 3						
	40%	Phase 1	Phase 2	Phase 3					
	50%		Phase 1		Phase 2		Phase 3		
	60%					Phase 1		Phase 2	
Hot Humid	30%	Phase 2	Phase 3						
	40%	Phase 1	Phase 2	Phase 3					
	50%			Phase 1		Phase 2		Phase 3	
	60%						Phase 1		Phase 2
Hot/Mixed Dry	30%	Phase 3							
	40%	Phase 2	Phase 3						
	50%			Phase 1		Phase 2		Phase 3	
	60%						Phase 1		Phase 2
Mixed Humid	30%	Phase 2	Phase 3						
	40%		Phase 1	Phase 2	Phase 3				
	50%				Phase 1		Phase 2		Phase 3
	60%							Phase 1	
Cold	30%	Phase 3							
	40%	Phase 1	Phase 2	Phase 3					
	50%				Phase 1		Phase 2		Phase 3
	60%							Phase 1	

E16

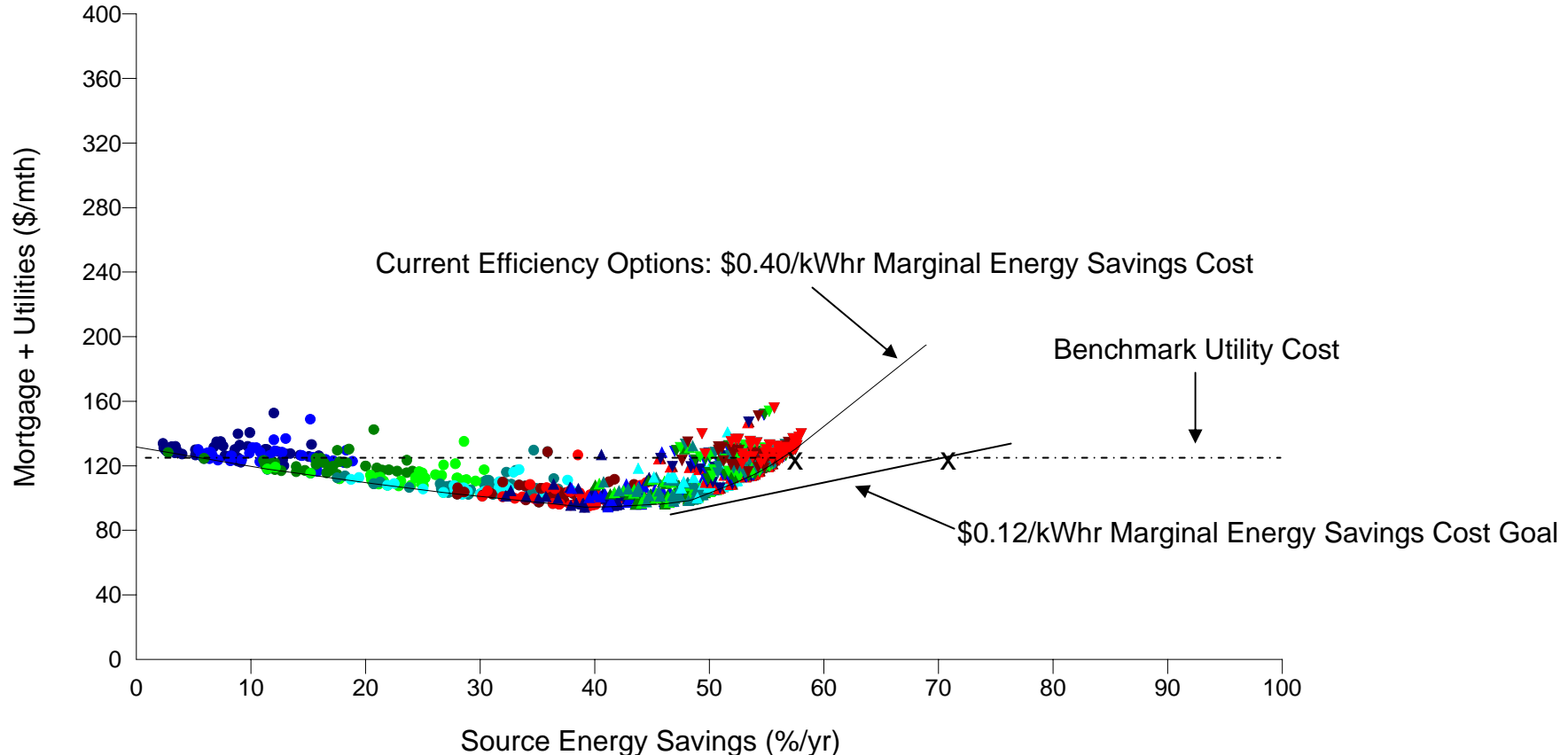
Is the use of milestone here consistent with the notion that milestones are quarterly, targets are annual, and objectives are multi-year, and goals are end-point?

EE, 1/10/2005

Interactions with Other BT Program Elements (continued)

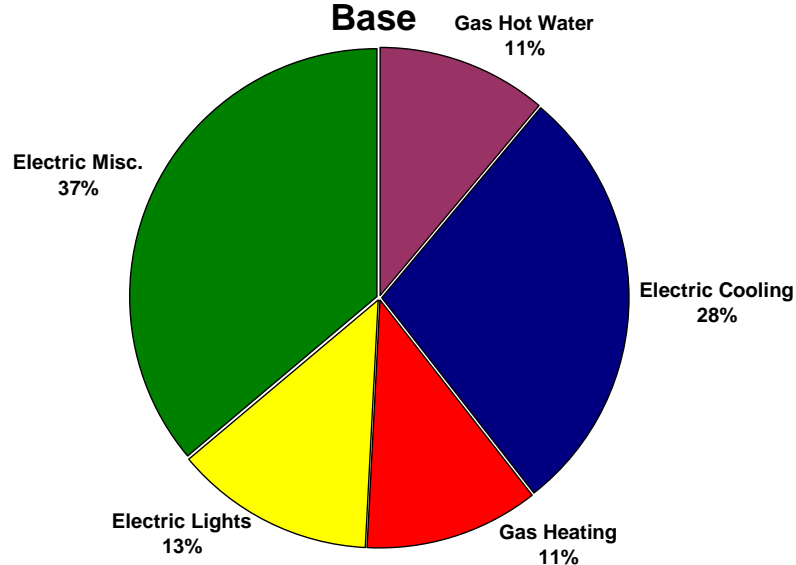
Inputs needed from other BT program elements

- **Needed by 2010: Additional residential component options that provide marginal energy savings costing less than \$0.12/kWh and that also effectively target projected loads at 50%+ whole house savings levels**

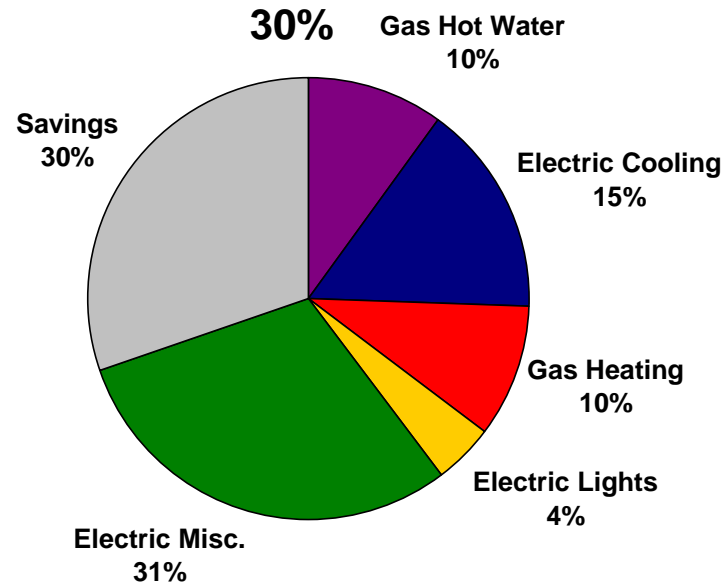


Outputs needed by other BT program elements: Projected hot humid climate residential energy savings needs as a function of savings level

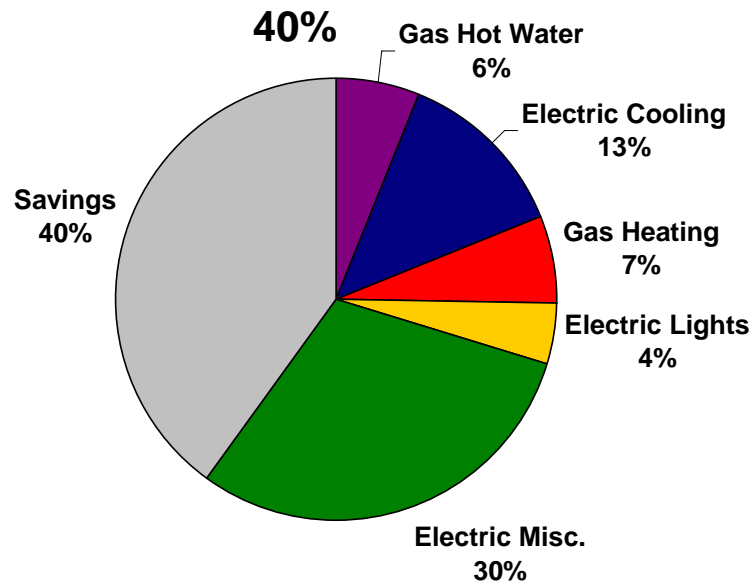
Base



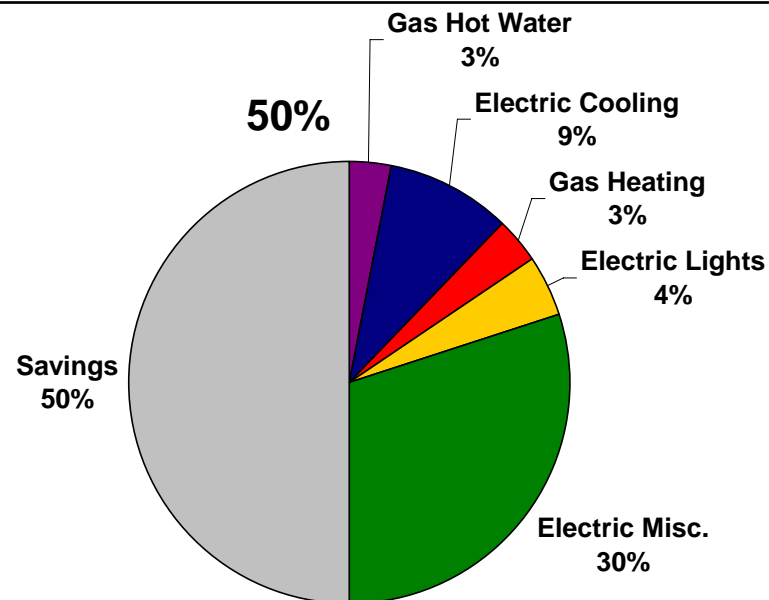
30%



40%



50%



CONGRESS BUILDING AMERICA

- Least cost designs
- Complete architectural drawing package
- Provide for volunteer training
- Provide on site technical support
- Develop ResCheck tool
- Education and Public Relations
 - Consumer education
 - Builder & trades out reach
 - Press events
 - Congress

CLIMATE VISION

TEXAS PILOT

- Focus on green residential construction
- State wide training
 - Target audience is full range of industry
 - Concentrate on 41 non-attainment counties
- Provides for local tech support
- Provides for DOE tech support
- Special incentive in San Antonio & Austin
 - 25% reduction of mortgage
 - \$150 to builders toward rating costs

INTERNATIONAL

