

# Summary of Residential New Homes Programs in the United States and Canada



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# Executive Summary

CEE's Residential New Homes Program Summary describes currently active voluntary programs for the construction of new homes that meet certain energy performance requirements. These new homes programs provide various guidelines for energy efficiency through a combination of measures, such as insulation, windows, ducts, heating and cooling equipment, lighting and appliances. Voluntary programs deliver residential buildings that are more energy efficient than homes built to the local building codes through either comprehensive performance-based approaches or prescriptive single end-use specifications.

New homes energy efficiency programs typically provide financial incentives to builders or consumers, as much as \$12,500 per home. New homes programs message and market to trade allies, raters, and homeowners about the efficiency as well as non-energy benefits through a variety of channels (i.e., newspapers, online, home shows, magazines, brochures, yard signs, POP materials, and local partners).

The 36 CEE members listed in this document offer programs with a variety of fuel types, predominantly electric and/or natural gas. With a collective budget totaling over \$80 million, the new homes industry represented in this Program Summary currently includes CEE members across 27 U.S. states and 4 provinces in Canada. Of the 40 programs documented, just over half were established within the past 5 years.

The majority of new homes programs rely on HERS raters for verification and REM/Rate for energy modeling. ENERGY STAR® for Homes is the most common platform for new homes programs, although many members develop additional components outside of EPA's specifications. Seven CEE members piloted Version 3.0 in 2011, and an additional 11 intend to incorporate the new specification into their programs for 2012.

The 40 CEE member programs represented in this document are presented based on a survey fielded in April and May 2011. Due to the fact that each CEE member uses different program development processes and schedules, this document aims to provide the best available snapshot of these programs at the date of its publication, and does not describe how they have evolved to date or how they are likely to change in the future.

## For More Information:

You may direct questions about individual programs to the contact person indicated in the Program Summary. We encourage comments on this document, particularly suggestions of information that would be useful to include in future versions. To offer such input or ask any questions, please contact Alice Rosenberg at [arosenberg@cee1.org](mailto:arosenberg@cee1.org).

# Overview of New Homes Programs\*

Organization	State/Prov.	BACKGROUND INFO			SPECIFICATIONS			PROGRAM INFORMATION		
		Fuel Type	Year Est.	Annual Budget	ENERGY STAR	Version 3.0	Other Specifications	Incentive	Program Verification	Energy Modeling
AEP Ohio	OH	Electric	2010	\$3,900,000	YES	---	Yes, various measures	\$450 - \$1,200	HERS raters	REM/Rate
Ameren Illinois	IL	Elec / Gas	2009	\$323,000	2.0, 2.5	Jan 2012	Must heat with fuel delivered by Ameren IL	\$450 - \$750	HERS raters	REM/Rate
Arizona Public Service	AZ	Electric	1996	\$2,800,000	2.0	2012	Mechanical fresh air ventilation and room pressure balance	\$400 - \$1,000	HERS raters	REM/Rate
Baltimore Gas and Electric	MD	Elec / Gas	2009	\$5,493,400 for 2009-2011	2.5, 3.0	2011	---	\$400 - \$1,600	HERS raters	REM/Rate
BC Hydro	BC	Electric	2006	\$2,500,000	NO	---	EnerGuide for New Homes	up to \$1,500	Certified energy advisors	HOT2000
Black Hills Energy	IA	Gas	1992	---	2.5	---	1. Thermal Bypass Checklist 2. Minimum one ENERGY STAR qualified product category	\$1,500 - \$5,000	---	---
Cape Light Compact	MA	Electric	2001	\$250,000	YES	---	Percent savings over MA User Defined Reference Home	\$750 - \$8,000 Free CFLs	HERS raters	REM/Rate
Cascade Natural Gas	WA, OR	Gas	2008	---	YES	---	---	\$350 - \$750 plus upgrades	---	---
Connecticut Light & Power	CT	Elec / Gas	1998	\$1,100,000 elec \$622,000 gas	2.0, 2.5	2012	ENERGY STAR equipment	\$250 - \$2,000 plus additional measures	HERS raters	REM/Rate
Efficiency New Brunswick	NB	All	2007	\$1,250,000	NO	---	Yes, various measures	\$1,500 - \$7,500	EnerGuide	HOT2000
Efficiency Nova Scotia	NS	All	2010	\$4,100,000	NO	---	---	\$3,000 - \$7,000	Independent delivery agents	HOT2000
Efficiency Vermont	VT	Elec / Other	2000	\$1,200,000	2.0, 2.5, 3.0	2011	Energy Code Plus	up to \$1,500+	HERS raters	REM/Rate
LG&E and KU	KT, VA	Elec / Gas	2008	\$1,100,000	2.0, 2.5, 3.0	2011	Rebates for advanced contractor-builder teams	\$1,200	HERS raters	REM/Rate
Long Island Power Authority	NY	Electric	2004	\$2,500,000	YES	---	---	up to \$12,500	HERS raters	REM/Rate
National Grid (New Hampshire)	NH	Elec / Gas	2007	\$141,913 elec \$79,355 gas	2.5	Jan 2012	---	\$4,750	HERS raters	REM/Rate Utility OTTER
National Grid (Massachusetts)	MA	Elec / Gas	1998	\$480,000 elec \$1,587,024 gas	2.0	---	Percent savings over MA User Defined Reference Home	\$750 - \$8,000 Free CFLs	HERS raters	REM/Rate
Northwest Energy Efficiency Alliance	ID, MT, WA, OR	Electric	2004	\$1,800,000 (without utilities)	YES	---	Prescriptive path	varies	HERS raters and other. HVAC contractors test their own systems.	REM/Rate
NSTAR	MA	Elec / Gas	1998	\$2,018,492 elec \$1,584,121 gas	2.0	---	Percent savings over MA User Defined Reference Home	\$750 - \$8,000 Free CFLs	HERS raters	REM/Rate BEACON
NYSERDA	NY	Elec / Gas Oil / Propane	2001	\$12,400,000	2.0, 2.5	Jan 2012	Min kWh savings requirement. Min HVAC equipment efficiency	up to \$12,500	HERS raters	REM/Rate Third party QA
NV Energy 1	NV	Electric	2008	\$1,700,000	2.0, 2.5	Jan 2012	HERS 70 or better is required.	\$0.30 per predicted kWh savings	Third party and QA/QC process required	REM/Rate
NV Energy 2	NV	Electric	2010	\$500,000	2.0, 2.5	Jan 2012	HERS 50 or better is required. 2-tiered program; incentives for shell measures & renewables	typically \$5,000 - \$7,000	Third party verification required	Energy Pro
Oncor	TX	Electric	2002	---	YES	---	---	---	HERS raters	REM/Rate
Ontario Power Authority	ON	Electric	2011	---	NO	---	(Waiting for ENERGY STAR specs to be finalized)	---	EnerGuide	HOT2000
Pacific Gas and Electric Company	CA	Elec / Gas	2006	---	---	---	Minimum 15 percent above California's Title 24 standards	Tiered, performance based structure	Title 24 through a CEPE. HERS raters	EnergyPro MICROPAS
Progress Energy Carolinas	NC, SC	Electric	2009	\$1,500,000	2.0, 2.5	Jan 2012	---	up to \$1,600	HERS raters AHRI Certificate	Only by third party
Public Service of New Hampshire	NH	Electric	2001	\$1,402,835 total for NH	2.0, 2.5	Jan 2012	Yes, various measures	\$500+	HERS raters	REM/Rate
Questar Gas Company	UT	Gas	2007	\$2,500,000	YES	---	Energy efficient equipment	varies	Raters and coordinated internal QA	REM/Rate
Sacramento Municipal Utility District	CA	Electric	2006	up to \$382,500	NO	---	More stringent than ENERGY STAR. Iterative and prescriptive options (including PV)	\$1,100 - \$3,000	Vendor for performance & EE measures; SMUD staff for verification	Energy Gauge MICROPAS 8
Salt River Project	AZ	Power / Water	1970's	\$2,700,000	NO	---	Three performance tiers	\$450 - \$1,150	HERS raters	REM/Rate
San Diego Gas & Electric	CA	Elec / Gas	2010	\$4,398,013 for 2010-2012	YES	---	Minimum 15 percent above California's Title 24 standards	Calculated based on modeled performance relative to Title 24 code	HERS raters	EnergyPro MICROPAS 8
Snohomish County PUD	WA	Electric	2008	\$130,000	YES	---	ENERGY STAR and utility specification for heating systems	\$20 - \$2,800	Utility verification	---
Southern California Edison	CA	Elec / Gas	1989	\$17,500,000	YES	---	Minimum 15 percent above California's Title 24 standards	Calculated based on several factors	HERS raters	EnergyPro MICROPAS
Southwest Gas (Arizona)	AZ	Gas	2007	\$950,000	2.0, 2.5	Jan 2012	---	\$225 plus incentives for additional measures	HERS raters	---
Southwest Gas (Nevada)	NV	Gas	2009	\$270,000	2.0, 2.5	Jan 2012	---	\$125 per eligible home	HERS raters	---
Tennessee Valley Authority	TN	Electric	2002	\$1,600,000	2.0	---	---	\$100 - \$800 per home \$100/adv. water heaters	HERS raters	REM/Rate
The United Illuminating Company	CT	Elec / Gas	1998	\$215,440	YES	---	---	\$250 - \$2,000+ plus additional measures	HERS raters	REM/Rate
Vectren Energy Delivery of Indiana	IN	Elec / Gas	---	\$113,500 incentives	2.0, 3.0	2011	Silver ENERGY STAR 2.0 Gold ENERGY STAR 2.0 Gray Water Heat Recovery	\$500 - \$750 plus additional measures	---	---
Vectren Energy Delivery of Ohio	OH	Gas	2009	\$52,500	2.0, 3.0	2011	Gold ENERGY STAR 2.0	\$750	---	---
Vermont Gas Systems	VT	Gas	2001	\$241,000	3.0	2011	Appliance bonus	\$600	HERS raters	Through Efficiency VT
Wisconsin Focus on Energy	WI	Elec / Gas	2001	---	NO	---	Yes, various measures	\$200 - \$1,500 plus additional measures	Consultants	REM/Rate
Xcel Energy (Colorado)	CO	Elec / Gas	2009	\$2,520,000	2.0	TBD	Energy analysis of plans, on-site consultation, detailed reports, ENERGY STAR certification	up to \$2,200	HERS raters	REM/Rate
Xcel Energy (Minnesota)	MN	Elec / Gas	1996	\$1,200,000	2.0	TBD	Free services for natural gas homes: HERS rating, ENERGY STAR and tax credit verification, onsite consulting	\$500+	YES	YES

\* Please see individual program entries for complete information and additional detail

# AEP Ohio

<b>ORGANIZATION DETAILS</b>	
Organization Name	AEP Ohio
Sponsor Type	Utility
Fuel Type	Electric programs
Service Territory	Approximately 1.3 million customers in Ohio
Website	www.aepohio.com
<b>PROGRAM BACKGROUND</b>	
Program Name	ENERGY STAR New Homes Program
Program Contact(s)	James R. Miller, Consumer Programs Coordinator 330-438-7755 jrmiller@aep.com
Program Website	<a href="https://aepohio.com/save/programs/NewHomesProgram/Default.aspx">https://aepohio.com/save/programs/NewHomesProgram/Default.aspx</a>
Year Established	2010
Target Audience	Builder, rater, consumer
Budget Cycle	Multi-year, current contract expires 12/31/2011
Budget	Approximately \$3.9M
General Program Goals	Energy savings through building science based residential new construction, primarily ENERGY STAR qualified homes
Specific Energy Savings Goals	2011 Savings Goals: 5100 MWh / 2.63 MW
Non-Energy Savings Goals	Customer satisfaction
Building Codes Requirements	Ohio currently uses IECC 2006. Update to IECC 2009 is anticipated.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes
Other Specifications	Other specifications may include set requirements for duct sealing, ENERGY STAR HVAC equipment, percentage of ENERGY STAR bulbs, and maximum building envelope air leakage.
Other Green Home Programs	No
Multi-family Program	No
Renewables	No
Program Coordination	Statewide in AEP Ohio's service territory
Utility Partnerships	AEP Ohio is partnering with Columbia Gas of Ohio in this program.
<b>PROGRAM COMPONENTS</b>	
Incentives	Incentives are paid to builders based on whole house performance (HERS rating). Amounts vary from \$450 to \$1,200 or more depending on performance level and the co-incentive paid by Columbia Gas of Ohio in shared service areas.
Financing	None
Training and Education	Training, especially ENERGY STAR compliance, for builders, raters, and contractors has been frequent and appropriate with additional efforts scheduled through 2011.
Marketing	Marketing efforts to date have been directed to builders and raters.
Program Qualification	Primarily performance based with some prescriptive measures. Requirements are more stringent than ENERGY STAR.
Program Verification	HERS rater
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	No
Cost-Benefit Analysis	Yes, standard tests, primarily TRC

# Ameren Illinois

ORGANIZATION DETAILS	
Organization Name	Ameren Illinois
Sponsor Type	Utility
Fuel Type	Both electric and natural gas
Service Territory	43,700 square miles of central & southern Illinois 1,200,000 electric customers, 840,000 natural gas customers
Website	www.ameren.com
PROGRAM BACKGROUND	
Program Name	ENERGY STAR New Homes Program
Program Contact(s)	Wade Morehead, Residential Programs Manager 309-740-7044 wade.morehead@csggrp.com
Program Website	www.actonenergy.com/for-my-home/residential-incentive-programs/energy-star-new-homes/
Year Established	2009
Target Audience	Both upstream and downstream
Budget Cycle	Annual
Budget	PY2011 budget: \$150k direct incentives (paid to builder); \$30k marketing; \$10k training; \$107k admin labor; \$26k other admin expense; \$323k total budget
General Program Goals	Market transformation: more ENERGY STAR builders, more efficient new homes; greater market penetration for ENERGY STAR homes.
Specific Energy Savings Goals	PY2010 savings goals: 9,216 therms; 400 MWh
Non-Energy Savings Goals	120 ENERGY STAR homes
Building Codes Requirements	IECC 2009
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Yes, currently Versions 2.0 and Version 2.5; adopting Version 3.0 January 1, 2012
Other Specifications	Must heat with fuel delivered by Ameren Illinois
Other Green Home Programs	None
Multi-family Program	Yes, but none to date
Renewables	Accepted
Program Coordination	Yes, informal coordination with local home builder associations.
Utility Partnerships	None
PROGRAM COMPONENTS	
Incentives	<u>Base Incentives:</u> Gas customer only: \$450 Gas & electric customer: \$750 Electric customer only: \$750  HERS Index 71-85: base incentive HERS Index 56-70: double base incentive HERS Index 55 or less: triple base incentive
Financing	None
Training and Education	ENERGY STAR Version 3.0 training for builders, raters, and HVAC contractors; builder education through HBA presentations
Marketing	Program brochures and literature; direct mail to prospective builders; HBA presentations; HERS rater luncheons; case studies of high-performing homes; Program Ally of the Quarter recognition; Builder of the Year and Project of the Year awards; home show booths; print and online ads; articles in HBA newsletters.
Program Qualification	Performance path only; requirements align with ENERGY STAR for New Homes
Program Verification	HERS raters
Energy Modeling	REM/Rate

<b>EVALUATION</b>	
Past Program Performance	PY2009: 17 homes completed; 1,768 therms; 7,552 kWh PY2010 (as of May 1, 2011): 61 homes completed; 6,032 therms; 91,104 kWh PY2011: begins June 1, 2011
Cost-Benefit Analysis	Program level TRC: 1.02
<b>OTHER</b>	
	Because this program has a primary focus on market transformation, there are no raters on staff. Program staff works with the rater community to help facilitate builder recruitment and retention. The incentives are used to help offset the costs of the rating and energy efficient upgrades.

## Arizona Public Service

<b>ORGANIZATION DETAILS</b>	
Organization Name	Arizona Public Service
Sponsor Type	Utility
Fuel Type	Electric programs
Service Territory	State of Arizona – 1.1 million customers
Website	aps.com
<b>PROGRAM BACKGROUND</b>	
Program Name	ENERGY STAR Homes
Program Contact(s)	Dresden Osterman, Program Coordinator 602-250-2924 dresden.osterman@aps.com
Program Website	Aps.com/newhomes
Year Established	Approximately 15 years established
Target Audience	Program is for builders, but marketing for both builder & consumer
Budget Cycle	One year
Budget	2011 - \$2.8M
General Program Goals	2011 – 2,500 homes
Specific Energy Savings Goals	2011 – 155,000 Lifetime MWh Savings
Non-Energy Savings Goals	
Building Codes Requirements	Current building codes vary by municipality
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, currently ENERGY STAR Version 2 – transitioning to Version 3 for 2012
Other Specifications	Mechanical fresh air ventilation & room pressure balancing
Other Green Home Programs	
Multi-family Program	
Renewables	
Program Coordination	
Utility Partnerships	Partnership with UNS Gas in northern AZ territory where both utilities exist.
<b>PROGRAM COMPONENTS</b>	
Incentives	\$400 – ENERGY STAR V2 \$1000 – HERS 70 (or less)
Financing	no

Training and Education	Building science training required for builder/trades to participate in program.
Marketing	Builder magazine publication, builder online presence, electronic marketing toolkit, mode home signage, television commercial, billboards, community outreach events, etc.
Program Qualification	Both prescriptive & performance. Require mechanical fresh air & room pressure balancing.
Program Verification	HERS Rater provides compliance information
Energy Modeling	REM/Rate software
<b>EVALUATION</b>	
Past Program Performance	
Cost-Benefit Analysis	

## Baltimore Gas and Electric

<b>ORGANIZATION DETAILS</b>	
Organization Name	Baltimore Gas and Electric
Sponsor Type	Utility
Fuel Type	Both
Service Territory	Central Maryland
Website	www.gbe.com
<b>PROGRAM BACKGROUND</b>	
Program Name	BGE Smart Energy Savers Program
Program Contact(s)	Heather Anderson, Product Manager 410-470-5898 Heather.Anderson@constellation.com
Program Website	www.bgesmartenergy.com
Year Established	June 1, 2009
Target Audience	Builder
Budget Cycle	Annual
Budget	2009-2011: \$5,493,400
General Program Goals	The BGE ENERGY STAR for New Homes Program seeks to accelerate the market penetration of homes in BGE's service territory that meet and exceed the Environmental Protection Agency (EPA) ENERGY STAR guidelines.
Specific Energy Savings Goals	2009-2011: Budget: \$5,493,400 Participation: 4,331 Total Energy Savings (MWh): 6,085
Non-Energy Savings Goals	
Building Codes Requirements	IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes – ENERGY STAR Version 2.5/3
Other Specifications	
Other Green Home Programs	N/A
Multi-family Program	N/A
Renewables	N/A

Program Coordination	N/A
Utility Partnerships	BGE is Gas and Electric
<b>PROGRAM COMPONENTS</b>	
Incentives	<p>Current BGE ENERGY STAR for New Homes Program (Homes permitted prior to 4/1/2011 &amp; completed by 7/1/2011)</p> <p>Tier 1 HERS Index of <math>\leq 85</math> \$400  Tier 2 HERS Index of <math>\leq 80</math> \$800  Tier 3 HERS Index of <math>\leq 75</math> \$1,000</p> <p>New BGE ENERGY STAR for New Homes Program with Version 3 Guidelines (Homes permitted after 1/1/2011)</p> <p>Tier 1 HERS Index <math>\leq 75</math> \$1,000  Tier 2 HERS Index <math>\leq 70</math> \$1,300  Tier 3 HERS Index <math>\leq 65</math> \$1,600</p>
Financing	
Training and Education	Extensive Builder, Rater and trade training provided throughout the lifecycle of the program
Marketing	Home Builders Association Sponsorships, Ads in builder publication and Google Ad Words
Program Qualification	Performance
Program Verification	HERS Rater
Energy Modeling	REM Rate
<b>EVALUATION</b>	
Past Program Performance	Case 9154 at Maryland PSC website: <a href="http://webapp.psc.state.md.us/Intranet/home.cfm">http://webapp.psc.state.md.us/Intranet/home.cfm</a>
Cost-Benefit Analysis	TRC. 2012-2014 Filing

# BC Hydro

<b>ORGANIZATION DETAILS</b>	
Organization Name	BC Hydro
Sponsor Type	Utility
Fuel Type	Electric
Service Territory	British Columbia, serving more than 1.4 residential households
Website	www.bchydro.com/pshome
<b>PROGRAM BACKGROUND</b>	
Program Name	Power Smart New Home Program
Program Contact(s)	Kari Reid, Program Manager 604-453-6530 kari.reid@bchydro.com
Program Website	www.bchydro.com/pshome
Year Established	2006
Target Audience	Primary target is builders and developers, secondary target is home buyers.
Budget Cycle	Annual
Budget	\$2.5 Million
General Program Goals	The Power Smart New Home (PSNH) Program will work with the home building industry and other key partners to support the advancement of building energy codes anticipated coming into effect at the end of 2012. PSNH will also work towards advancing home building construction past building energy codes with a goal of reaching near-net zero by 2020.
Specific Energy Savings Goals	4.2 GWh annually
Non-Energy Savings Goals	N/A
Building Codes Requirements	A new building code will be implemented in 2012, equivalent to EnerGuide 80.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	No, ENERGY STAR for New Homes is currently under development in Canada, with plans for a pilot program in Summer 2011.
Other Specifications	EnerGuide for New Homes is used to assess the homes' energy performance. The EnerGuide for New Homes program is based on a scale of 0-100 with 100 being nearly equivalent to net-zero. The Power Smart program encourages and incentives builders and developers to reach EnerGuide 80.
Other Green Home Programs	N/A
Multi-family Program	Home performance package is available for Single Family Dwellings (SFD) and Town/Row houses. Additionally, an in-suite package is available for the installation of ENERGY STAR lighting, appliances and ventilation in Multi-Unit Residential Buildings (MURBs).
Renewables	N/A
Program Coordination	N/A
Utility Partnerships	The program covers all other fuel heating types.
<b>PROGRAM COMPONENTS</b>	
Incentives	Builders and developers participating in the Home Performance program are eligible for \$1500 with every home that achieves EnerGuide 80 or higher. An in-suite ENERGY STAR package is available up to \$200 per suite based on the type of ENERGY STAR products installed.
Financing	No
Training and Education	Efforts are spent educating builders and developers one-on-one about energy efficient building and technologies through a program advisor.
Marketing	Typically once a year, two separate marketing platforms are in market, one for targets builders and developers and one for home buyers.
Program Qualification	Home performance path requires the builder to meet an EnerGuide for New Homes rating of 80 or higher.

Program Verification	Certified energy advisors perform the pre- and post-build assessment including the blower door test.
Energy Modeling	HOT2000
<b>EVALUATION</b>	
Past Program Performance	Program evaluation is scheduled for 2012.
Cost-Benefit Analysis	Yes, program has a TRC of 1.6, and Utility Cost of 4.2.

## Black Hills Energy

<b>ORGANIZATION DETAILS</b>	
Organization Name	Black Hills Energy
Sponsor Type	Utility
Fuel Type	Natural gas (Iowa only)
Service Territory	Iowa
Website	www.bhehowto.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Residential New Construction Program.
Program Contact(s)	James Dillon, Manager of Energy Efficiency 515-343-2021 jim.dillon@blackhillscorp.com
Program Website	<a href="http://www.blackhillsenergy.com/services/programs/builders-newconstr-ia.php">http://www.blackhillsenergy.com/services/programs/builders-newconstr-ia.php</a> <a href="http://www.blackhillsenergy.com/services/programs/documents/ia_11f_res_nc.pdf">http://www.blackhillsenergy.com/services/programs/documents/ia_11f_res_nc.pdf</a>
Year Established	1992
Target Audience	Trade allies, builders raters
Budget Cycle	Calendar year
Budget	
General Program Goals	
Specific Energy Savings Goals	
Non-Energy Savings Goals	
Building Codes Requirements	IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	ENERGY STAR Version 2.5 effective 1/1/2011
Other Specifications	A Black Hills Energy Residential New Construction Program home does not automatically qualify for the ENERGY STAR label. In addition to meeting the Black Hills Energy prescriptive standard, there are two additional requirements to obtain the label: 1) Complete a Thermal Bypass Inspection Checklist requiring two site visits (one prior to installation of the drywall and a final inspection - the inspection done through the Black Hills Energy program will satisfy the final inspection requirements) and 2) include at least one ENERGY STAR qualified product category - heating or cooling equipment OR windows OR five or more ENERGY STAR qualified light fixtures, appliances, ceiling fans equipped with lighting fixtures, and/or ventilation fans (heating equipment and windows that meet the prescriptive standard above will qualify for the ENERGY STAR label.
Other Green Home Programs	
Multi-family Program	
Renewables	
Program Coordination	Homeowners who purchase a qualifying home along with a high-efficiency clothes washer and dishwasher may receive up to \$120
Utility Partnerships	
<b>PROGRAM COMPONENTS</b>	

Incentives	\$1,500 to \$5,000 per home for builders
Financing	
Training and Education	
Marketing	
Program Qualification	Space and water heating systems installed must use natural gas and must meet the minimum standards established for the other Black Hills Energy programs ( $\geq 92\%$ AFUE for furnaces and EF of 0.67 or higher for water heaters, depending on size). In addition, builders must use one of the following options to qualify a home for the program: 1. Follow Black Hills Energy's recommended prescriptive standard and have a BOP1 inspection performed (see table below). 2. Receive an ENERGY STAR-label by obtaining a qualifying tiered Home Energy Rating (HERS) index score for your climate zone.
Program Verification	
Energy Modeling	
<b>EVALUATION</b>	
Past Program Performance	
Cost-Benefit Analysis	

# Cape Light Compact

<b>ORGANIZATION DETAILS</b>	
Organization Name	Cape Light Compact
Sponsor Type	Energy Efficiency Service Provider
Fuel Type	Electric
Service Territory	Cape Cod and Martha's Vineyard (over 170,000), Massachusetts
Website	www.capelightcompact.org
<b>PROGRAM BACKGROUND</b>	
Program Name	New Homes with ENERGY STAR
Program Contact(s)	Margaret Song 508-375-6843 msong@capelightcompact.org
Program Website	www.masssave.com/residential/building-a-house-or-addition/
Year Established	2001
Target Audience	Builders and consumers
Budget Cycle	Annual
Budget	Electric: \$250,000
General Program Goals	Energy efficient new homes and additions in Massachusetts
Specific Energy Savings Goals	Electric: 300,000 kWh
Non-Energy Savings Goals	Electric: 56 units
Building Codes Requirements	IECC 2009 and Stretch Code
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Today the program has a number of projects that will qualify for ENERGY STAR Version 2. In the future, the Program will base energy performance on a Massachusetts defined standard and encourage ENERGY STAR qualification for all participants.
Other Specifications	Percent Savings over Massachusetts User Defined Reference Home
Other Green Home Programs	Major Renovations – Additions over 500 sq ft
Multi-family Program	Multi-Family incentives are offered for home units permitted under the residential use group.
Renewables	The Massachusetts New Homes with ENERGY STAR program coordinates with the Massachusetts Clean Energy Center to educate participants on renewable energy and available grants.
Program Coordination	The Massachusetts New Homes with ENERGY STAR program is coordinated on a statewide level by the Joint Management Committee (JMC). The JMC is comprised of several utility companies and energy efficiency service providers in Massachusetts including, Berkshire Gas, Cape Light Compact, Columbia Gas of Massachusetts, National Grid Gas & Electric, New England Gas, NSTAR Gas and Electric and Western Massachusetts Electric Company.
Utility Partnerships	Savings methodology split amongst Electric and Gas Sponsors based on territory and fuel type.
<b>PROGRAM COMPONENTS</b>	
Incentives	Builder incentives of \$750 to \$8,000 per home or unit are available based on the building type and overall energy performance of the project. Free CFLs for all hard wired fixtures are provided through the Program. The Program also coordinates the distribution incentives from other programs for high efficiency heating and cooling equipment.
Financing	There are currently no special financing products available for energy efficient new construction in Massachusetts.
Training and Education	The Program provides ongoing training for prospective program participants and technical trainings on relevant building science topics throughout the year. The JMC is an accredited, AIA continuing education provider.

Marketing	The Program primarily markets to builders and other market actors including architects and subcontractors who influence the specifications of new homes projects. The Program supplements its broad one to one and one to many outreach efforts with participation at key industry events and an online marketing campaign.
Program Qualification	The Program requires homes to adhere to the Performance Path and percent of savings incentives are based on a percent of savings over the Massachusetts User Defined Reference Home. Three Tier Levels are offered based on the percent of savings achieved. The Program also offers free CFLs, a CFL installation incentive per bulb verified by the HERs Rater, and pays rater incentives based on tier level achieved. The Program offers high efficiency heating and cooling equipment rebates in conjunction with Tier incentives. Low Income homes are eligible for a \$100 refrigerator/dishwasher combination incentive.
Program Verification	HERS Raters perform all third party testing in the field.
Energy Modeling	REM/Rate is used as modeling software.
<b>EVALUATION</b>	
Past Program Performance	The Program performs evaluations on annual basis and can be made available.
Cost-Benefit Analysis	The Program is tested for cost effectiveness on an annual basis.

## Cascade Natural Gas

<b>ORGANIZATION DETAILS</b>	
Organization Name	Cascade Natural Gas
Sponsor Type	Utility
Fuel Type	Natural Gas
Service Territory	Washington and Oregon
Website	www.cngc.com
<b>PROGRAM BACKGROUND</b>	
Program Name	
Program Contact(s)	Allison Spector, Conservation Manager 360-788-2356 allison.spector@cngc.com
Program Website	www.cngc.com/conservation
Year Established	Program expanded in 2008 although a limited program for furnaces and water heaters / low income weatherization was offered prior to this date
Target Audience	We are a rebate program that incentivizes for tariff approved energy efficiency measures including the construction of new ENERGY STAR and ENERGY STAR Plus homes. We have a robust trade ally program and provide support to TA builders in their energy efficiency efforts.
Budget Cycle	Annual
Budget	
General Program Goals	New Homes efforts were designed to encourage the construction of high efficiency ENERGY STAR gas homes within CNGC's service territory through a rebate incentive program.
Specific Energy Savings Goals	
Non-Energy Savings Goals	
Building Codes Requirements	ENERGY STAR qualified, ENERGY STAR Plus, or individual tariff approved measures above WA code for new homes.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Supports ENERGY STAR and ENERGY STAR Plus, although no formal partnership arrangement.
Other Specifications	

Other Green Home Programs	Members of several Built Green programs through Building Industry Associations in Whatcom County, Skagit County, Tri-Cities, Walla Walla and the Central Washington HBA – these memberships help us to stay in tune with the needs of trade allies interested in responsible green buildings and help keep us informed of new advancements.
Multi-family Program	
Renewables	None
Program Coordination	See answer to “Other Green Home Programs”
Utility Partnerships	We have partnered with other energy providers in our service territory on various incentive offers as well as for some public events like trade shows. We believe it is imperative to conserve fuel, and use it responsibly whether that is our natural gas, or alternate fuel sources.

## PROGRAM COMPONENTS

Incentives	<p><u>Washington:</u>  New Homes:  ENERGY STAR Certified Home NWBOP 1 standard : \$350 (Builder)  ENERGY STAR Plus Certified Home : \$750 (Builder)</p> <p>Whole home package upgrades for ENERGY STAR:  *Premium High-Efficiency Natural Gas Furnace – 95% AFUE or &gt; : \$150 (Builder)  *High-Efficiency Natural Gas Hearth – 80% AFUE or &gt; : \$70 (Builder)</p> <p>New &amp; Existing Homes:  High-Efficiency Natural Gas Furnace – 90% AFUE or &gt; :\$150 (builders/homeowners)  High-Efficiency Natural Gas Hearth – 80% AFUE or &gt; :\$70 (builders/homeowners)  Conventional Natural Gas Water heater .62 EF or &gt; : \$25 (homeowner)  High-Efficiency Combination Domestic Hot Water and Hydronic Space heating System using pre-approved Tankless Water Heater – 90% AFUE or &gt; : \$800 (Builder/homeowner)</p> <p><u>Oregon:</u>  All our incentives through Oregon are offered through the Energy Trust of Oregon.</p>
Financing	
Training and Education	Some training funds available to builder trade allies.
Marketing	Customer communications via bill insert as well as sponsorships for community events and some external media marketing utilized.
Program Qualification	All our residential incentives follow the prescriptive path noted above. Some of them are equivalent to the ENERGY STAR requirements for those specific incentives. See <a href="http://www.cngc.com/conservation/conservation_residential_washington.asp">http://www.cngc.com/conservation/conservation_residential_washington.asp</a> for the Washington Incentives we offer. All Oregon incentives are offered through the Energy Trust of Oregon: the information can be reached through <a href="http://www.cngc.com/conservation">www.cngc.com/conservation</a> or at: <a href="http://energytrust.org">energytrust.org</a>
Program Verification	
Energy Modeling	
<b>EVALUATION</b>	
Past Program Performance	
Cost-Benefit Analysis	Programs are assessed against Total Resource Cost and Utility Cost tests.

# Connecticut Light & Power

<b>ORGANIZATION DETAILS</b>	
Organization Name	Connecticut Light & Power (CL&P) (Yankee Gas for natural gas)
Sponsor Type	Electric and Natural Gas Utilities
Fuel Type	Both (ENERGY STAR Homes is Fuel Neutral)
Service Territory	1.1 Million and serves 80% of Connecticut
Website	www.cl-p.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Residential New Construction Program
Program Contact(s)	Enoch Lenge, Program Administrator 860-665-5369 lengeee@nu.com
Program Website	www.cl-p.com/Home/SaveEnergy/Rebates/NewConstruction.aspx
Year Established	1998
Target Audience	Both, builders and homebuyers/owners
Budget Cycle	Annual
Budget	Electric budget \$1.1 million, Natural gas budget \$622,000
General Program Goals	Reduce the energy use and peak demand in new housing. Increase builder and consumer awareness and understanding of the benefits of energy-efficient building practices, and to effect permanent market movement to more energy-efficient residential new construction in the state of Connecticut.
Specific Energy Savings Goals	2011 Electric Goals: kW Reduction goal 523.1 Annual kWh savings goal 2,175,436 Lifetime kWh savings goal 27,582,507 2011 Natural Gas Goals: Annual ccf savings goal 68,967 Lifetime ccf savings goal 1,724,175
Non-Energy Savings Goals	609 homes participate/completed in 2011 Residential New Construction Program. Introducing ENERGY STAR Version 3.0 and program focus will move towards high performing "zero energy" homes
Building Codes Requirements	IECC 2006
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, The Residential New Construction Program at CL&P focuses primarily on ENERGY STAR Certified Homes. We are currently following the same timeline as the EPA and will be introducing Version 2.5 and 3.0 respectively over the next year.
Other Specifications	Program Measures for participants to receive an incentive on are ENERGY STAR Certification, Insulation & Air Sealing, Geothermal Heating and Cooling, ENERGY STAR HVAC equipment (AC, Heat Pumps, Ductless Split Heat Pumps) ENERGY STAR Hot Water Heaters
Other Green Home Programs	None
Multi-family Program	Multi-family projects participate in the ENERGY STAR program and are also analyzed on a custom basis for additional energy savings measures that will qualify for an incentive.
Renewables	Yes, part of ENERGY STAR Certification, Solar PV and Solar Hot Water affects energy savings and HERS Score
Program Coordination	Statewide
Utility Partnerships	Any fuel type can participate in our program
<b>PROGRAM COMPONENTS</b>	

Incentives	Builder/Homeowner applicant can receive: ENERGY STAR Certification: \$500 to \$2,000+ based on HERS index, Insulation & Air Sealing: \$0.50 per sq/ft, Geothermal: \$500 per ton and \$1,500 per location, ENERGY STAR HVAC equipment: (AC, heat pumps, ductless heat pumps) \$250 and additional \$500 for Quality Installation Verification, ENERGY STAR Hot Water Heaters: Natural Gas \$300 and Heat Pump Water Heaters \$400
Financing	None
Training and Education	ENERGY STAR Version 2.5 and 3.0 Training, hosting HERS rater certification training
Marketing	Program rollout to HERS raters, builders, contractors. Home Builders Association sponsor, marketing publications.
Program Qualification	Our program qualifications follow the ENERGY STAR performance path or prescriptive path.
Program Verification	HERS rater are required for all ENERGY STAR Certified homes
Energy Modeling	RESNET's REM/Rate Software with CL&P User Defined Reference Home.
<b>EVALUATION</b>	
Past Program Performance	
Cost-Benefit Analysis	

# Efficiency New Brunswick

ORGANIZATION DETAILS	
Organization Name	Efficiency New Brunswick
Sponsor Type	Crown Corporation administering energy efficiency programs on behalf of the Province of New Brunswick
Fuel Type	The program discourages the use of electric resistance heating by offering incentives for high efficiency alternatives.
Service Territory	The entire province of New Brunswick (population 750,000; 333,000 dwellings)
Website	<a href="http://www.efficiencynb.ca">www.efficiencynb.ca</a> (English) / <a href="http://www.efficacitenb.ca">www.efficacitenb.ca</a> (Français)
PROGRAM BACKGROUND	
Program Name	Residential Energy Efficiency Program – New Construction
Program Contact(s)	Hector Doiron, Program Manager 506-866-0551 <a href="mailto:Hector.doiron@gnb.ca">Hector.doiron@gnb.ca</a>
Program Website	<a href="http://www.efficiencynb.ca/residential/reep-newhomes.html">http://www.efficiencynb.ca/residential/reep-newhomes.html</a> (English)
Year Established	2007 (revised 2011)
Target Audience	Both builders and buyers of new homes and multi-unit buildings are eligible to participate in this program.
Budget Cycle	Annual with multi-year commitment.
Budget	For fiscal year 2010-11, the budget was tagged at \$1.75M. Due to recent program revisions that require achieving higher efficiency standards, the budget amount for fiscal 2011-12 has been reduced to \$1.25M. The reductions reflect the expectation of a diminished uptake due to more stringent participation requirements.
General Program Goals	Encourage the construction of highly efficient homes and apartments, with a target of at least 20% of new construction in the province meeting program requirements. 2011 program revisions have introduced higher efficiency standards, and increased incentives for the construction of Net Zero energy homes/buildings.
Specific Energy Savings Goals	As per the Climate Change Action Plan adopted by the provincial government in 2007, the program seeks to reduce electrical energy consumption by encouraging the construction of energy efficient residential buildings and discouraging the installation of electric resistance heating as the primary heat source.
Non-Energy Savings Goals	Helping builders & homeowners to make Energy Efficiency related decisions will provide long term financial savings, increase occupant comfort and the re-sale value of the home, and lessen the environmental impact by reducing the energy use.
Building Codes Requirements	There is no Building Code requirement for Energy Efficiency in NB at the present time. We are working with the Canadian Commission on Building and Fire Codes to establish the code requirements to be implemented in 2012.
PROGRAM DESCRIPTION	
ENERGY STAR Partner	No – the ENERGY STAR program for houses is not available in NB and does not meet our minimum efficiency targets or program requirements (while we do require ENERGY STAR for windows and HVAC, some of our minimum building envelope requirements are higher than those specified in Version 3)
Other Specifications	See Appendix in <a href="#">Energy Efficiency Specifications</a>
Other Green Home Programs	We have a retrofit program to address upgrades to existing homes and multi-unit buildings. The programs work in tandem; newly constructed homes that could have qualified under the New Construction program are not eligible for incentives through the retrofit program for Existing Buildings.
Multi-family Program	Our programs are designed for both homes and multi-unit buildings; there is no separate program (Efficiency NB is the only province in Canada to include multi-unit buildings in both new construction and retrofit programs).

Renewables	<p>Building owners must first meet building envelope and HVAC requirements to be eligible to participate in the incentive program. Once initial requirements are met, homeowners can receive increased incentives for the following renewable energy systems:</p> <p>Solar Domestic Hot Water (SDHW) systems meeting the CSA F379 – <i>Packaged Solar Domestic Hot Water Systems</i> standard and a minimum net solar energy contribution of 7.0GJ per year</p> <p>Geothermal heating systems meeting ENERGY STAR standards</p> <p>Alternative energy sources such as solar and wind, used in achieving the Net Zero Energy Rating</p>															
Program Coordination	Efficiency NB is a Crown Corporation of the Province of New Brunswick. The program is offered to the 330,000+ home and building owners in the province.															
Utility Partnerships	The program is global in scope and incents all heating systems meeting the requirements in the guidelines. Our program is guided by the <i>Climate Change Action Plan</i> of the Government of New Brunswick which encourages an off-electricity heating strategy for residential buildings that will include the use of low-Green House Gas (GHG) technologies and eliminate the installation of new electric baseboards and electric resistance heating systems.															
<b>PROGRAM COMPONENTS</b>																
Incentives	<table border="1"> <thead> <tr> <th>Incentive</th> <th>Amount</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Efficiency Incentive</td> <td>\$1,500</td> <td>For homes built to meet the <i>Energy Efficiency Specifications</i> or that achieves an <i>EnerGuide</i> rating of 83 or higher.</td> </tr> <tr> <td>Solar Domestic Hot Water (SDHW) *</td> <td>\$2,500</td> <td>For homes that qualify for the Efficiency Incentive and add Solar Domestic Hot Water (SDHW) systems.</td> </tr> <tr> <td>Geothermal*</td> <td>\$5,000</td> <td>For homes that qualify for the Efficiency Incentive and add qualifying Geothermal space heating and hot water systems.</td> </tr> <tr> <td>Net Zero</td> <td>\$7,500</td> <td>For homes that have been pre-qualified by Efficiency NB and designed to <i>Net Zero</i> performance standards.</td> </tr> </tbody> </table>	Incentive	Amount	Description	Efficiency Incentive	\$1,500	For homes built to meet the <i>Energy Efficiency Specifications</i> or that achieves an <i>EnerGuide</i> rating of 83 or higher.	Solar Domestic Hot Water (SDHW) *	\$2,500	For homes that qualify for the Efficiency Incentive and add Solar Domestic Hot Water (SDHW) systems.	Geothermal*	\$5,000	For homes that qualify for the Efficiency Incentive and add qualifying Geothermal space heating and hot water systems.	Net Zero	\$7,500	For homes that have been pre-qualified by Efficiency NB and designed to <i>Net Zero</i> performance standards.
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Financing	N/A															
Training and Education	<p>Part of Efficiency NB's mandate is to encourage the advancement of the Energy Efficiency Industry in NB. As such, we offer a wide array of education and training opportunities such as:</p> <ul style="list-style-type: none"> <li>• Administrative and technical support to Energy Advisors (who perform energy assessments for program eligibility)</li> <li>• Training workshops for builders on Energy Efficient New Home Construction</li> <li>• A Retail Marketing Campaign to educate building supply dealers on energy efficient products</li> <li>• An online Resource Centre offering advice on Best Practices in New Home construction, including Webinars derived from our TV Series: Build it Better</li> <li>• Attending Home and Trade Shows and to liaise with homeowners, contractors and service providers</li> <li>• Partnering with training institutes such as community colleges and carpenter's training centres to offer presentations to future trades persons</li> </ul>															
Marketing	The program is marketed to builders & homeowners in various manners: home shows, website, Homebuilders Association's meeting, traditional media (radio, newspaper, etc...). The five New Homes Service Providers also do marketing to increase the uptake of the program.															
Program Qualification	Participants have the option to build using our prescriptive <i>Energy Efficiency Specifications</i> or to build to a rating of 83 or higher on the <i>EnerGuide</i> scale. Both the prescriptive and performance paths are more stringent than those required by ENERGY STAR. Efficiency NB's program requirement of <i>EnerGuide</i> 83 result in a															

	home that is 25% more efficient than a home built to the ENERGY STAR standards (EnerGuide 80).
Program Verification	Efficiency NB has signed service contracts with Natural Resources Canada (NRCAN) licensed EnerGuide Rating Service Providers (SP's) to offer energy assessments and issue EnerGuide Ratings to program participants. The SPs complete and submit Application Forms on behalf of eligible home or building owners.
Energy Modeling	EnerGuide for Houses (HOT2000 version 10.51)
<b>EVALUATION</b>	
Past Program Performance	The New Homes Program was created in 2007. During its first year, 4% of new housing stock completed energy evaluations. After 4 years of program operation, by 2010 the percentage of new houses completing energy evaluations rose to 35%. The significant increase in uptake prompted program revisions that came into effect on April 1 <sup>st</sup> , 2011, increasing minimum requirements from EnerGuide 80 to EnerGuide 83 (equivalent to a 25% reduction in energy consumption for space and water heating).
Cost-Benefit Analysis	Yes.
<b>OTHER</b>	
	Comment: It is imperative to have the professional builders take ownership of the Energy Efficiency file to be able to move things forward...

# Efficiency Nova Scotia

<b>ORGANIZATION DETAILS</b>	
Organization Name	Efficiency Nova Scotia
Sponsor Type	Independent Energy Efficiency Corporation
Fuel Type	All Fuels
Service Territory	The entire province of Nova Scotia (population of just under one million)
Website	www.efficiencyns.ca
<b>PROGRAM BACKGROUND</b>	
Program Name	Performance Plus
Program Contact(s)	Josh McLean, Program Manager 902-470-3541 jmclean@efficiencyns.ca
Program Website	www.efficiencyns.ca/for_homes/energy_savings_programs/performanceplus/
Year Established	Efficiency Nova Scotia was established in 2010. However, the Provincial government has had incentive programs for new construction for years.
Target Audience	All new construction homes in the province (larger builders to individual homeowners building their own home)
Budget Cycle	At this time it is annual to biannual
Budget	We get two sources of funding for this program. One is from the main electrical utility (Nova Scotia Power), as there is an energy efficiency program charge on everyone's electricity bills. They are providing approximately \$1.5 M for electricity related savings in this program. The Provincial government is adding more money to the mix (some to other fuel homes, and some to all homes regardless of fuel type). The budget from the Province is approximately \$2.6 M, for a grand total of \$4.1M. Most of this is for incentives for energy efficiency, with much of the remainder going towards subsidizing the energy auditing costs for each home.
General Program Goals	Using the EnerGuide for Houses rating system (0-100), we are encouraging homes to go well above the minimum standard of 80 in Nova Scotia.
Specific Energy Savings Goals	On the electricity side of things, the target is approximately 2.5 GWh.
Non-Energy Savings Goals	Making new houses more energy efficient from the start will lead to financial benefits to the homeowner (lower energy savings), increased home comfort and environmental benefits (reduced energy use).
Building Codes Requirements	Every new home in Nova Scotia needs to be the equivalent of an EnerGuide 80 score. You can do this by going through the program and having a home energy audit (which allows you also to take advantage of incentives), or use a prescriptive list of energy efficiency standards.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Sort of. We use the EnerGuide for Houses rating system to model the house as a whole. We do however, have specific heating system incentives, and most of those must be Energy Star rated (the ones that can have that certification).
Other Specifications	N/A
Other Green Home Programs	We have a variety of other programs for existing homes, and appliances in general. However, Performance Plus is the program for new homes.
Multi-family Program	Not for new construction, but yes for existing construction.
Renewables	Specific rebates for solar water and air heating, and geothermal heating will help increase the home's score, and thus provide access to additional rebates. Nothing for PV or wind at this time.
Program Coordination	Efficiency Nova Scotia runs the program. There are delivery agents across Nova Scotia who perform the energy audits on the house plans and on the completed home.
Utility Partnerships	This program is for all homes (all fuels). NS Power provides funds that would go towards increasing energy efficiency in electrically heated homes only.
<b>PROGRAM COMPONENTS</b>	

Incentives	<p>1. Based on the EnerGuide Score (0-100). If you achieve and 83 or 84 you get \$3,000; 85, 86, or 87 you get \$5,000, and 88 or higher gets you \$7,000.</p> <p>2. Additional incentives for solar water heating - \$1,000 if installed and \$200 if home is "solar ready"</p> <p>3. In addition, there are specific rebates for homes with electric heat (space and/or dhw). The list includes air source heat pumps, geothermal heat pumps, solar water heating, drain water heat recovery, electric thermal storage heaters, and efficient lighting</p>
Financing	Not available
Training and Education	General program training and support is provided to the delivery agents.
Marketing	We market this program to builders and individual homeowners in a number of ways: home shows, conferences, seminars, website, traditional media (newspaper, etc). Also, the Nova Scotia Home Builders Association is one of our delivery agents for the program and is a great supporter of the program and helps market the program to its membership.
Program Qualification	To get the rebates you need to get the house tested using the EnerGuide for Houses rating system.
Program Verification	Delivery agents have auditors that provide independent advice to builders and new homeowners. Efficiency Nova Scotia has its programs evaluated each year by a third party consultant.
Energy Modeling	EnerGuide for Houses (Hot 2000)
<b>EVALUATION</b>	
Past Program Performance	The program was deemed to have relatively high levels of free ridership, so we are reviewing ways to reduce this (as well as the overall evaluation methodology).
Cost-Benefit Analysis	Yes

## Efficiency Vermont

<b>ORGANIZATION DETAILS</b>	
Organization Name	Efficiency Vermont
Sponsor Type	Energy Efficiency Utility
Fuel Type	Primarily electric-based programs, with several heating and process fuel conservation initiatives (all fuels except natural gas)
Service Territory	Vermont
Website	www.efficiencyvermont.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Vermont ENERGY STAR Homes and Energy Code Plus
Program Contact(s)	Chris Gordon 888-921-5990 cgordon@veic.org
Program Website	www.efficiencyvermont.com/vesh
Year Established	2000
Target Audience	Primarily upstream builder focus, with additional outreach to consumers
Budget Cycle	Three-year budgets and goals, broken into annual budgets
Budget	\$1.2 million per year
General Program Goals	Reduce energy load associated with construction of new homes Promote market transformation Maintain high level of market penetration of ENERGY STAR HomesSupport builders in meeting Vermont energy code
Specific Energy Savings Goals	600 MWh/yr
Non-Energy Savings Goals	Market Transformation; reduce lost opportunities
Building Codes Requirements	Vermont Residential Building Energy Standard (adapted from 2009 IECC)

<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, Version 2.0, Version 2.5, Version 3.0
Other Specifications	Efficiency Vermont began offering an “Energy Code Plus” level of service starting in 2011 (base tier below ENERGY STAR Version 3)
Other Green Home Programs	VEIC (the organization that administers Efficiency Vermont programs) also provides third party verification services for LEED for Homes, National Green Building Standard, and Passive House.
Multi-family Program	Efficiency Vermont offers ENERGY STAR verification services for multi-family
Renewables	No specific incentives for renewables. HERS-based incentives are calculated excluding renewables.
Program Coordination	Efficiency Vermont coordinates with Vermont Gas Systems in program delivery.
Utility Partnerships	Efficiency Vermont partners with Vermont Gas Systems in offering Vermont ENERGY STAR Homes.
<b>PROGRAM COMPONENTS</b>	
Incentives	Up to \$1,500 incentive based on HERS index; \$200 high efficiency appliance bonus Energy Rating Provided at no cost to enrollee Energy Code verification EPACT Tax credit verification
Financing	None provided
Training and Education	Training and education provided to builders, architects, and subcontractors involved in the building trades
Marketing	Efficiency Vermont promotes Vermont ENERGY STAR Homes to builders and customers through marketing materials, website, advertising, and home shows.
Program Qualification	Performance path for both ENERGY STAR and Energy Code Plus.
Program Verification	HERS Rater. Efficiency Vermont performs HERS ratings in-house at no cost to enrollees.
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	The Vermont Department of Public Service periodically conducts market assessments to determine baseline levels of energy efficiency in Vermont new homes, both for homes participating in ENERGY STAR and non-program homes. <a href="http://publicservice.vermont.gov/energy/ee_files/efficiency/eval/VT%20Final%20NC%20SF%20Overall%20%20Report%2071309.pdf">http://publicservice.vermont.gov/energy/ee_files/efficiency/eval/VT%20Final%20NC%20SF%20Overall%20%20Report%2071309.pdf</a>
Cost-Benefit Analysis	Individual electric measures receiving incentives must be cost-effective.

## LG&E and KU

<b>ORGANIZATION DETAILS</b>	
Organization Name	LG&E and KU
Sponsor Type	Regulated Utility
Fuel Type	Electric programs as focus, but do achieve gas savings also
Service Territory	Louisville Gas and Electric Company (LG&E) is a regulated utility that serves approximately 321,000 natural gas and 397,000 electric customers in Louisville and 16 surrounding counties, and Kentucky Utilities Company (KU), a regulated electric utility in Lexington, Ky., that serves approximately 546,000 customers in 77 Kentucky counties and five counties in Virginia.
Website	<a href="http://www.lge-ku.com">http://www.lge-ku.com</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	ENERGY STAR New Homes
Program Contact(s)	Bill Cooper, Program Manager 502-627-4084

	BILL.COOPER@lge-ku.com
Program Website	http://www.lge-ku.com/build
Year Established	Approved by Kentucky PSC in 2008
Target Audience	Builders, raters, architects, Realtors® and consumers
Budget Cycle	Annual budget
Budget	The current new construction program is approved to run from 2008 through 2014 with calendar year budgets. The 2011 budget for the program is \$1.1 million.
General Program Goals	The goal of this program is to create rater and builder infrastructure to support advanced energy efficient construction, and increase market penetration of ENERGY STAR qualified homes in the residential sector.
Specific Energy Savings Goals	For 2011, the energy savings goal is 4,624 MWh and 1.5 MWs.
Non-Energy Savings Goals	Tracked targets: New sites, new certifications, cancelations, sites pending, new builders, Avg. HERS Index, %/# Code +25% homes, and single family, multi-single and multi-family qualified units. Goals are tied to registrations and completions in the year. 2011 starts goal: 674 (2011 anticipated completions: 1153). Program to date completions goal at COY 2010: 1029. Actual completions COY 2010: 1305 (market penetration 2010: 18-24%).
Building Codes Requirements	ENERGY STAR Version 2.0, moving forward with Version 2.5/3.0 qualifications. State current building code: 2006 IRC/IECC
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes (see below)
Other Specifications	ENERGY STAR 2.0 incentives for single family, multi-single and multi-family dwellings (square footage based). ENERGY STAR 2.5/3.0 incentives fixed by dwelling type. Rebates available for advance contractor-builder teams enrolled in the program.
Other Green Home Programs	No formal green home programs are under DSM preview, but the new homes program promotes entry level LEED homes to drive ENERGY STAR component.
Multi-family Program	Yes
Renewables	No
Program Coordination	With regional, and statewide home builder associations, regional green build councils, Radon Associations, state and local Realtor organizations, regional USGBC councils, and state government.
Utility Partnerships	Other program fuels are not promoted. Goals are for energy, demand, and gas savings.
<b>PROGRAM COMPONENTS</b>	
Incentives	<p>Program will migrate in 2011 to ENERGY STAR Version 2.5/3.0 Rebate Program</p> <ul style="list-style-type: none"> <li>• Single Family: \$1,200</li> <li>• Multi-Single Family: \$750</li> <li>• Multi-Family: \$450</li> </ul> <p>Previously offer infrastructure rebates for new raters in territory. Rebate levels were driven by registration volume with incremental ratchets for equipment (e.g., blower door, duct blaster and/or flow-hood. At 10 completed sites new raters qualified for \$1,200; an additional 5 sites equipment rebates with POP at \$500; an additional 5 sites qualified for level 2 equipment rebates with POP at \$500. New rater development program on hold due to reach of rater targets in service territories.</p>
Financing	N/A
Training and Education	Educational opportunities include technical training seminars, builder / rater orientations, HERS training support, and business model training to builders and contractors. Supplemental: website, codebooks, manuals, newsletters / brochures
Marketing	Marketing via web, homebuilder magazines, brochures, yard signs, posters and point-of-promotion materials.

Program Qualification	Performance path only. Builder rebates for ENERGY STAR Version 2.5/3.0 maintain some minimum prescriptive requirements for heating and cooling (and water heating if in the KU [electric only] market).
Program Verification	HERS Provide/Rater. Also, program contractor quality assurance program is in place for REM file reviews, blind reviews and on-site full verification—sample based approach.
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	2009 and 2010 program annual report is archived for internal management review. It is not available to the public.
Cost-Benefit Analysis	Yes
<b>OTHER</b>	
	Awarded “2009 RESNET Market Transformation Award” Awarded “2010 EPA Partner of the Year—Program Delivery”

## Long Island Power Authority

<b>ORGANIZATION DETAILS</b>	
Organization Name	Long Island Power Authority (LIPA)
Sponsor Type	Regional Efficiency Program Administrator
Fuel Type	Electric
Service Territory	Suffolk County, Nassau County, and Rockaway Peninsula. Approximately 1,000,000 residential accounts
Website	<a href="http://www.lipower.org">www.lipower.org</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	NY ENERGY STAR Labeled Homes
Program Contact(s)	Lisanne Altmann, Director of Residential Programs 516-719-9843 laltmann@lipower.org  Roberty Massaro, Program Manager for LIPA’s ENERGY STAR Labeled Homes program 631-755-5359 rmassaro@service.lipower.org
Program Website	<a href="http://www.lipower.org/residential/efficiency/programs/nyesh.html">http://www.lipower.org/residential/efficiency/programs/nyesh.html</a>
Year Established	2004
Target Audience	Builder Focus and Consumer Focus
Budget Cycle	Annual
Budget	2011 Budget approximately 2.5 Million, \$1,000,000 in incentives, \$200,000 in rebates
General Program Goals	The LIPA ENERGY STAR Labeled Homes program is to reduce MW and MWh in all homes in the LIPA service territory. Efficiency Long Island is a 10-year, \$924 million energy efficiency program that will make a wide array of incentives, rebates and initiatives available to LIPA’s residential and commercial customers to assist them in reducing their energy usage and thereby lowering their bills.
Specific Energy Savings Goals	2011 Goals: MW: .54 MWh: 1042 Number of Homes: 650
Non-Energy Savings Goals	Increase Market penetration throughout LIPA’s service territory. LIPA would like to continue to increase their market penetration each year and to help homes be built to a higher standard.

Building Codes Requirements	IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes 10+ years
Other Specifications	
Other Green Home Programs	
Multi-family Program	
Renewables	There are incentives for PV systems.
Program Coordination	LIPA works with the townships and villages to help promote energy efficiency and specifically LIPA's ENERGY STAR Labeled Homes program.
Utility Partnerships	
<b>PROGRAM COMPONENTS</b>	
Incentives	New Construction, target audience is builders <a href="http://www.lipower.org/pdfs/cei/cw/Why_build.pdf">http://www.lipower.org/pdfs/cei/cw/Why_build.pdf</a> <a href="http://www.lipower.org/pdfs/cei/cw/Builder_incentive.pdf">http://www.lipower.org/pdfs/cei/cw/Builder_incentive.pdf</a>
Financing	N/A
Training and Education	Training and Education is on going throughout each year and there are training incentives available.
Marketing	LIPA advertises in local newspapers and news letters (i.e. Newsday, LIBI news letters, House and Home Magazine) , also market at over 100 shows and events throughout the year
Program Qualification	Both. The requirements are more stringent. <a href="http://www.lipower.org/pdfs/cei/cw/PartnerAgreement_Addendum.pdf">http://www.lipower.org/pdfs/cei/cw/PartnerAgreement_Addendum.pdf</a>
Program Verification	HERS Rater
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	<a href="http://www.lipower.org/ELI/reports.html">http://www.lipower.org/ELI/reports.html</a>
Cost-Benefit Analysis	Yes

# National Grid (New Hampshire)

ORGANIZATION DETAILS	
Organization Name	National Grid
Sponsor Type	Utility
Fuel Type	Both
Service Territory	New Hampshire - 100,000
Website	www.powerofaction.com/efficiency
PROGRAM BACKGROUND	
Program Name	ENERGY STAR Homes
Program Contact(s)	Peggy Curran, Sr. Program Manager 781-907-1597 margaret.curran@us.ngrid.com
Program Website	https://www.powerofaction.com/nhrnewconstruction/
Year Established	2007
Target Audience	Upstream
Budget Cycle	2 year
Budget	<p><u>Budget 2011</u> Gas: \$79,355 Electric: \$141,913</p> <p><u>Budget 2012</u> Gas: \$89,769 Electric: \$143,554</p>
General Program Goals	Transform the residential new construction market to build homes that are designed beyond code expectations and meet ENERGY STAR standards.
Specific Energy Savings Goals	<p><u>Savings Goals 2011</u> Gas Lifetime MMBTU: 20,400 Electric kWh Lifetime: 1,501,391</p> <p><u>Savings Goals 2012</u> Gas Lifetime MMBTU: 23,120 Electric kWh Lifetime: 1,501,391</p>
Non-Energy Savings Goals	None
Building Codes Requirements	IECC 2009
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Yes, currently ENERGY STAR Version 2.5 with training scheduled for Version 3.0 anticipating January 2012 implementation.
Other Specifications	None
Other Green Home Programs	Build Green NH, no effect on program
Multi-family Program	None
Renewables	Offering of renewables varies amongst utilities
Program Coordination	Statewide
Utility Partnerships	Primary fuel source drives program participant and claims savings.
PROGRAM COMPONENTS	
Incentives	\$4,750 total
Financing	None
Training and Education	Utility sponsored builder training
Marketing	nhsaves.com website, tradeshow and joint utility sponsorships.
Program Qualification	Both, requirements = to ENERGY STAR nhsaves.com
Program Verification	HERS
Energy Modeling	REM/Rate, Utility OTTER

## EVALUATION

Past Program Performance	None
Cost-Benefit Analysis	Yes

## National Grid (Massachusetts)

### ORGANIZATION DETAILS

Organization Name	National Grid
Sponsor Type	Utility
Fuel Type	Electric and Gas
Service Territory	Communities throughout the state of Massachusetts
Website	www.us.nationalgrid.com

### PROGRAM BACKGROUND

Program Name	Massachusetts New Homes with ENERGY STAR Program
Program Contact(s)	Beth Lonergan, Lead Analyst 781-907-1540 beth.lonergan@us.ngrid.com
Program Website	www.masssave.com/residential/building-a-house-or-addition/
Year Established	1998
Target Audience	Builders and consumers
Budget Cycle	Annual
Budget	Electric: \$480,000.00 Gas: \$1,587,024.00
General Program Goals	High Performance, energy efficient new homes in Massachusetts
Specific Energy Savings Goals	Electric: 2,124 MWH Gas: 97,008 therms
Non-Energy Savings Goals	Electric: 850 units Gas: 881 units
Building Codes Requirements	IECC 2009 and Stretch Code

### PROGRAM DESCRIPTION

ENERGY STAR Partner	Today the program has a number of projects that will qualify for ENERGY STAR Version 2. In the future, the Program will base energy performance on a Massachusetts defined standard and encourage ENERGY STAR qualification for all participants.
Other Specifications	Percent Savings over Massachusetts User Defined Reference Home
Other Green Home Programs	Major Renovations – Additions over 500 sq ft
Multi-family Program	Multi-Family incentives are offered for home units permitted under the residential use group. There is also a Multi-Family New Construction Pilot Program that services building with 5+ units and are 4-8 stories.
Renewables	The Massachusetts New Homes with ENERGY STAR program coordinates with the Massachusetts Clean Energy Center to educate participants on renewable energy and available grants.
Program Coordination	The Massachusetts New Homes with ENERGY STAR program is coordinated on a statewide level by the Joint Management Committee (JMC). The JMC is comprised of several utility companies and energy efficiency service providers in Massachusetts including, Berkshire Gas, Cape Light Compact, Columbia Gas of Massachusetts, National Grid Gas & Electric, New England Gas, NSTAR Gas and Electric and Western Massachusetts Electric Company.
Utility Partnerships	Savings methodology split amongst electric and gas sponsors based on territory and fuel type.

### PROGRAM COMPONENTS

Incentives	Builder incentives of \$750 to \$8,000 per home or unit are available based on the building type and overall energy performance of the project. Free CFLs for all hard wired fixtures are provided through the Program. The Program also coordinates the distribution incentives from other programs for high efficiency heating and cooling equipment.
Financing	There are currently no special financing products available for energy efficient new construction in Massachusetts.
Training and Education	The Program provides ongoing training for prospective program participants and technical trainings on relevant building science topics throughout the year. The JMC is an accredited, AIA continuing education provider.
Marketing	The Program primarily markets to builders and other market actors including architects and subcontractors who influence the specifications of new homes projects. The Program supplements its broad one to one and one to many outreach efforts with participation at key industry events and an online marketing campaign.
Program Qualification	The Program requires homes to adhere to the Performance Path and percent of savings incentives are based on a percent of savings over the Massachusetts User Defined Reference Home. Three Tier Levels are offered based on the percent of savings achieved. The Program also offers free CFLs, a CFL installation incentive per bulb verified by the HERS Rater, and pays rater incentives based on tier level achieved. The Program offers high efficiency heating and cooling equipment rebates in conjunction with Tier incentives. Low Income homes are eligible for a \$100 refrigerator/dishwasher combination incentive.
Program Verification	HERS Raters perform all third party testing in the field.
Energy Modeling	REM/Rate is used as modeling software.
<b>EVALUATION</b>	
Past Program Performance	The Program performs evaluations on annual basis and can be made available.
Cost-Benefit Analysis	The Program is tested for cost effectiveness on an annual basis.

# Northwest Energy Efficiency Alliance

<b>ORGANIZATION DETAILS</b>	
Organization Name	Northwest Energy Efficiency Alliance
Sponsor Type	Regional Efficiency Program Administrator
Fuel Type	Electric
Service Territory	Idaho, Montana, Washington and Oregon
Website	www.neea.org
<b>PROGRAM BACKGROUND</b>	
Program Name	Northwest ENERGY STAR Homes
Program Contact(s)	Anne Brink 503-688-5497 abrink@neea.org
Program Website	www.northwestenergystar.com
Year Established	2004
Target Audience	Builder focus and some consumer focus.
Budget Cycle	Annual
Budget	\$1.8 million without individual utility incentives.
General Program Goals	An infrastructure of builders and verifiers who continue to build and market energy efficient Homes without NEEA or utility support. A large enough participation in the voluntary program to help pave the way for new codes in the region.
Specific Energy Savings Goals	For 2011: 1.1 aMW including code changes. We are evaluating the program along with our code efforts. .32aMW without code savings.
Non-Energy Savings Goals	See above.
Building Codes Requirements	Washington Energy Code 2011, Oregon Energy Code 2011, Idaho and Montana IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, not sure what version and timeline mean.
Other Specifications	Use a prescriptive path, Oregon and Washington are higher than the national prescriptive path. Idaho and Montana are very close.
Other Green Home Programs	Built Green, Earth Advantage, work to have them include ENERGY STAR as their energy specification.
Multi-family Program	No
Renewables	None
Program Coordination	Regional Program Coordination. Also work nationally with EPA and RESNET for standards setting.
Utility Partnerships	Our program includes gas measures and electric measure. We look for cost effectiveness on electric measures.
<b>PROGRAM COMPONENTS</b>	
Incentives	A wide variety across the region, whole house and measure by measure.
Financing	None
Training and Education	Builder training targeted at new specs, and elements of the new specs that may be difficult to meet. Realtor training – how to sell ENERGY STAR Homes. Appraiser training. Verifier training . HVAC training – duct testing and heat pump commissioning and soon the HVAC checklist training.
Marketing	We run annual marketing campaigns targeted at home buyers. that assist builders in marketing their homes. These campaigns strive to get home buyers to tour ENERGY STAR Homes. The builders can join on to our campaign and use it to promote their business. We also provide merchandising support, parage home incentives etc.

Program Qualification	Prescriptive path – more stringent than national ENERGY STAR including a different HVAC checklist to align with regional PTCS standards. <a href="http://www.northwestenergystar.com/partner-resources/technical/index.html">http://www.northwestenergystar.com/partner-resources/technical/index.html</a>
Program Verification	Some HERS raters and some verifiers just certified to inspect prescriptive path homes. One key difference is that in Oregon and Washington HVAC contractors test their own duct systems. This has helped us implement duct testing into codes in Oregon and Washington.
Energy Modeling	None at this point. Looking at REM/Rate
<b>EVALUATION</b>	
Past Program Performance	<a href="http://neea.org/research/evaluationreports.aspx">http://neea.org/research/evaluationreports.aspx</a> Look for Northwest ENERGY STAR Homes.
Cost-Benefit Analysis	Yes, we evaluate cost effectiveness.

## NSTAR

<b>ORGANIZATION DETAILS</b>	
Organization Name	NSTAR
Sponsor Type	Utility
Fuel Type	Electric and Gas
Service Territory	Greater Boston and surrounding communities 987,000 electric residential and 240,000 gas residential customers
Website	<a href="http://www.nstar.com">www.nstar.com</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	New Homes with ENERGY STAR
Program Contact(s)	Mary McCarthy, Program Manager 781-441-3888 <a href="mailto:Mary.mccarthy@nstar.com">Mary.mccarthy@nstar.com</a>
Program Website	<a href="http://www.masssave.com/residential/building-a-house-or-addition/">www.masssave.com/residential/building-a-house-or-addition/</a>
Year Established	1998
Target Audience	Builders and consumers
Budget Cycle	Annual
Budget	Electric: \$2,018,492.00 Gas: \$1,584,121.00
General Program Goals	High Performance, energy efficient new homes in Massachusetts
Specific Energy Savings Goals	Electric: NLI 1,919,508 KWH LI 363,601 KWH Gas: 76,073 Therms
Non-Energy Savings Goals	Electric: 850 units Gas: 881 units
Building Codes Requirements	IECC 2009 and Stretch Code
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Today the program has a number of projects that will qualify for ENERGY STAR Version 2. In the future, the Program will base energy performance on a Massachusetts defined standard and encourage ENERGY STAR qualification for all participants.
Other Specifications	Percent Savings over Massachusetts User Defined Reference Home
Other Green Home Programs	Major Renovations – Additions over 500 sq ft
Multi-family Program	Multi-Family incentives are offered for home units permitted under the residential use group. There is also a Multi-Family New Construction Pilot Program that services building with 5+ units and are 4-8 stories.
Renewables	The Massachusetts New Homes with ENERGY STAR program coordinates with the Massachusetts Clean Energy Center to educate participants on renewable energy and available grants.

Program Coordination	The Massachusetts New Homes with ENERGY STAR program is coordinated on a statewide level by the Joint Management Committee (JMC). The JMC is comprised of several utility companies and energy efficiency service providers in Massachusetts including, Berkshire Gas, Cape Light Compact, Columbia Gas of Massachusetts, National Grid Gas & Electric, New England Gas, NSTAR Gas and Electric and Western Massachusetts Electric Company.
Utility Partnerships	Savings methodology split amongst Electric and Gas Sponsors based on territory and fuel type.
<b>PROGRAM COMPONENTS</b>	
Incentives	Builder incentives of \$750 to \$8,000 per home or unit are available based on the building type and overall energy performance of the project. Free CFLs for all hard wired fixtures are provided through the Program. The Program also coordinates the distribution incentives from other programs for high efficiency heating and cooling equipment.
Financing	There are currently no special financing products available for energy efficient new construction in Massachusetts.
Training and Education	The Program provides ongoing training for prospective program participants and technical trainings on relevant building science topic throughout the year. The JMC is an accredited, AIA continuing education provider.
Marketing	The Program primarily markets to builders and other market actors including architects and subcontractors who influence the specifications of new homes projects. The Program supplements its broad one to one and one to many outreach efforts with participation at key industry events and an online marketing campaign.
Program Qualification	The Program requires homes to adhere to the Performance Path and percent of savings incentives are based on a percent of savings over the Massachusetts User Defined Reference Home. Three Tier Levels are offered based on the percent of savings achieved. The Program also offers free CFLs, a CFL installation incentive per bulb verified by the HERs Rater, and pays rater incentives based on tier level achieved. The Program offers high efficiency heating and cooling equipment rebates in conjunction with Tier incentives. Low Income homes are eligible for a \$100 refrigerator/dishwasher combination incentive.
Program Verification	HERs Raters perform all third party testing in the field.
Energy Modeling	Program HERs Raters utilize REM Rate in the field to model homes for performance and incentives. ICF International the Program vendor uses their proprietary savings tool BEACON to simulate energy savings. BEACON is a DOE2 based model that generates deemed savings on a per-unit basis.
<b>EVALUATION</b>	
Past Program Performance	The Program performs evaluations on an annual basis.
Cost-Benefit Analysis	The Program is tested for cost effectiveness on an annual basis.

# NYSERDA

<b>ORGANIZATION DETAILS</b>	
Organization Name	New York State Energy Research and Development Authority (NYSERDA)
Sponsor Type	Public Benefit Corporation, Program Administrator
Fuel Type	Electric & Gas. Oil and Propane through 2011.
Service Territory	Customers who are assessed either the electric-based System Benefits Charge (SBC), or gas-based Energy Efficiency Portfolio Standard (EEPS) charge.
Website	www.nyserda.org
<b>PROGRAM BACKGROUND</b>	
Program Name	New York ENERGY STAR Homes
Program Contact(s)	Jim Quirk, Program Manager 866-697-3732 ext 3300 jmq@nyserda.org
Program Website	www.getenergysmart.org
Year Established	2001
Target Audience	Builders- through program participation agreement & incentives Consumers- through marketing & consumer education Energy consultants – through program participation agreement and incentives. NYESH program relies on HERS Raters to establish program compliance, part of the 'market transformation' strategy
Budget Cycle	Multi-year
Budget	<u>Systems Benefit Charge Funding</u> \$11.65 million annually, for the Market Rate New & Existing Homes Programs \$10.8 million annually, for the low-income New & Existing Homes Programs <u>Energy Efficiency Portfolio Standard Funding</u> \$12.4 million annually, for Market Rate New Homes Program
General Program Goals	Market Transformation to build & purchase high efficiency homes across New York State.
Specific Energy Savings Goals	Systems Benefit Charge (electric): 13.7 gWh Market Rate; 5 gWh Low-Income Energy Efficiency Portfolio Standard (gas): 271,304 MMBtu
Non-Energy Savings Goals	Building healthy and safe homes, by properly sizing ventilation equipment, and testing combustion appliances to ensure they are working properly.
Building Codes Requirements	IECC 2009 with NYS Enhancements (effective second half of 2011)
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes. ENERGY STAR Version 2 with NY enhancements through 6/30/11, ENERGY STAR Version 2.5 with NY enhancements 7/1-12/31/11. ENERGY STAR Version 3.0 with NY enhancements effective 1/1/12.
Other Specifications	Minimum kWh savings requirement, minimum HVAC equipment efficiency
Other Green Home Programs	Green Residential Building Program- recommended to be utilized in conjunction with NYESH Program.
Multi-family Program	Multi-family buildings which are 3-stories or less are eligible to participate in the New York ENERGY STAR Homes program. [Multifamily Performance Program is available for buildings 4 or more stories.
Renewables	PV, Solar Thermal
Program Coordination	Coordination with EPA's ENERGY STAR Homes program.
Utility Partnerships	None
<b>PROGRAM COMPONENTS</b>	
Incentives	See below
Financing	None
Training and Education	Training Incentives available to HERS Raters
Marketing	Program provides statewide marketing through newspapers, TV, web, and Energy \$mart Coordinators. Builders are also encouraged to market the NYESH Program

	through cooperative advertising incentives.
Program Qualification	<p>NYSERDA requires NYESH Technical Specifications, Addenda, and Participation Agreements to participate in Program, requirements are more stringent than EPA's program, including ventilation, combustion safety testing, and increased kWh savings required for all homes. Both Prescriptive &amp; Performance Path are allowed.</p> <p>Builder Participation:  <a href="http://www.getenergysmart.org/SingleFamilyHomes/NewConstruction/Builder/Participate.aspx">http://www.getenergysmart.org/SingleFamilyHomes/NewConstruction/Builder/Participate.aspx</a></p>
Program Verification	HERS Rater Verification, and third party Quality Assurance
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	<p><u>Market Characterization Report:</u>  <a href="http://www.nyseda.org/Energy_Information/ContractorReports/FinalMCANewYorkEnergyStarHomesProgram.pdf">http://www.nyseda.org/Energy_Information/ContractorReports/FinalMCANewYorkEnergyStarHomesProgram.pdf</a></p> <p><u>Measurement &amp; Verification Evaluation Report:</u>  <a href="http://www.nyseda.org/Energy_Information/ContractorReports/Nexant/2007%20Reports/Final%20M&amp;V%20Final%20NY%20Energy%20Star%20Labeled%20Homes.pdf">http://www.nyseda.org/Energy_Information/ContractorReports/Nexant/2007%20Reports/Final%20M&amp;V%20Final%20NY%20Energy%20Star%20Labeled%20Homes.pdf</a></p>
Cost-Benefit Analysis	TRC

<b>NYESH Incentives Available</b>	
Per Dwelling Unit	
Builder Home Incentive (BHI)	\$750- \$1250 upstate
	\$1,000- \$1,500 downstate
<u>Or Model Home Incentive</u>	\$3,000
<u>Or Display Home Incentive</u>	\$2,500
First-time Plan Review &	\$500
First-time Rating Incentive	
Affordable Housing Incentive	\$500
Quality Installer Incentive:	
Envelope	\$250
Heating	\$250
Cooling	\$250
<b>50% Cooperative Advertising Incentives</b>	
(annual production)	
1-60 homes	Up to \$50,000
61+ homes	Up to \$100,000

# NV Energy 1

<b>ORGANIZATION DETAILS</b>	
Organization Name	NV Energy
Sponsor Type	Utility
Fuel Type	Electric Program
Service Territory	Southern Nevada Population 1.9 Million +/-
Website	www.NVENERGY.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Energy Plus New Homes
Program Contact(s)	Douglas Eddie, Project Leader 702-402-5054 deddie@nvenergy.com
Program Website	<a href="http://nvenergy.com/saveenergy/home/rebates/energyplus.cfm">http://nvenergy.com/saveenergy/home/rebates/energyplus.cfm</a>
Year Established	2008
Target Audience	Production and Custom Residential Home Builders
Budget Cycle	Multi- Year (3 year cycle)
Budget	2011 - \$1.7M, 2012 - \$1.93M, 2013 - \$1.93M
General Program Goals	Moving new construction to an energy efficiency level 15% better than Energy Star level
Specific Energy Savings Goals	2011 – 2,624,000 kWh, 2012 – 2,984,000 kWh, 2013 – 2,984,000 kWh
Non-Energy Savings Goals	Improving comfort, safety, quality, and durability of new home construction
Building Codes Requirements	IECC 2006 through 6/30/2011, IECC 2009 after 7/1/2011
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	YES, ENERGY STAR Version 2.0, 2.5, and Version 3.0 by required deadlines.
Other Specifications	Homes must attain a HERS 70 or better to qualify
Other Green Home Programs	None
Multi-family Program	None
Renewables	May be included to attain the HERS rating, but not typically used
Program Coordination	Local
Utility Partnerships	Rebates are based on kWh savings as predicted by the REM/Rate “Fuels Summary Report”
<b>PROGRAM COMPONENTS</b>	
Incentives	Incentives are based on predicted kWh savings at a rate of \$.30 per kWh
Financing	None
Training and Education	Yes, ongoing training is provided to program participant builders
Marketing	Yes, ongoing. Marketing collateral is provided for distribution through program participants
Program Qualification	Performance path
Program Verification	Third party verification and QA/QC process required
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	Annual EM&V reports are conducted each year.
Cost-Benefit Analysis	Total Resource Cost analysis is performed annually

## NV Energy 2

<b>ORGANIZATION DETAILS</b>	
Organization Name	NV Energy
Sponsor Type	Utility
Fuel Type	Electric Program
Service Territory	Southern Nevada Population 1.9 Million +/-
Website	www.NVENERGY.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Advanced Building Techniques
Program Contact(s)	Douglas Eddie, Project Leader 702-402-5054 deddie@nvenergy.com
Program Website	<a href="http://www.nvenergy.com/saveenergy/business/incentives/advancedbuilding.cfm">http://www.nvenergy.com/saveenergy/business/incentives/advancedbuilding.cfm</a>
Year Established	2010
Target Audience	Production Residential Home Builders
Budget Cycle	Multi- Year (3 year cycle)
Budget	2010 - \$500K, 2012 - \$500K
General Program Goals	Introducing new and emerging energy efficient construction techniques and technologies to production homebuilders in the Southern Nevada market. Moving new construction to an energy efficiency level 50% better than Energy Code Requirements.
Specific Energy Savings Goals	2012 – 525,000 kWh, 2013 – 525,000 kWh
Non-Energy Savings Goals	Improving comfort, safety, quality, and durability of new home construction. Demonstrating a realistic pathway to zero energy home production. Participants will demonstrate improved framing techniques, innovative insulation packages, and the most highly efficient HVAC approaches to energy efficiency.
Building Codes Requirements	IECC 2006 through 6/30/2011, IECC 2009 after 7/1/2011
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	YES, ENERGY STAR Version 2.0, 2.5, and Version 3.0 by required deadlines.
Other Specifications	Homes must attain a HERS 50 or better score to qualify. Two-tiered program which pays base incentives for “shell” only and an additional incentive if renewables are used.
Other Green Home Programs	None
Multi-family Program	None
Renewables	Yes, several PV, and PVT systems are being used
Program Coordination	Local
Utility Partnerships	Rebates are based on kWh savings only
<b>PROGRAM COMPONENTS</b>	
Incentives	Rebates are based on kWh savings and generally approach \$5,000.00 for “Shell only” and up to \$7,500.00 for shell with renewables.
Financing	None
Training and Education	Yes, significant part of program goals
Marketing	Yes,
Program Qualification	Homes must score a HERS 50 or better. Performance path is typical
Program Verification	HERS 50 score or better is required with third party verification
Energy Modeling	Energy Pro
<b>EVALUATION</b>	
Past Program Performance	New Program
Cost-Benefit Analysis	Not Required for this program

## Oncor

<b>ORGANIZATION DETAILS</b>	
Organization Name	Oncor
Sponsor Type	Utility
Fuel Type	Electric
Service Territory	Approximately 3 million homes and businesses and operating approximately 117,000 miles of distribution and transmission lines in Texas.
Website	<a href="http://www.takealoadofftexas.com/">http://www.takealoadofftexas.com/</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	ENERGY STAR Qualified Homes
Program Contact(s)	Kim Hooper, Senior Program Manager 214-486-3158 Kimberly.hooper@oncor.com
Program Website	<a href="http://www.texasenergystarhome.info/">http://www.texasenergystarhome.info/</a>
Year Established	2002
Target Audience	Builder
Budget Cycle	Annual
Budget	Varies
General Program Goals	HERS ratings of 80 or better
Specific Energy Savings Goals	kW & kWh
Non-Energy Savings Goals	
Building Codes Requirements	IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes
Other Specifications	
Other Green Home Programs	Low Rise Multifamily
Multi-family Program	
Renewables	
Program Coordination	
Utility Partnerships	
<b>PROGRAM COMPONENTS</b>	
Incentives	Builders
Financing	
Training and Education	Yes
Marketing	Yes
Program Qualification	Both
Program Verification	HERS Raters
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	
Cost-Benefit Analysis	Yes

# Ontario Power Authority

<b>ORGANIZATION DETAILS</b>	
Organization Name	Ontario Power Authority
Sponsor Type	Utility
Fuel Type	Electric
Service Territory	Province of Ontario, approximately 4.5 million households
Website	<a href="http://www.powerauthority.on.ca/">http://www.powerauthority.on.ca/</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	
Program Contact(s)	
Program Website	<a href="https://saveonenergy.ca/Consumer/Programs/New-Residential-Construction.aspx">https://saveonenergy.ca/Consumer/Programs/New-Residential-Construction.aspx</a>
Year Established	2011
Target Audience	Upstream, Builder
Budget Cycle	Multi-Year 2011-2014
Budget	N/A
General Program Goals	Build and renovate single family homes that are energy-efficient.
Specific Energy Savings Goals	N/A
Non-Energy Savings Goals	Conservation Awareness among home buyers.
Building Codes Requirements	EnerGuide 83
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	No. Waiting for update ENERGY STAR New Home Specs to be finalized.
Other Specifications	N/A
Other Green Home Programs	EnerGuide for New Homes, ENERGY STAR for New Homes, LEED Canada for New Homes, R2000 for New Homes
Multi-family Program	Yes
Renewables	No
Program Coordination	Province-Wide
Utility Partnerships	MOU with gas utilities forthcoming.
<b>PROGRAM COMPONENTS</b>	
Incentives	<ul style="list-style-type: none"> <li>• All-Off Switches</li> <li>• Electronic Commutated Motor (ECM)</li> <li>• Seasonal Energy-Efficiency Ratio 15 Central Air Conditioners (SEER 15 CAC)</li> <li>• ENERGY STAR Qualified Light Fixtures and Other Efficient Lighting</li> <li>• Lighting Control Products</li> </ul>
Financing	No
Training and Education	No, forthcoming.
Marketing	Yes
Program Qualification	Both. Program is more or less equal to forthcoming new ENERGY STAR specifications for New Homes.
Program Verification	EnerGuide (Canadian equivalent to HERS)
Energy Modeling	Yes, HOT2000
<b>EVALUATION</b>	
Past Program Performance	No
Cost-Benefit Analysis	N/A

# Pacific Gas and Electric Company

ORGANIZATION DETAILS	
Organization Name	Pacific Gas and Electric Company
Sponsor Type	Utility
Fuel Type	Gas and Electric
Service Territory	Eureka to Bakersfield, California <ul style="list-style-type: none"> <li>• 5.1 million electric customer accounts. *</li> <li>• 4.3 million natural gas customer accounts.*</li> <li>• (* represents res and commercial customers)</li> </ul>
Website	www.PGE.com
PROGRAM BACKGROUND	
Program Name	California Advanced Homes
Program Contact(s)	Jane Jansen, Senior Program Manager 415-973-4853 Jsj3@pge.com
Program Website	www.californiaadvancedhomes.com multifamily.h-m-g.com
Year Established	2006
Target Audience	Builder
Budget Cycle	Multi-year based on program cycle
Budget	
General Program Goals	Residential New Construction (RNC) encourages single and multifamily residence builders to construct homes that exceed California's T-24 energy efficiency standards by minimum 15 percent. This goal will be achieved through a combination of incentives, technical education, design assistance and verification. The RNC Programs support the ambitious goals of the Strategic Plan and works in close coordination with the ZNE Pilot Program to raise plug load efficiency and focus on whole house solutions, in-home monitoring and visual display tools, and green building standards.
Specific Energy Savings Goals	MF: 3,942 kW, 4,463,823 kWh, 556,601 therms
Non-Energy Savings Goals	Number of units
Building Codes Requirements	Title 24
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Program implementer and utility are partners
Other Specifications	
Other Green Home Programs	ENERGY STAR MANUFACTURED HOUSING (ESMH) The ENERGY STAR Manufactured Homes Program (ESMH) is part of the statewide Residential New Construction (RNC) program offering. EMH addresses new factory-built housing. San Francisco: green home kickers for participation in approved green certification programs (GreenPoint Rated, LEED, etc); compact home kicker
Multi-family Program	California Multi-Family New Homes Program is a third party program administered for PG&E by the Heschong Mahone Company. CMFNH promotes and facilitates energy-efficient design in multi-family housing through design assistance, cash incentives, program coordination, and educational opportunities. To qualify, projects must achieve at least 15% above Title 24 minimum requirements using the performance method. Incentives are also available to the energy consultant to offset the cost of building energy modeling and to the developer to offset the cost of hiring a HERS rater.
Renewables	San Francisco: solar kickers; both programs: coordination with New Solar Homes Program
Program Coordination	Statewide
Utility Partnerships	N/A
PROGRAM COMPONENTS	

Incentives	CAHP and CMFNH were designed for the performance-based approach for compliance with the 2008 Title 24 Standards, offering a tiered, performance-based incentive structure where the incentives increase incrementally as the performance of the structure increases (based on energy savings). Further, a design team incentive is available to single-family builders to assist them in optimizing project energy savings. Additional financial incentives are available to further encourage energy efficient design and construction in single family buildings. For multi-family developers, incentives are available to the energy consultant to offset the cost of building energy modeling and to the developer to offset the cost of hiring a HERS rater. Refer to program websites
Financing	N/A
Training and Education	Webinars, classroom training
Marketing	Various (e.g., websites, participation in events to do outreach to the builder community, trade ads, etc.)
Program Qualification	Performance
Program Verification	Title 24 energy compliance computer run created and signed by a CEPE required to confirm program eligibility for enrollment; and HERS rater to verify measures are installed
Energy Modeling	EnergyPro and Micropas
<b>EVALUATION</b>	
Past Program Performance	Yes
Cost-Benefit Analysis	Yes

## Progress Energy Carolinas

<b>ORGANIZATION DETAILS</b>	
Organization Name	Progress Energy Carolinas
Sponsor Type	Utility
Fuel Type	Electric Utility, but programs are fuel neutral
Service Territory	Central and Eastern NC, Northeastern SC. Roughly 1.3 million
Website	www.Progress-Energy.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Carolinas Home Advantage
Program Contact(s)	Lake Newcomb 910-256-7226 Lake.Newcomb@PGNmail.com
Program Website	<a href="http://www.progress-energy.com/custservice/carres/efficiency/programs/ha/index.asp">http://www.progress-energy.com/custservice/carres/efficiency/programs/ha/index.asp</a>
Year Established	2009
Target Audience	75% builder focus, 25% consumer focus
Budget Cycle	Annual
Budget	Roughly \$1.5M - includes rebates to builders
General Program Goals	Increased levels of ENERGY STAR homes & Increased levels of ENERGY STAR homes built with 14 SEER and greater efficiency HVAC systems
Specific Energy Savings Goals	3,191,000 kWh 2011 goal
Non-Energy Savings Goals	
Building Codes Requirements	None – built to code & ENERGY STAR is baseline for program
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, ENERGY STAR Version 2.0 currently – program redesign to coincide with Version 3.0 rollout
Other Specifications	
Other Green Home Programs	No
Multi-family Program	Yes, equivalent to ENERGY STAR. Also, high-rise accepted, as long as ENERGY

	STAR equivalent
Renewables	Not affiliated with this program, but PEC does promote renewables through other programs
Program Coordination	PEC territory wide, with segmented management per 4 territories
Utility Partnerships	Disregards fuel type. No utility partnerships
PROGRAM COMPONENTS	
Incentives	Baseline – 5% discount for homeowner with ENERGY STAR home First tier - \$400 to builder for ENERGY STAR home w/ 14 SEER Second tier - \$700 for ENERGY STAR home w/ 15 SEER Third tier- \$1000 for ENERGY STAR home w/ (2) 15 SEER systems Fourth tier - \$1000 for ENERGY STAR home w/ 17 SEER geothermal Fifth tier - \$1600 for ENERGY SATR home w/ (2) 17 SEER geothermal
Financing	Ratepayer – cost recovery mechanism – state legislation mandated
Training and Education	Builder training, realtor training, appraiser training, for ENERGY STAR and Home Advantage Program
Marketing	Promotion through builder trade organizations and publications. Limited consumer marketing
Program Qualification	Prescriptive path. Baseline ENERGY STAR, then more stringent for rebates
Program Verification	HERs Rater ENERGY STAR certificate & AHRI certificate
Energy Modeling	No – only by third party
EVALUATION	
Past Program Performance	Roughly 1200 Home Advantage homes total in 2009 and 2010. Significant increase in 2011 to date. Performance is largely affected by greater economic conditions
Cost-Benefit Analysis	Yes, NC Utility Commission requires industry standard cost effectiveness tests passed prior to program launch, as well as continual measurement and verification to ensure performance
OTHER	
	Program redesign underway to coincide with ENERGY STAR Version 3.0 launch in 2012. Uncertain as to whether future program will correspond with ENERGY STAR

## Public Service of New Hampshire

ORGANIZATION DETAILS	
Organization Name	Public Service of New Hampshire (PSNH)
Sponsor Type	Electric Utility
Fuel Type	Electric Program (ENERGY STAR Homes is Fuel Neutral)
Service Territory	75% of New Hampshire homes
Website	www.PSNH.com
PROGRAM BACKGROUND	
Program Name	ENERGY STAR Homes Program
Program Contact(s)	Mike Demers 603-634-2789 demerml@psnh.com
Program Website	<a href="http://www.psnh.com/homeperformance/#Energy Star Homes">http://www.psnh.com/homeperformance/#Energy Star Homes</a>
Year Established	2001
Target Audience	Builders, Realtors, Homeowners (Still mostly focused on Builders as we implement ENERGY STAR Homes Version 2.5 and 3.0. We have done work with Realtors and with some consumer groups.)
Budget Cycle	Annual
Budget	NH: \$1,402,835 (NGRID: \$142k, NHEC: \$114k, PSNH: \$949k, Unitil: \$199k)

General Program Goals	Designed to be a market driving program, encouraging both builders and homeowners to build a new home with energy efficiency in mind. Seeking to raise awareness of the benefits of an ENERGY STAR Home. Assists with the ENERGY STAR Home certification. Educates builders on ever changing specification of the ENERGY STAR Home requirements.
Specific Energy Savings Goals	Energy Savings: 13,347,904 Lifetime kWh Savings Participation: 503 homes/units (NGRID: 50, NHEC: 37, PSNH: 378, Unitil: 38) Plus gas, LP and other fossil fuel savings
Non-Energy Savings Goals	Not specific goal, but the total resource cost test does include non-electric benefits including fossil fuel and water savings.
Building Codes Requirements	IECC 2006
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, ENERGY STAR Homes Version 2.0, moving to Version 2.5 July 1, 2011, then Version 3.0 January 1, 2012 per EPA.
Other Specifications	HERS Rating System provided by ResNet (REM/Rate). Also perform a Thermal Bypass Checklist for envelope review, a blower door test for air leakage, and a duct blaster test to measure duct leakage.
Other Green Home Programs	BuildGreenNH = <a href="http://www.buildgreennh.com/">http://www.buildgreennh.com/</a> NH ENERGY STAR Homes Program – Heat Pump Option (Air Source and/or Geothermal)
Multi-family Program	Yes, Part of ENERGY STAR Homes program.
Renewables	Yes, part of NH ENERGY STAR Homes program, Solar PV and Solar Hot Water affects energy savings AND HERS Score. Incentives for renewable energy is available via NHPUC ( <a href="http://www.puc.nh.gov/Sustainable%20Energy/RenewableEnergyRebates.html">http://www.puc.nh.gov/Sustainable%20Energy/RenewableEnergyRebates.html</a> )
Program Coordination	Statewide: NH Core Electric and Gas Utilities (NGRID, NHEC, PSNH, Unitil, both Electric & Gas companies)
Utility Partnerships	The NH ENERGY STAR Homes Program is Fuel Neutral and uses a NH User Designed Reference Home (UDRH) in RESNet to compare rated home with. UDRH was developed by NH Core Utilities and is maintained and updated periodically by Bruce Harley, Conservation Services Group.
<b>PROGRAM COMPONENTS</b>	
Incentives	Performance Based Incentive <ul style="list-style-type: none"> <li>• Single Family: \$500 to reach HERS=80, then \$50/point below 80.</li> <li>• Multi-Family: \$300 to reach HERS=80, then \$25/point below 80.</li> <li>• ENERGY STAR Appliances: \$25/appliance (Room AC, Clothes Washer, Refrigerator, Dish Washer, Programmable Thermostat)</li> <li>• ENERGY STAR Lighting Fixtures: \$25/fixture, CFLs: HERS Raters install up to 12</li> </ul>
Financing	None
Training and Education	Education done through Homebuilders & Remodelers of NH via HERS raters. Program Administrators also meet with builders, realtors and homeowners. Utilities also hire contractors to provide Energy Code Training and “Beyond Energy Code” Training that is available to builders, home inspectors, realtors and customers.
Marketing	Mostly through web sites (NHSaves.com, PSNH.com), through Homebuilders, through word of mouth.
Program Qualification	Performance Based incentive for Home Rating. See “Incentives” above (combination of Performance and Prescriptive)
Program Verification	HERS Raters (HERS Provider provides QA on HERS Rater work)
Energy Modeling	RESNET’s REM/Rate Software with NH’s User Defined Reference Home.
<b>EVALUATION</b>	
Past Program Performance	2001 Evaluation. See #43 at <a href="http://www.puc.nh.gov/Electric/Monitoring%20and%20Evaluation%20Reports/Monitoring_Evaluation_Report_List.htm">http://www.puc.nh.gov/Electric/Monitoring%20and%20Evaluation%20Reports/Monitoring_Evaluation_Report_List.htm</a>

Cost-Benefit Analysis	Total Resource Benefit Cost Test using NH Avoided Energy Supply Costs.
<b>OTHER</b>	
	The transition to ENERGY STAR Version 2.5 (7/1/2011) and 3.0 (1/1/2012) will further raise the bar for builders to incorporate different, more energy efficient practices.

## Questar Gas Company

<b>ORGANIZATION DETAILS</b>	
Organization Name	Questar Gas Company
Sponsor Type	Utility
Fuel Type	Gas
Service Territory	Utah
Website	www.thermwise.com
<b>PROGRAM BACKGROUND</b>	
Program Name	ThermWise
Program Contact(s)	Steve Bateson, Director 801-324-5047 steve.bateson@questar.com
Program Website	www.Thermwise.com
Year Established	2007
Target Audience	Both
Budget Cycle	Annual
Budget	\$32,000,000 overall (builder new homes 2,500,000)
General Program Goals	Dth savings and participation
Specific Energy Savings Goals	Dth 790,075 overall ( builder = 38,597) annually
Non-Energy Savings Goals	Market transformation
Building Codes Requirements	2006 IECC current state code
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes
Other Specifications	EE equipment
Other Green Home Programs	No
Multi-family Program	Yes
Renewables	Solar assisted gas water heater
Program Coordination	Statewide
Utility Partnerships	No – coordinate some with local electric utility (RMP).
<b>PROGRAM COMPONENTS</b>	
Incentives	See web site. Some whole home and some individual.
Financing	No
Training and Education	Yes
Marketing	Yes
Program Qualification	ENERGY STAR requirements – yes. We have discussed ACCA QI 5 but not implemented it as a requirement.
Program Verification	Raters and coordinated internal QA
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	Progress with issues.
Cost-Benefit Analysis	Yes – and third party program evaluation

# Sacramento Municipal Utility District

<b>ORGANIZATION DETAILS</b>	
Organization Name	Sacramento Municipal Utility District
Sponsor Type	Utility
Fuel Type	Electric programs
Service Territory	All of Sacramento County, with a portion of western Placer County (California)
Website	<a href="http://www.smud.org">http://www.smud.org</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	SolarSmart Homes
Program Contact(s)	Jim Burke, Program Manager 916-732-5411 <a href="mailto:jburke@smud.org">jburke@smud.org</a>
Program Website	<a href="http://www.smud.org/en/residential/solarsmart/Pages/index.aspx">http://www.smud.org/en/residential/solarsmart/Pages/index.aspx</a>
Year Established	SolarSmart was initiated by SMUD in 2006, although the roots of the program trace to the Beazer PowerHouse project in 2002.
Target Audience	Upstream target of new single-family residential homebuilders.
Budget Cycle	Annual
Budget	Up to \$382,500 in energy efficiency incentives, and \$1,921,500 in photovoltaic incentives available through the Solar Smart program. Energy efficiency incentives are variable based on particular improvements. PV incentives are provided at \$1.90 per watt AC for 2011.
General Program Goals	Maximum market penetration of new energy efficient technologies, resulting in a combination of solar PV and energy efficiency improvements generating at least a 60 percent reduction in electricity demand relative to a similar new home. Minimum energy savings are required from energy efficiency, as well as solar power generation, to introduce and integrate new technologies and advanced building techniques into the marketplace.
Specific Energy Savings Goals	60-85% electricity demand reduction relative to a similar sized new home in California. 25-35% improvement from State energy codes 35-40% cooling savings
Non-Energy Savings Goals	Integration of new technologies and building techniques into the plan offerings of local homebuilders.
Building Codes Requirements	Savings are calculated against CA Title 24 (2008). All California and applicable local building codes apply.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	No. While ENERGY STAR appliances are recommended as part of the program, the energy efficiency improvements go beyond the ENERGY STAR requirements for new homes, and are based on building improvements and technologies specific to the Sacramento region.
Other Specifications	N/A
Other Green Home Programs	No other new single-family construction programs offered by SMUD affect the implementation of this program.
Multi-family Program	N/A
Renewables	Solar PV systems are included in the program, incentivized at \$1.90 per watt AC up to the total energy demands of the home. Solar water heaters are one of the components of the program that builders may choose to incorporate.
Program Coordination	Program utilizes SMUD funds and is coordinated locally by SMUD staff.
Utility Partnerships	Overall energy efficiency includes incentives for all energy reductions, including natural gas.
<b>PROGRAM COMPONENTS</b>	
Incentives	Energy efficiency incentives are offered to homebuilders on a graduated scale, starting at \$1,100 and escalating up to \$3,000. Solar PV incentives are provided at \$1.90 per

	watt AC for 2011, up to the maximum energy demand of the home.
Financing	No financing is offered as part of this program.
Training and Education	SMUD staff will meet with homebuilders to address integration and program details relative to specific building plans and technologies. No formal training or education requirements exist for the program.
Marketing	SMUD offers additional incentives to homebuilders for marketing of Solar Smart homes, including hosting of an Open House at new developments, marketing on the SMUD website, and focused outreach efforts to SMUD customers.
Program Qualification	Minimum performance standards for participation in the program, with both a prescriptive and iterative option. Prescriptive package includes minimum improvements and solar PV system to reach program requirements. Iterative package allows builders to select those energy efficiency features which work best with their existing home plans, as long as minimum Solar Smart standards are still met. As indicated, the minimum qualifications for Solar Smart are more stringent than ENERGY STAR.
Program Verification	SMUD has a vendor contract to assess performance of building techniques and energy efficiency measures, along with solar PV energy savings. Verification for integration into building plans and construction documents is conducted by SMUD staff.
Energy Modeling	Energy Gauge, MICROPAS 8
<b>EVALUATION</b>	
Past Program Performance	1,320 homes have been contracted under the program since inception.
Cost-Benefit Analysis	Cost benefit analyses are performed annually as part of the review for the following year's budget and goal setting.

## Salt River Project

<b>ORGANIZATION DETAILS</b>	
Organization Name	Salt River Project
Sponsor Type	Power and Water Utility
Fuel Type	Fuel-neutral, performance target program.
Service Territory	SRP serves about half of the Phoenix metropolitan area, including roughly 840,000 SRP residential customers.
Website	www.srpnet.com
<b>PROGRAM BACKGROUND</b>	
Program Name	PowerWise Homes
Program Contact(s)	Nathan Morey, Program Design 602-236-4453 nathan.morey@srpnet.com Vicki Davis, Program Implementation 602-236-5623 vicki.davis@srpnet.com
Program Website	<a href="http://www.srpnet.com/energy/powerwise/savewithsrp/PowerWiseHomes.aspx">http://www.srpnet.com/energy/powerwise/savewithsrp/PowerWiseHomes.aspx</a>
Year Established	1970s. In the past, the program has been known as the Gold Medallion Homes, Climate-Crafted Homes, or SRP Certified Homes program.
Target Audience	Upstream focus with incentives and complimentary testing available to residential production home builders.
Budget Cycle	Annual – May 1st through April 30th.
Budget	The total program budget for Fiscal Year 2012 (5/1/2011 – 4/30/2012) is roughly \$2.7 million. The incentive budget is estimated to be \$1.7 million.
General Program Goals	Provide SRP customers with energy-efficient homes and develop market transforming construction practices throughout Phoenix and Arizona.
Specific Energy Savings Goals	Individually, all homes within a PWH development must have a HERS Index of 84 or better, performing at least 16% better than a typical new home. Overall, the program is

	expected to net nearly 3.2 million kWh in FY2012.
Non-Energy Savings Goals	Properly sized HVAC systems, balanced room pressures, tight construction, and fresh air ventilation provide greater customer comfort. Low-use plumbing fixtures save water and customer water costs.
Building Codes Requirements	The program does not enforce a specific energy code, but instead references the 2006 IECC through the HERS rating system. The 2006 IECC has been adopted by most, but not all cities in the Phoenix metropolitan area. The program's HERS index requirements ensure greater savings.
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	No. Long program history has developed recognition in the community. SRP prefers to keep the program flexible, and strives to exceed ENERGY STAR performance targets.
Other Specifications	The program is comprised of three performance-based Tiers. All homes are required to have a 14 SEER or better HVAC system(s), and to utilize the ENERGY STAR Version 2 "Thermal Bypass Checklist". Tier 3 participating homes are required to have EPA WaterSense labeled, or equivalent, plumbing fixtures.
Other Green Home Programs	N/A
Multi-family Program	N/A
Renewables	The program is compatible with SRP solar thermal or PV incentives.
Program Coordination	N/A
Utility Partnerships	SRP does not partner with other utilities for the PowerWise Homes program. However, high-efficiency, natural gas based performance measures can affect a home's HERS Index, which is recognized and rewarded in the PowerWise Homes program. The program is considered fuel-neutral.
<b>PROGRAM COMPONENTS</b>	
Incentives	Tier 1 – HERS 84-78 - \$450 per home Tier 2 – HERS 77-71 - \$800 per home Tier 3 – HERS 70 or less - \$1150 per home Complimentary HERS rating services – energy modeling and testing. <a href="http://www.srpnet.com/energy/powerwise/business/homebuilders.aspx">http://www.srpnet.com/energy/powerwise/business/homebuilders.aspx</a>
Financing	N/A
Training and Education	Ongoing builder training sessions help to clarify the program, concepts, and process.
Marketing	Ongoing marketing efforts target the building community and home-buying public.
Program Qualification	Performance-based program utilizing the HERS Index: Tier 1 – HERS 84-78, Tier 2 – HERS 77-71, Tier 3 – HERS 70 or less. All tiers must have: 14 SEER HVAC equipment; Energy Star v 2 "Thermal Bypass Checklist"; < 3 pascal room air pressure balance differential; and a whole-house fresh air ventilation system. Tier 3 homes must have EPA WaterSense or equivalent plumbing fixtures. <a href="http://www.srpnet.com/energy/powerwise/business/homebuilders.aspx">http://www.srpnet.com/energy/powerwise/business/homebuilders.aspx</a>
Program Verification	SRP partners with third-party HERS rating providers to assist builders with energy modeling, testing and verification. SRP pays the costs.
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	Previous annual evaluation reports have indicated lower than anticipated incremental savings results, and higher than anticipated free ridership survey results. Consequently, SRP has made minor changes over the years to continually improve the program's cost-effectiveness. The FY2010 program report showed a net savings of 2.6 million kWh with a TRC of 1.21. With two months to go, the FY2011 program is on track to save approximately 2.9 million kWh with a TRC of 1.5 or better.
Cost-Benefit Analysis	SRP uses the TRC cost-benefit analysis. For FY2012, the TRC is expected to be 1.8 or better.

# San Diego Gas & Electric

<b>ORGANIZATION DETAILS</b>	
Organization Name	San Diego Gas & Electric
Sponsor Type	Utility
Fuel Type	Electric and Natural Gas
Service Territory	SDG&E Service Territory includes all of San Diego County and parts of south Orange County
Website	www.sdge.com
<b>PROGRAM BACKGROUND</b>	
Program Name	California Advanced Homes
Program Contact(s)	Michael Colby, Program Manager 858-654-1813 mcolby@semprautilities.com
Program Website	<a href="http://www.sdge.com/builderservices/programs/advancedhomes/index.shtml">http://www.sdge.com/builderservices/programs/advancedhomes/index.shtml</a> and <a href="http://www.californiaadvancedhomes.com/">http://www.californiaadvancedhomes.com/</a> (Statewide)
Year Established	Current Program – 2010
Target Audience	Builders
Budget Cycle	2010-2012
Budget	\$4,398,013 total budget for 2010-2012, \$1,748,914 incentive budget for 2010-2012
General Program Goals	The California Advanced Homes Program (“CAHP”) was created to help the building industry design and develop more environmentally friendly communities.
Specific Energy Savings Goals	2010-2012 Program Cycle Goals - 606,519 kWh, 728 kW, 121,638 Therms
Non-Energy Savings Goals	N/A
Building Codes Requirements	Exceed the California Code of Regulations, Title 24, Part 6, 2008 Building Energy Efficiency Standards by a minimum of 15%
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, since 2000
Other Specifications	N/A
Other Green Home Programs	Incentive kickers for participation in LEED for Homes, GreenPoint Rated and California Green Builder
Multi-family Program	Participation in CAHP is open to single-family, low- and high-rise multifamily residential new construction
Renewables	Incentive kicker for PV and incentive kicker for participation in the New Solar Homes Partnership at the Tier 2 level
Program Coordination	Statewide program with the four California Investor Owned Utilities (Pacific Gas & Electric, Southern California Edison, Southern California Gas Company, and San Diego Gas & Electric)
Utility Partnerships	SDG&E is a dual-fuel Utility (Electricity and Natural Gas)
<b>PROGRAM COMPONENTS</b>	
Incentives	Financial incentives are available to builders of energy efficient new homes that exceed the 2008 Title 24 Standards by at least 15%. Incentives are calculated based upon the modeled performance relative to Title 24, with incentives starting at \$0.43 per kWh, \$75 per kW, and \$1.72 per Therm at 15% better than Title 24, and caps at \$1.29 per kWh, \$225 per kW, and \$5.14 per Therm at 45% better than Title 24.
Financing	N/A
Training and Education	Training seminars
Marketing	Statewide website ( <a href="http://www.californiaadvancedhomes.com">www.californiaadvancedhomes.com</a> ), numerous fact sheets, Program Handbook, booths at industry events
Program Qualification	Performance Path required. Less stringent than ENERGY STAR, but an incentive kicker provided for meeting ENERGY STAR
Program Verification	HERS rater
Energy Modeling	EnergyPro Version 5, Micropas Version 8

EVALUATION	
Past Program Performance	N/A
Cost-Benefit Analysis	E3 Calculator is used to evaluate the cost effectiveness

## Snohomish County PUD

ORGANIZATION DETAILS	
Organization Name	Snohomish County PUD
Sponsor Type	Utility
Fuel Type	Electric Programs
Service Territory	Snohomish County and Camano Island, WA.
Website	www.Snopud.com
PROGRAM BACKGROUND	
Program Name	ENERGY STAR Northwest
Program Contact(s)	Kevin Watier, Energy Services Program Manger 425 783-1714 kjwatier@snopod.com
Program Website	www.snopud.com/energystarhomes
Year Established	2008
Target Audience	Builder focus
Budget Cycle	Annual
Budget	\$130,000
General Program Goals	<ul style="list-style-type: none"> <li>• Enlist builders and developers to construct energy efficient homes</li> <li>• Save 361,111 kWh</li> <li>• Use the ENERGY STAR brand to promote efficient homes</li> </ul>
Specific Energy Savings Goals	361,000 kWh
Non-Energy Savings Goals	<ul style="list-style-type: none"> <li>• Use trade allies to promote the Build with ENERGY STAR program</li> <li>• Educate our customers.</li> </ul>
Building Codes Requirements	Current Washington State Energy Code (WSEC)
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Yes
Other Specifications	ENERGY STAR and Utility specification for heating systems
Other Green Home Programs	Built Green – no noticeable effect on program
Multi-family Program	Yes, mostly appliances and lighting
Renewables	Our Solar Express program offers loan and incentives for PV and solar hot water systems
Program Coordination	Regional Utility coordination
Utility Partnerships	We do not address non-electric issues other than refer to appropriate Utility.
PROGRAM COMPONENTS	
Incentives	Incentives are typically paid to the contractor. Each qualifying measure has an incentive amount and is additive. Incentives can range from \$20 - \$2,800 depending on the mix of measures.
Financing	None
Training and Education	
Marketing	Mainly website and builder outreach.
Program Qualification	Prescriptive Path
Program Verification	Utility verification
Energy Modeling	
EVALUATION	
Past Program Performance	Performance based on meeting kWh and budget goals.

Cost-Benefit Analysis	Cost analysis for the program not individual measures. Currently the program has a TRC of 1.31
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## Southern California Edison

ORGANIZATION DETAILS	
Organization Name	Southern California Edison
Sponsor Type	Utility
Fuel Type	Both. We pay Electric and Southern California Gas pays Therms
Service Territory	50,000 Square Miles of Southern California and approximately
Website	www.sce.com
PROGRAM BACKGROUND	
Program Name	California Advanced Homes
Program Contact(s)	Monica Leong, Technical Specialist 626-622-9182 monica.leong@sce.com
Program Website	www.californiaadvancedhomes.com
Year Established	1989 was our first residential program. The current program structure was established in 2010
Target Audience	Builder focused but will do some marketing to consumers
Budget Cycle	3 year budget cycle
Budget	Approximately \$17,500,000
General Program Goals	Influence the builders to build more efficient homes and to support the California Energy Efficiency Strategic Plan
Specific Energy Savings Goals	Approximately 5,000,000 kWh and 5,000 kW
Non-Energy Savings Goals	Reduce overall incremental cost through education and training
Building Codes Requirements	Title 24
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Yes we support all versions of ENERGY STAR. This is a bonus incentive in our program. We also do the ENERGY STAR for Manufactured Housing Program
Other Specifications	The houses must be at least 15% better than the current state energy code.
Other Green Home Programs	We give a bonus incentive for homes that get certified as GreenPoint Rated, LEED for Homes or NAHB Green Building Standard
Multi-family Program	Yes. It follows the same rules as the single family
Renewables	We do give a bonus incentive for Peak kW reduction as well as for participating in the New Solar Homes Program at a Tier 2 (30% better than code and 30% reduction in cooling)
Program Coordination	Statewide with the other 3 Investor Owned Utilities
Utility Partnerships	We each pay the full incentive to our customer and then reimburse each other on a quarterly basis.
PROGRAM COMPONENTS	
Incentives	The incentives are calculated based on several factors including orientation, climate zone, percent better than code and energy features in the house.
Financing	None
Training and Education	We have ongoing training and education for a variety of subjects
Marketing	We have print ads that run every month as well as a heavy presence at local and state Building Industry Association events.
Program Qualification	It is a performance only program at the moment. We are considering reintroducing appliances but only if the house itself complies.
Program Verification	HERS raters
Energy Modeling	EnergyPro and MicriPas

## EVALUATION

Past Program Performance	<a href="http://www.calmac.org/search.asp">http://www.calmac.org/search.asp</a>
Cost-Benefit Analysis	There is one done however the program is not cost effective. We serve a policy objective as the New Construction market is a key market to influence in energy efficiency and obtain the state's goals.

## Southwest Gas (Arizona)

### ORGANIZATION DETAILS

Organization Name	Southwest Gas
Sponsor Type	Utility
Fuel Type	Natural Gas
Service Territory	Arizona
Website	<a href="http://www.swgas.com">www.swgas.com</a>

### PROGRAM BACKGROUND

Program Name	Arizona Smarter Greener Better Homes Program
Program Contact(s)	Kevin Camp 702-876-7214 <a href="mailto:kevin.camp@swgas.com">kevin.camp@swgas.com</a>
Program Website	<a href="http://www.swgas.com/efficiency/az/energy_star.php">http://www.swgas.com/efficiency/az/energy_star.php</a>
Year Established	2007
Target Audience	Builder focus, new home construction
Budget Cycle	Annual
Budget	\$950,000
General Program Goals	The reduction of home energy use by meeting ENERGY STAR building performance standards and the installation of energy efficient appliances.
Specific Energy Savings Goals	A reduction in the therms used in homes built to ENERGY STAR building performance standards and the installation of energy efficient appliances.
Non-Energy Savings Goals	N/A
Building Codes Requirements	Homes are at least 15% more energy efficient than homes built to the 2004 International Residential Code (IRC), per <a href="http://energystar.gov">energystar.gov</a> .

### PROGRAM DESCRIPTION

ENERGY STAR Partner	The most current ENERGY STAR version that is approved by the EPA. Follows ENERGY STAR through any changes and upgrades.
Other Specifications	N/A
Other Green Home Programs	No
Multi-family Program	No
Renewables	N/A
Program Coordination	N/A
Utility Partnerships	N/A

### PROGRAM COMPONENTS

Incentives	\$225 - ENERGY STAR certification rebate; \$75-EF 0.62 storage water heater; \$200-EF 0.82 tankless water heater; \$400 - ENERGY STAR certified furnace. Limit 1 ENERGY STAR certification and 2 appliance rebates per home.
Financing	No
Training and Education	N/A
Marketing	Outreach brochures are given to builders to use at model homes.
Program Qualification	ENERGY STAR requirements only.
Program Verification	HERS raters
Energy Modeling	N/A

EVALUATION	
Past Program Performance	N/A
Cost-Benefit Analysis	N/A

## Southwest Gas (Nevada)

ORGANIZATION DETAILS	
Organization Name	Southwest Gas
Sponsor Type	Utility
Fuel Type	Natural Gas
Service Territory	Nevada
Website	www.swgas.com
PROGRAM BACKGROUND	
Program Name	Nevada ENERGY STAR Homes Program
Program Contact(s)	Kevin Camp 702-876-7214 kevin.camp@swgas.com
Program Website	<a href="http://www.swgas.com/efficiency/nv/energy_star.php">http://www.swgas.com/efficiency/nv/energy_star.php</a>
Year Established	2009
Target Audience	Builder focus, new home construction
Budget Cycle	Annual
Budget	\$270,000
General Program Goals	The reduction of home energy use by meeting ENERGY STAR building performance standards.
Specific Energy Savings Goals	A reduction in the therms used in homes built to ENERGY STAR building performance standards.
Non-Energy Savings Goals	N/A
Building Codes Requirements	Homes are at least 15% more energy efficient than homes built to the 2004 International Residential Code (IRC), per energystar.gov.
PROGRAM DESCRIPTION	
ENERGY STAR Partner	The most current ENERGY STAR version that is approved by the EPA. Follows ENERGY STAR through any changes and upgrades.
Other Specifications	N/A
Other Green Home Programs	No
Multi-family Program	No
Renewables	N/A
Program Coordination	N/A
Utility Partnerships	N/A
PROGRAM COMPONENTS	
Incentives	\$125 certification per eligible home.
Financing	N/A
Training and Education	N/A
Marketing	Outreach brochures are given to builders to use at model homes.
Program Qualification	ENERGY STAR requirements only.
Program Verification	HERS raters
Energy Modeling	N/A
EVALUATION	
Past Program Performance	N/A
Cost-Benefit Analysis	N/A

# Tennessee Valley Authority

<b>ORGANIZATION DETAILS</b>	
Organization Name	Tennessee Valley Authority
Sponsor Type	Utility
Fuel Type	Electric program
Service Territory	TVA is a wholesale power provide that sells electricity to 155 utilities. These utilities serve 3.8 million homes in the Tennessee Valley (parts of 7 Southeastern states)
Website	www.tva.gov
<b>PROGRAM BACKGROUND</b>	
Program Name	energyright
Program Contact(s)	Lisa Haislip 615-232-6914 lahaislip@tva.gov
Program Website	www.energyright.com
Year Established	2002
Target Audience	Individual power company develops program and incentivizes based on their current market – some programs are upstream and some are downstream
Budget Cycle	October 1 - September 30
Budget	Budget for FY11 is \$1.6 million – almost 80 percent of the budget is incentives and as market has slowed, program dollars have shrunk
General Program Goals	The New Homes Plan promotes all-electric, energy-efficient new homes by offering a graduated level of Market Value Payments (MVPs) for new homes built in the Tennessee Valley. Homes built at least 7% better than code qualify for the entry-level of the program while those built 15% better qualify as energy right® Platinum or Platinum Certified (ENERGY STAR Certified). Additionally, MVPs/incentives are paid for advanced water heaters installed in new homes. Target Audience: Homebuilders (single- and/or multi-family) in participating power company areas
Specific Energy Savings Goals	26.6 GWh
Non-Energy Savings Goals	36 MW
Building Codes Requirements	IECC 2006
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, ENERGY STAR Version 2
Other Specifications	N/A
Other Green Home Programs	N/A
Multi-family Program	Yes – MVP payment is 100-150 depending on the efficiency of the home
Renewables	Not under these programs (another area in TVA)
Program Coordination	N/A
Utility Partnerships	Program us currently directed at all electric homes
<b>PROGRAM COMPONENTS</b>	
Incentives	<ul style="list-style-type: none"> <li>• \$100-\$800 MVP/incentive paid to power company, depending on the structure type and efficiency of the home</li> <li>• \$100 MVP/incentive paid to power company for advanced water heaters installed per single-family home</li> </ul>
Financing	Financing may be available for the installation of the Heat Pump if the utility has elected to offer (program option)
Training and Education	Ongoing training for inspectors for non ENERGY STAR homes.
Marketing	Energy Right Solutions brand awareness
Program Qualification	Both paths are allowed depending on power company selection. Entry program is less stringent than ENERGY STAR, ENERGY STAR is top level
Program Verification	50-100% inspection on non ENERGY STAR – ENERGY STAR, HERs rater/provider
Energy Modeling	REM/Rate

## EVALUATION

Past Program Performance	Program reached a peak of 16,500 in 2002 but have continued to decline to a low last year of 3600. Change in incentive structure as well as decline in the economy and slow down in the building market have driven this number down.
Cost-Benefit Analysis	N/A

## The United Illuminating Company

### ORGANIZATION DETAILS

Organization Name	The United Illuminating Company
Sponsor Type	Electric Utility
Fuel Type	Both
Service Territory	47 Connecticut Towns 655,000 Residential, Commercial and Industrial Customers Served
Website	www.uinet.com

### PROGRAM BACKGROUND

Program Name	2011 Residential New Construction Program
Program Contact(s)	Michael Chesney 203-499-5935 Michael.Chesney@uinet.com
Program Website	www.ctenergyinfo.com; www.uinet.com
Year Established	1998
Target Audience	Both
Budget Cycle	Annual

Budget	<b>2011 Budget</b>	
	UI Labor	\$ 72,166
	Contractor Staff	\$ -
	Total Labor	\$ 72,166
	Materials & Supplies	\$ 2,500
	Outside Services	\$ 10,000
	Incentives	\$ 100,757
	Marketing	\$ 25,000
	Other	\$ -
	Administrative Expenses	\$ 5,017
	<u>\$ 215,440</u>	

General Program Goals	Reduce energy use and peak energy demand in new housing; Increase market awareness and understanding of the benefits of energy efficient building practices; Effect permanent market movement to more energy efficient residential construction in the State of Connecticut.
Specific Energy Savings Goals	Electric Savings: 313,000 kWh annual savings; 89 kW demand savings; Gas Savings: 51,098 ccf annual savings
Non-Energy Savings Goals	To save money; To create jobs; To reduce air pollution and negative environmental impacts; To promote economic development and energy security
Building Codes Requirements	ENERGY STAR Versions 2.0 and 2.5 required building codes

### PROGRAM DESCRIPTION

ENERGY STAR Partner	Yes - Utility/ States and Regional Energy Efficiency Group for Homes
Other Specifications	
Other Green Home Programs	
Multi-family Program	Yes
Renewables	Solar Hot Water Heaters
Program Coordination	Statewide coordination with other electric and natural gas utilities, Energy Conservation

	Management Board (ECMB), and the Department of Public Utility Control (DPUC)
Utility Partnerships	UI processes non-electric benefits for gas customers as well as oil and propane customers (oil and propane customers at 30% of standard incentives.)
<b>PROGRAM COMPONENTS</b>	
Incentives	See Table 1
Financing	Promote Energy Efficient Mortgages offered by lenders who sell their loans to Fannie Mae and Freddie Mac. The Energy Efficient Mortgage allows for an increase in a customers income commensurate with the projected energy savings.
Training and Education	The program sponsors training around ENERGY STAR Qualified New Homes; ENERGY STAR Version 3.0 RESNET approved HERS Rater training; ENERGY STAR Version 3.0 builder training.
Marketing	Program is promoted to home buyers, builders, developers, architects, building code officials, home energy raters, insulation contractors, HVAC contractors, geothermal installers, and real estate agents.
Program Qualification	Both prescriptive path and performance path. Program requirements meet or exceed ENERGY STAR qualification requirements with one exception. The United Illuminating Company Quality Installation Verification qualification requirements do not fully meet ENERGY STAR requirements for 2011.
Program Verification	HERS Rater required for performance path
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	The latest program impact evaluation of the 2000 Energy Star Home New Construction Program was conducted in 2002. A new program impact study is currently underway. Key Findings: <ul style="list-style-type: none"> <li>• Increase in duct leakage to the outside.</li> <li>• Increase in heating season whole house air infiltration</li> <li>• Improved envelope thermal resistance.</li> <li>• Reduced cooling system efficiency</li> <li>• Improved heating system efficiency</li> </ul>
Cost-Benefit Analysis	Yes.
<b>OTHER</b>	
	Connecticut Energy Efficiency Fund Zero Energy Challenge: <ul style="list-style-type: none"> <li>• Design and build competition for single and multi-family homes built in Connecticut between June 2010 and December 1, 2011.</li> <li>• Participants will compete for cash prizes while gaining exposure to media and various forms of technical assistance provided by the Challenge sponsors and partners.</li> </ul>

## Connecticut Energy Efficiency Fund Residential New Construction Program Incentives

Name	Tier	HERS Index Rating	Residential New Construction Incentives					
			Single Family		Single Family Attached		Multi-Family	
			Applicants	Rating Incentive	Applicant	Rating Incentive	Applicant	Rating Incentive
ENERGY STAR HERS Index Incentive	Tier 1	85 - 75	\$0	\$100	\$0	\$100	\$0	\$100 (cap = \$500)
	Tier 2	74 - 65	\$500	\$200	\$500	\$200	\$250	\$125 (cap = \$6,250)
	Tier 3	64 - 55	\$1,500	\$300	\$1,500	\$300	\$750	\$150 (cap = \$7,500)
	Tier 4	<55	\$2,000 + \$50/point below 55	\$400	\$2,000 + \$50/point below 55	\$400	\$1000 + \$25/point below 55	\$175 (cap = \$8,750)
Thermal Enclosure System	Thermal Enclosure System	\$0.50/square foot for above grade walls and ceilings for homes with natural gas or electric heat						
HVAC	ENERGY STAR 14.5 SEER; 12 EER	\$250 per system except Ductless Heat Pumps. \$1,000 per home for Ductless Heat Pump for homes with electric resistance heat \$250 per home for Ductless Heat Pumps \$750 per system for commissioned HVAC systems						
Water	Energy Efficient Hot Water	\$300 for ENERGY STAR natural gas instantaneous hot water with 0.82 efficiency and electronic ignition \$300 for ENERGY STAR gas boiler with indirect hot water \$400 for ENERGY Star Heat Pump Water Heater or solar thermal in an all-electric home (\$600 for both)						
Geothermal	VIP Geothermal	\$500 per ton capped at \$1,500 per location for VIP systems that meet 2012 ENERGY STAR specifications						
Lights	ENERGY STAR Lighting	Required in 80% of qualifying sockets in homes that receive an ENERGY STAR (HERS Index) rating incentive						
Appliances	ENERGY STAR Appliances	Required for clothes washer, dishwasher and refrigerator in any home that receives an ENERGY STAR (HERS Index) rating incentive						
Zero Energy Challenge	Homes That Approach Zero Energy	Same RNC Incentives as above. HERS Ratings partially subsidized by the Electric and Natural Gas Companies/CEEF for ZEC participants						

## Vectren Energy Delivery of Indiana

ORGANIZATION DETAILS	
Organization Name	Vectren Energy Delivery
Sponsor Type	Utility
Fuel Type	Both
Service Territory	Southern Indiana – 130,000 residential electric customers Vectren North serves 570,000 natural gas customers located in central and southern Indiana. Vectren South serves 111,000 natural gas customers located in southwestern Indiana.
Website	www.vectren.com
PROGRAM BACKGROUND	
Program Name	New Home Construction
Program Contact(s)	Amanda Eades, Conservation Coordinator 812-491-4808 aeades@vectren.com  Jill Barrett Gas Conservation Program Coordinator 812-491-4941 jbarrett@vectren.com  Mike Huber Gas Conservation Program Manager 812-491-4822 mhuber@vectren.com

Program Website	<a href="https://www.vectrenenergy.com/web/enablement/learn_about/conservation/new_home_construction_i.jsp">https://www.vectrenenergy.com/web/enablement/learn_about/conservation/new_home_construction_i.jsp</a>
Year Established	
Target Audience	Builder focus
Budget Cycle	Annual
Budget	\$113,500 incentives
General Program Goals	173 participants
Specific Energy Savings Goals	58,812 gross therm savings (mix between 85 HERS and 70 HERS)
Non-Energy Savings Goals	Increase market share of new homes being built beyond the standard building code
Building Codes Requirements	IECC 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, ENERGY STAR Version 2.0 <=85 (12/10-3/11) Silver ENERGY STAR Version 2.0 <=HERS 85 (04/11-11/11) ENERGY STAR Version 2.0 Certified <=70 (12/10-03/11) Gold ENERGY STAR Version 2.0 <=HERS 70 (04/11-11/11) ENERGY STAR Version 3.0 (04/11-11/11) Gray Water Heat Recovery
Other Specifications	
Other Green Home Programs	
Multi-family Program	
Renewables	
Program Coordination	
Utility Partnerships	Participation in this program requires that natural gas be the primary fuel source for both space and water heating
<b>PROGRAM COMPONENTS</b>	
Incentives	\$750 for HERS <=70, \$500 for HERS <=85 Individual incentives also available - \$200 for 92% AFUE natural gas furnace, \$100 for .62 EF natural gas water heater, \$150 for tankless natural gas water heater, \$20 for programmable thermostat
Financing	N/A
Training and Education	Vectren field sales representatives along with WECC (third party administrator) provide training to builders
Marketing	Builders constructing single-family homes will be targeted for this program. WECC staff will participate in local home shows and other events intended for builders and will maintain membership in local home builder's associates and other such industry groups. Opportunities to bring education to the local market will be identified and supported.
Program Qualification	
Program Verification	
Energy Modeling	
<b>EVALUATION</b>	
Past Program Performance	Not yet evaluated.
Cost-Benefit Analysis	Not yet evaluated. Cost-benefit tests are conducted by WECC with program operating plans.

# Vectren Energy Delivery of Ohio

ORGANIZATION DETAILS	
Organization Name	Vectren Energy Delivery
Sponsor Type	Utility
Fuel Type	Gas program
Service Territory	Vectren Energy Delivery of Ohio serves 314,000 natural gas customers in west central Ohio (Dayton area)
Website	www.vectren.com
PROGRAM BACKGROUND	
Program Name	New Home Construction
Program Contact(s)	Amanda Eades, Conservation Coordinator 812-491-4808 aeades@vectren.com  Jill Barrett Gas Conservation Program Coordinator 812-491-4941 jebarrett@vectren.com  Bob Baird Gas Conservation Program Manager 937-312-2541 rlbaird@vectren.com
Program Website	<a href="https://www.vectrenenergy.com/web/enablement/learn_about/conservation/new_home_construction_i.jsp">https://www.vectrenenergy.com/web/enablement/learn_about/conservation/new_home_construction_i.jsp</a>
Year Established	2009
Target Audience	Builder focus
Budget Cycle	Annual
Budget	\$52,500 incentives
General Program Goals	70 participants
Specific Energy Savings Goals	416 Ccf savings per unit; 29,120 annual Ccf savings goal
Non-Energy Savings Goals	Increase market share of new homes being built beyond the standard building code
Building Codes Requirements	IECC 2009
PROGRAM DESCRIPTION	
ENERGY STAR Partner	Yes, ENERGY STAR Version 2.0 <=70 (01/11-03/11), Gold ENERGY STAR Version 2.0 <=HERS 70 (04/11-12/11) ENERGY STAR Version 3.0 (04/11-11/11)
Other Specifications	
Other Green Home Programs	
Multi-family Program	
Renewables	
Program Coordination	
Utility Partnerships	Participation in this program requires that natural gas be the primary fuel source for both space and water heating
PROGRAM COMPONENTS	
Incentives	\$750.00 incentive for HERS index <= 70
Financing	Individual incentives also available - \$200 for 92% AFUE natural gas furnace, \$300 for 94% AFUE natural gas furnace, \$100 for .62 EF natural gas water heater, \$150 for tankless natural gas water heater
Training and Education	No
Marketing	Builders constructing single-family homes in VEDO's natural gas service territory will be targeted for this program. VEDO conservation staff will participate in local home shows and other events intended for builders and will maintain membership in local home builder's associates and other such industry groups. Opportunities to bring education to the local market will be identified and supported.
Program Qualification	
Program Verification	

Energy Modeling	
<b>EVALUATION</b>	
Past Program Performance	Program has not yet been evaluated.
Cost-Benefit Analysis	Program has not yet been evaluated. Cost-benefit tests are run during annual operating plan development.

## Vermont Gas Systems

<b>ORGANIZATION DETAILS</b>	
Organization Name	Vermont Gas Systems
Sponsor Type	Utility, Co-sponsor the ENERGY STAR for New Homes Program with Efficiency Vermont in the Vermont Gas System's service territory.
Fuel Type	Natural Gas
Service Territory	Northwestern Vermont, Franklin and Chittenden county, Approx. 35,000 customers
Website	www.Vermontgas.com
<b>PROGRAM BACKGROUND</b>	
Program Name	Vermont ENERGY STAR Homes
Program Contact(s)	Scott Harrington 802-951-0372 Sharrington@vermontgas.com
Program Website	<a href="http://www.vermontgas.com/efficiency_programs/res_programs.html#new_construction">http://www.vermontgas.com/efficiency_programs/res_programs.html#new_construction</a>
Year Established	2001
Target Audience	Builder and consumer
Budget Cycle	Annual
Budget	2010 Calendar year: \$241,000
General Program Goals	Encourage customers and builders to build new homes to meet or exceed the RBES code and ENERGY STAR.
Specific Energy Savings Goals	5,045 mcf
Non-Energy Savings Goals	
Building Codes Requirements	Vermont's Residential Building Energy Standard (RBES)
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	ENERGY STAR Version 3 full implementation as year progresses.
Other Specifications	ENERGY STAR appliance bonus applied to participating builders.
Other Green Home Programs	N/A
Multi-family Program	Measures are screened on a custom basis.
Renewables	N/A
Program Coordination	Vermont Department of Public Service and Vermont Public service Board provide governance. Program is co-administered with Efficiency Vermont for the homes in our service territory.
Utility Partnerships	Efficiency Vermont solely administers these services to customers who utilize fuels other than natural gas.
<b>PROGRAM COMPONENTS</b>	
Incentives	\$650 per participating home in 2010. \$600 per participating home in 2011.
Financing	N/A
Training and Education	Coordinated by Efficiency Vermont and contract implementer.
Marketing	Efficiency Vermont and Vermont Gas residential new homes marketing representative.
Program Qualification	Both
Program Verification	HERS rating

Energy Modeling	Through Efficiency Vermont
<b>EVALUATION</b>	
Past Program Performance	Not from our sponsorship.
Cost-Benefit Analysis	3.74 B/C for 2010 Cy

## Wisconsin Focus on Energy

<b>ORGANIZATION DETAILS</b>	
Organization Name	Wisconsin Focus on Energy
Sponsor Type	Efficiency Program Administrator
Fuel Type	Electric and Natural Gas
Service Territory	Statewide in Wisconsin. Per legislation, all Wisconsin Investor Owned Utilities must participate in Focus on Energy and municipal and cooperative utilities may elect to participate or run their own similar programs.
Website	<a href="http://www.focusonenergy.com">http://www.focusonenergy.com</a>
<b>PROGRAM BACKGROUND</b>	
Program Name	Focus on Energy New Homes Program
Program Contact(s)	Carter Dedolph, Senior Program Manager 608-249-9322 x315 <a href="mailto:carterd@weccusa.org">carterd@weccusa.org</a>
Program Website	<a href="http://www.focusonenergy.com/Residential/New-Home/">http://www.focusonenergy.com/Residential/New-Home/</a>
Year Established	Residential new construction full program implementation since 2001.
Target Audience	New dwellings with 1-3 units, though single-family homes are the major focus. Builders and consultants are targeted to deliver this "free market" program.
Budget Cycle	Annual
Budget	Varies from year to year. As program information is updated, it is posted on the program.
General Program Goals	Energy savings (both electric and gas) is the primary goal. Focus on Energy has 12-month, calendar year goals. So every year, a new budget and energy savings goals are set.
Specific Energy Savings Goals	Varies from year to year. As program information is updated, it is posted on the program
Non-Energy Savings Goals	The New Homes Program helps homeowners care for their investment by making energy efficiency improvements that save money and increase the comfort, safety, durability and value of their home.
Building Codes Requirements	Wisconsin Uniform Dwelling Code 2009
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	No, the Program no longer uses ENERGY STAR as the standard for program requirements. A builder or homeowner may wish to pursue ENERGY STAR certification for a home independent of program requirements, but must follow Program standards to receive Focus on Energy New Homes Program certification.
Other Specifications	<u>Program Requirements</u> <ol style="list-style-type: none"> <li>1. Energy Efficiency Requirement</li> <li>2. Air Tightness Requirement</li> <li>3. Sealed Sump Basin</li> <li>4. Sealed Plumbing Rough-in</li> <li>5. Full Coverage Foundation Insulation</li> <li>6. Slab-on-Grade Thermal Isolation</li> <li>7. Whole-House Ventilation</li> <li>8. Spot Ventilation for Bathrooms with a Tub or Shower</li> <li>9. Spot Ventilation for Gas and Electric Ranges</li> <li>10. Space Heating and Water Heating System Design</li> </ol>

	<ul style="list-style-type: none"> <li>11. Fireplace Design</li> <li>12. Carbon Monoxide Detectors</li> <li>13. Insulated and Gasketed Attic Access Hatch</li> <li>14. Duct Testing</li> </ul>
Other Green Home Programs	Cooperative agreement with Green Built Home
Multi-family Program	Separate multi-family program for buildings with 4 or more units
Renewables	Separate renewable program for residential buildings. Increased renewable incentives for a homeowner that undertakes efficiency first before renewable projects.
Program Coordination	Public benefits program
Utility Partnerships	Public benefits program
<b>PROGRAM COMPONENTS</b>	
Incentives	See chart below
Financing	Tiered incentives are offered for different levels of modeled energy savings for that home compared to that home built to the Wisconsin Uniform Dwelling Code. The incentives are paid to the builder to offset the cost of certification services of the consultant.
Training and Education	All consultants are initially required to attend two week program sponsored training. After training a mentoring/supervision period by program staff is required. All consultants are HERS Raters. Consultants must adhere to program requirements in order to promote their partnership with Focus on Energy. Continuing education requirements are set for some partners. Ongoing training is approved by Focus on Energy and offered through a variety of sources (e.g. the Energy Center of Wisconsin, Wisconsin Builders Association, etc.).
Marketing	The main marketing message is that Focus on Energy New Homes helps with a home's comfort, safety, durability, and energy efficiency. This message is delivered via a number of mediums (e.g. radio, print, Internet, postcards, trade shows, etc.). Various staff also assist with the large number of speaker requests from around the state.
Program Qualification	<ul style="list-style-type: none"> <li>1. Consultant Accreditation</li> <li>2. Partnering with a Builder</li> <li>3. Computer Modeling</li> <li>4. Site Visit Protocol <ul style="list-style-type: none"> <li>• Site Visit 1 – Framing and Insulation Review</li> <li>• Site Visit 2 – Performance Testing</li> </ul> </li> <li>5. Program Standards</li> </ul>
Program Verification	Consultants
Energy Modeling	REM/Rate
<b>EVALUATION</b>	
Past Program Performance	As program evaluations are provided, they are posted on the program Web site
Cost-Benefit Analysis	Focus on Energy has a portfolio-level goal, which utilizes the Total Resource Cost test. All residential, business, and renewables programs must meet a TRC of >1 when aggregated together. Individual programs are reviewed with the TRC as well, but all programs ultimately feed into the portfolio goal.

Level	Performance Incentives	Technology Packages	Amount
1	10% - 19.9% More Efficient Than Code	None Required	\$200
2	20% - 29.9% More Efficient Than Code	Any 2 Required	\$750
3	30% - 39.9% More Efficient Than Code	Any 3 Required	\$1,000
4	40% - 100% More Efficient Than Code	Any 3 Required	\$1,500
		Plus a renewable energy technology and an HRV or ERV	

Number	Technology Packages
1	Compact Fluorescent Lamps
2	ENERGY STAR Qualified Light Fixtures
3	Energy Efficient Windows
4	R5 Exterior Above Grade Wall Insulation
5	R10 Exterior Above Grade Wall Insulation
6	Rim and Band Joist Spray Foam Insulation
7A	Residential Water Heaters
8A	Residential HVAC Systems
9	Renewable Energy System(s)
additional financial incentives are available	

## Xcel Energy (Colorado)

### ORGANIZATION DETAILS

Organization Name	Xcel Energy (Colorado)
Sponsor Type	Utility
Fuel Type	Gas and Electric DSM programs, including renewable and load management programs
Service Territory	1.3 million in Colorado
Website	www.Xcelenergy.com

### PROGRAM BACKGROUND

Program Name	ENERGY STAR New Homes
Program Contact(s)	Bruce Peterson, Product Portfolio Manager 303-294-2263 Bruce.Peterson@xcelenergy.com
Program Website	<a href="http://www.xcelenergy.com/Save_Money_&amp;_Energy/For_Your_Home/Home_Efficiency/ENERGY_STAR_New_Homes_-_CO">http://www.xcelenergy.com/Save_Money_&amp;_Energy/For_Your_Home/Home_Efficiency/ENERGY_STAR_New_Homes_-_CO</a>
Year Established	2009
Target Audience	Primarily Builders, Energy Raters and Real Estate and Builder's Sales Agents. Secondary focus on residential home buyers.
Budget Cycle	Colorado only - Biennial, usually filed July 1
Budget	Colorado only - \$2.52M for 2011, have not filed for 2012/13 yet
General Program Goals	Increase market share of homes built to energy efficiency program requirements in Colorado
Specific Energy Savings Goals	Colorado 2011 only: 401,622 kWh savings 39,618 Dth savings
Non-Energy Savings Goals	N/A
Building Codes Requirements	Varies by jurisdiction, many are planning to adopt 2009 IECC in 2011

### PROGRAM DESCRIPTION

ENERGY STAR Partner	Yes, ENERGY STAR. We're looking at incorporating some aspects of Version 2.5 and 3.0
Other Specifications	<ul style="list-style-type: none"> <li>Detailed energy analysis of home plans</li> <li>On-site consultation during construction</li> <li>Detailed reports</li> <li>ENERGY STAR Certification</li> </ul>
Other Green Home Programs	N/A
Multi-family Program	N/A
Renewables	N/A
Program Coordination	N/A
Utility Partnerships	N/A

### PROGRAM COMPONENTS

Incentives	Up to \$2,200 for builders
Financing	N/A
Training and Education	Yes, program training for raters Support training and education efforts sponsored by other ES stakeholders such as the Governors Energy Office.
Marketing	Colorado only - Our Program Implementer is responsible for recruiting raters and builders into the program. This is primarily done on a face-to-face basis. Additionally, ads are placed in various print media and online sources such as Google, targeting builders, raters and real estate professionals. For residential customers, we utilize our billing system to send targeted program marketing information in the form of bill inserts or in our company newsletter. Brochure: <a href="http://www.xcelenergy.com/staticfiles/xe/Marketing/Files/CO-Res-ESNH-Brochure.pdf">http://www.xcelenergy.com/staticfiles/xe/Marketing/Files/CO-Res-ESNH-Brochure.pdf</a>
Program Qualification	Colorado only - Builders may choose either the Performance, Prescriptive or Sampling method to qualify their homes, however, the vast majority chooses the Performance method. A HERS rating is required and builders must achieve a rating of at least 75 to receive our incentives. Beginning April 1, 2011, homes no longer need to be ENERGY STAR "qualified," to receive our incentives however they must complete Thermal Enclosure Checklist (TEC).
Program Verification	All homes must have a HERS rating/verification
Energy Modeling	Yes, typically REM/Rate
<b>EVALUATION</b>	
Past Program Performance	After the initial program offering in 2009, it was determined the program was not cost effective due to minimal savings achieved from homes scoring in the 80-85 HERS range. We lowered the minimum HERS index to 75 and saw significant performance improvement.
Cost-Benefit Analysis	We currently use the Total Resource Cost test to measure the programs costs and benefits.

<b>Front Range &amp; Mountain Areas (Except Boulder*)</b>			
<b>HERS Index</b>	<b>Performance Rating Rebate</b>	<b>BOP Rating Rebate</b>	<b>Sampling Rating Rebate</b>
ENERGY STAR			
75 – 71	\$360.00	\$360.00	\$120.00
70 – 66	\$700.00	\$360.00	\$233.00
65 – 61	\$1,400.00	\$360.00	\$467.00
60 or below	\$2,200.00	\$360.00	\$733.00

# Xcel Energy (Minnesota)

<b>ORGANIZATION DETAILS</b>	
Organization Name	Xcel Energy (Minnesota)
Sponsor Type	Utility
Fuel Type	Both
Service Territory	1.3 million in Minnesota
Website	www.Xcelenergy.com
<b>PROGRAM BACKGROUND</b>	
Program Name	ENERGY STAR Homes
Program Contact(s)	Kelsey Burich 612-337-2328 kelsey.l.burich@xcelenergy.com Kim Sherman 612-337-2360 kim.sherman@xcelenergy.com
Program Website	www.Responsiblebynature.com
Year Established	1996
Target Audience	Builder and consumer
Budget Cycle	Annual
Budget	\$1.2 million
General Program Goals	Energy saving gas & electric
Specific Energy Savings Goals	MN 1.4 GWH, 35,000 Dth
Non-Energy Savings Goals	None
Building Codes Requirements	MN IECC 2006
<b>PROGRAM DESCRIPTION</b>	
ENERGY STAR Partner	Yes, Version 2. We are looking at incorporating some aspects of Version 3.
Other Specifications	Free services provided for natural gas homes: HERS Rating, ENERGY STAR and Tax Credit Verification, and Onsite Consulting
Other Green Home Programs	No
Multi-family Program	No
Renewables	No
Program Coordination	No
Utility Partnerships	No
<b>PROGRAM COMPONENTS</b>	
Incentives	Natural gas and electric service: \$500 for ENERGY STAR lighting, appliances, and ECM furnace motor Electric service only (homes over 2,000 sq.ft.): \$500 for ENERGY STAR lighting, appliances, and ECM furnace motor; \$250 for a qualified ENERGY STAR HERS rating Electric service only (homes under 2,000 sq.ft.): \$500 for ENERGY STAR lighting, appliances, and ECM furnace motor; \$150 for a qualified ENERGY STAR HERS rating
Financing	No
Training and Education	Builder and realtor
Marketing	Builder and consumer
Program Qualification	Available to homes built in Minnesota only
Program Verification	Yes
Energy Modeling	Yes
<b>EVALUATION</b>	
Past Program Performance	Yes, need to place a request with our market research dept.
Cost-Benefit Analysis	Yes