

The BGE ENERGY STAR® for New Homes Journey 2009 – 2016 and Beyond

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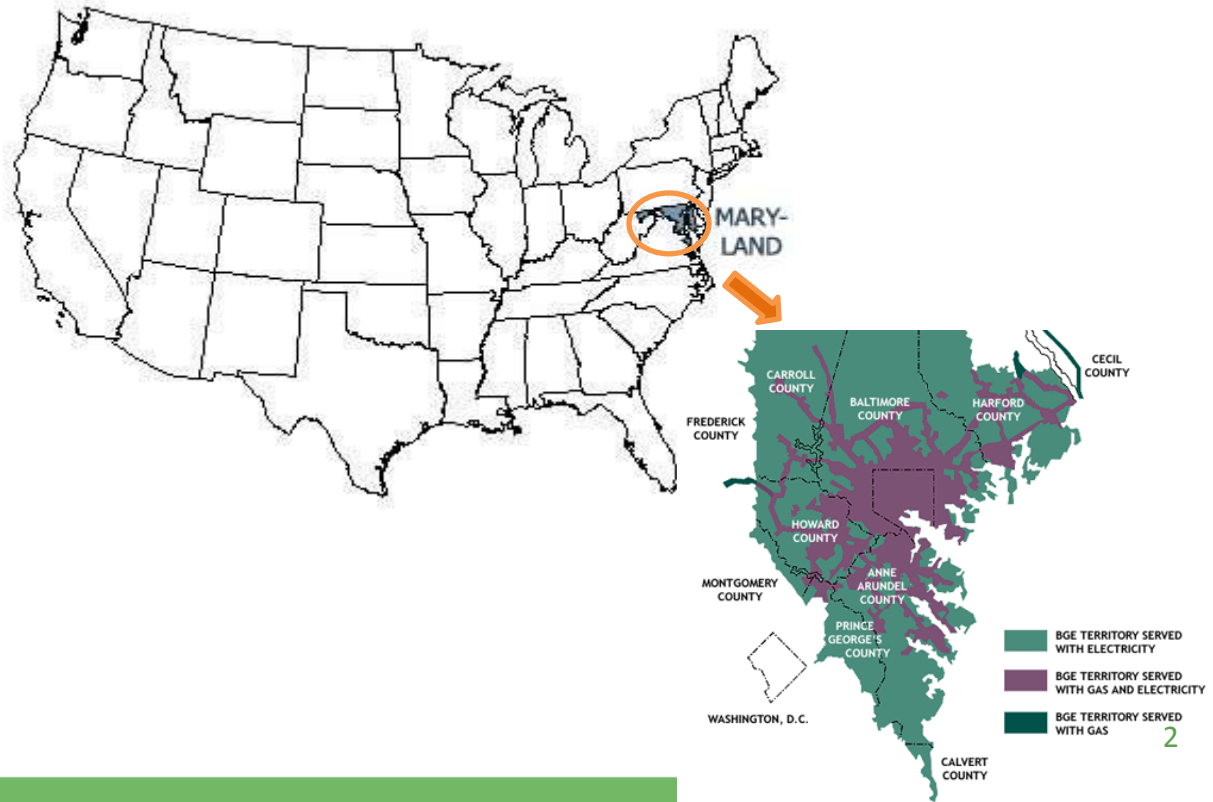
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Baltimore Gas and Electric

- Maryland's largest utility
- 200 years
- 1st gas utility
- 1.2 million electric
- 650,000 gas
- 31 million MWh
- 7,200 MW
- 3,400 Employees

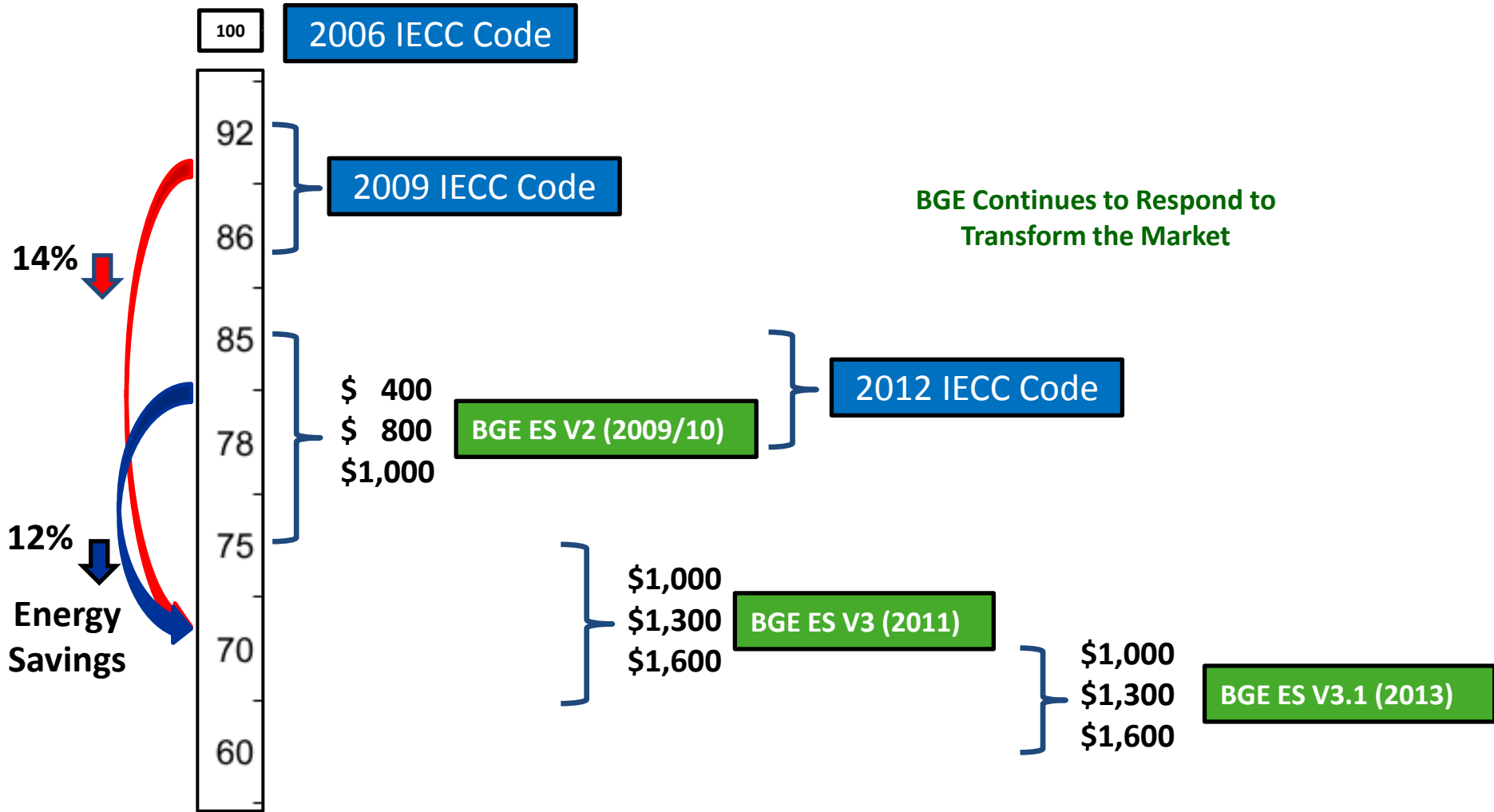


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200 YEARS

IECC Codes & New Homes Incentives – 2006-2013



HERS Score (lower is better)



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Program Structure

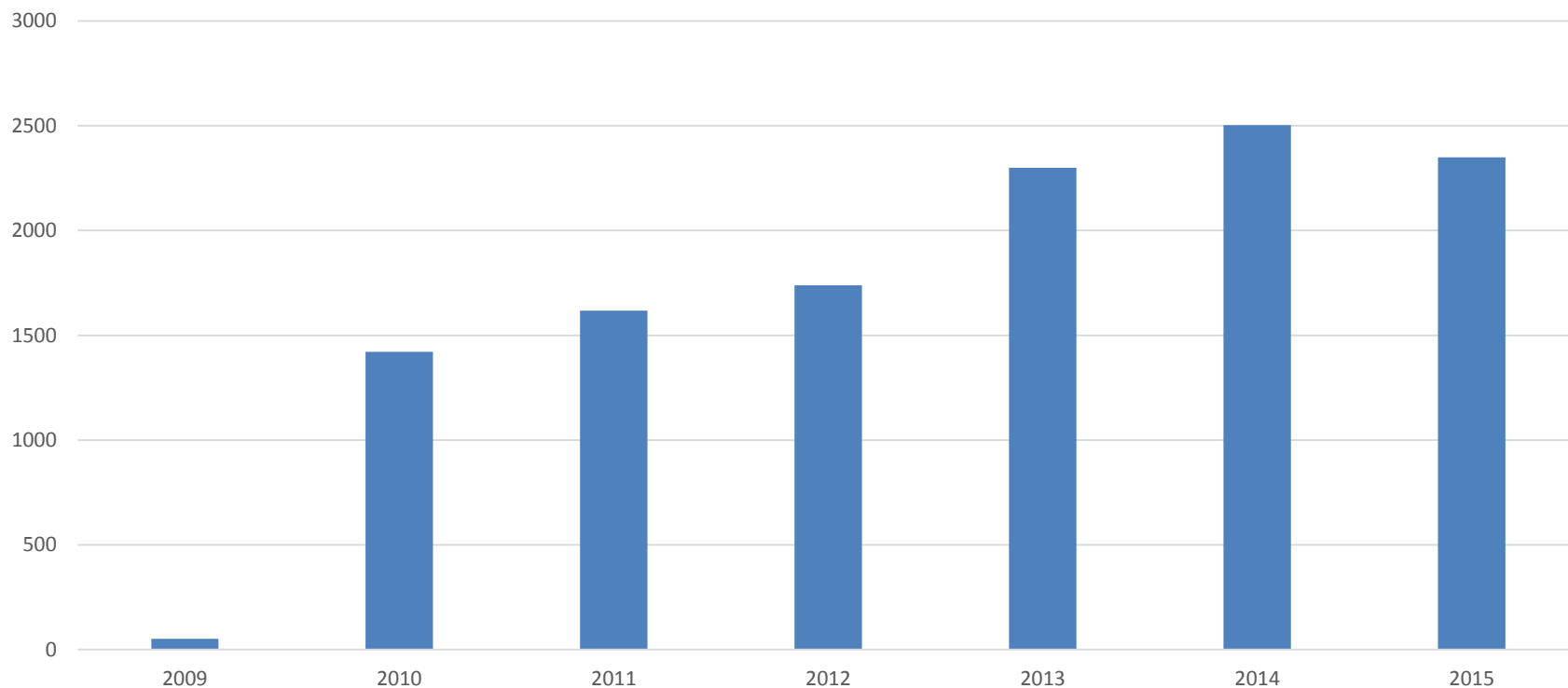
▪ 2009 – 2011

- ENERGY STAR HERS 85 = \$400
- ENERGY STAR HERS 80 = \$800
- ENERGY STAR HERS 75 = \$1000

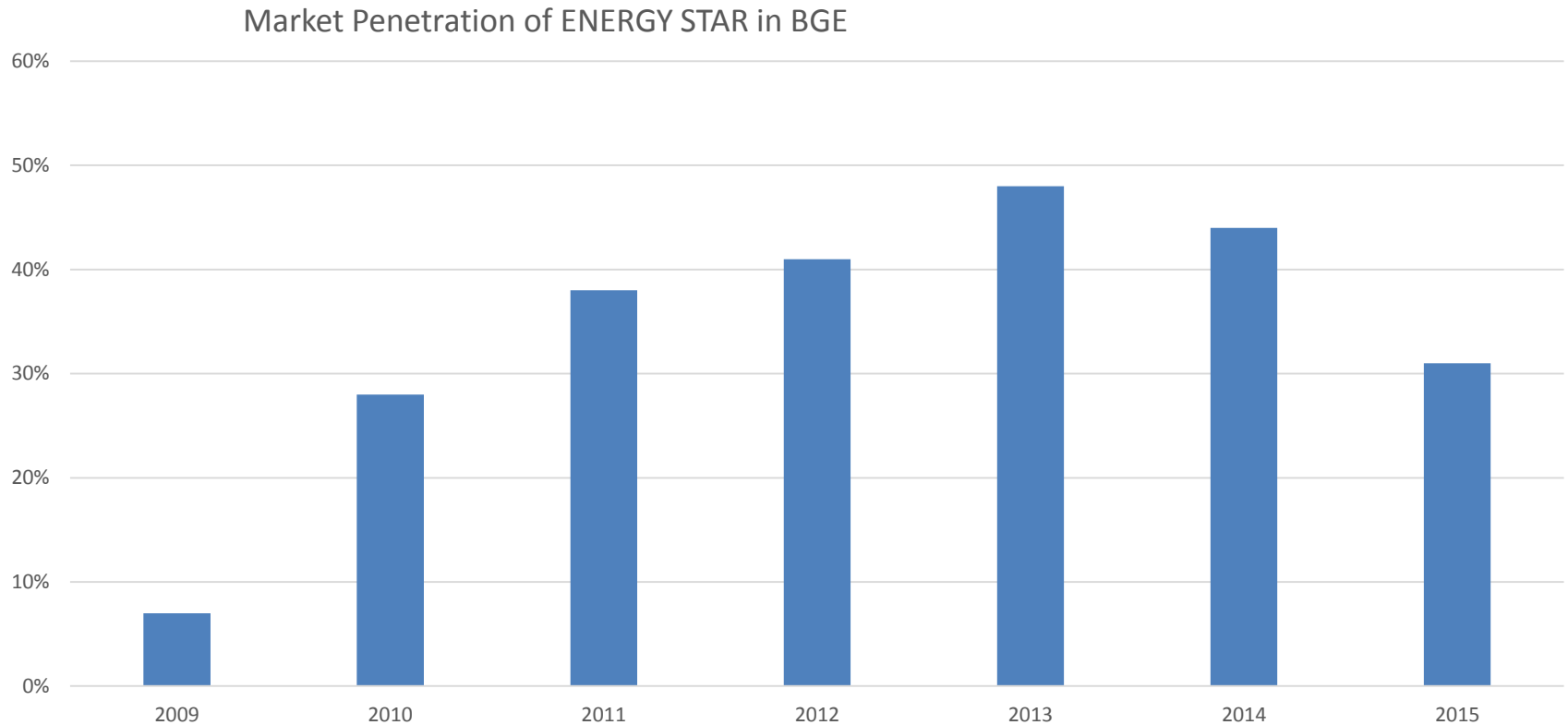


ENERGY STAR Homes built in BGE Territory

Number of ENERGY STAR Homes in BGE



Market Penetration Rates



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2013 Program Structural Changes

Version 3 with 2012 Code	Homes	Average kWh	Incentives
HERS 75-71 (\$1000)	99	1776	\$ 99,000
HERS 70-66 (\$1000-\$1300)	316	1103	\$ 403,000
HERS 65-61 (\$1300-\$1600)	1517	1379	\$ 2,398,400
HERS 60 and below (\$1600)	368	1326	\$ 588,800
Total	2300	3105 MWh	\$ 3,489,200
kWh per house	1,350		
Dollar per kWh	\$ 1.12		



2014 Program Structural Changes

Introduced 90% CFL minimum	Homes	Average kWh	Incentives
HERS 75-71 (\$1000)	67	935	\$ 67,000
HERS 70-66 (\$1000-\$1300)	260	1179	\$ 275,000
HERS 65-61 (\$1300-\$1600)	642	1298	\$ 893,700
HERS 60 and below (\$1600)	1540	1523	\$ 2,464,000
Totals	2509	3552 MWH	\$ 3,699,700
kWh per house	1,416		
Dollar per kWh	\$1.04		



2015 Program Structural Changes

Introduced Version 3.1	Homes	Average kWh	Incentives
HERS 70-66 (\$1000)	206	1496	\$ 206,000
HERS 65-61 (\$1300)	437	1357	\$ 568,100
HERS 60 and below (\$1600)	1351	1775	\$ 2,161,600
Total	1994	3294 MWH	\$ 2,935,700
kWh per House	1,651		
Dollar per kWh	\$0.89		



2016 Program Structure Changes

Introduced pay per house type	Homes	Average KwH	Incentives	Average Square footage
Two on Two	8	923	\$ 4,400	1619
Townhome	514	1403	\$ 385,500	2470
Single Family Detached	278	2483	\$ 347,500	4636
Total	800	1419 MWh	\$ 737,400	
kWh per House	1,773			
Dollar per kWh	\$0.52			



Path forward for New Homes program

- Continue to pilot new technology i.e.
 - Learning thermostats,
 - Connected LEDs,
 - Smart house technology,
 - Solar + Storage
- New Home Concierge
 - Deliver 1 hour training on how to live efficiently in new home
 - Deliver additional LEDs, learning thermostats, behavioral and automated technology



Overall Trends

- ENERGY STAR is still the most common platform
- Many are adopting tiered structures for their programs, with different incentive levels for various levels of efficiency
- Because of the direction building codes are heading, moving slowly towards Zero Net Energy (perhaps because the 2015 IECC is adopting HERS and incorporating a performance path)
- Programs are still being delivered predominantly through contractors, however, some new players emerging are the real estate industry, lenders, appraisers, connected service providers

Source: 2015 CEE Report

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