

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT OFFICE OF INSPECTOR GENERAL

November 20, 2015

TO: Clifford Taffet, General Deputy Assistant Secretary, D

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FROM: Kathryn Saylor, Assistant Inspector General for Evaluation, GAH

SUBJECT: State Energy Standards (Project Number 2015-OE-0005)

In response to your request, the Office of Inspector General, Office of Evaluation (OE), reviewed State qualified allocation plans (QAP) to identify what building standards States use to award tax credits for low-income housing construction. The U.S. Department of Housing and Urban Development (HUD) encourages State and local governmental entities administering HUD-funded Home Investment Partnerships Program projects to adopt Energy Star standards for new construction or substantial rehabilitation. The HUD Office of Community Planning and Development (CPD) tracks units that meet the Energy Star building standard as they contribute to HUD's priority goal for energy-efficient housing. You asked OE to review QAPs to determine whether States included alternative building standards, equivalent to the Energy Star building standard, which could contribute to achieving the priority goal.

Background

In its 2006 Report to the Congress, Promoting Energy Efficiency at HUD in a Time of Change, HUD described its department wide comprehensive strategy to significantly reduce energy use in HUD's inventory of public and assisted housing and in HUD-financed housing with a goal that

HOME grantees adopt energy efficiency guidelines and incorporate Energy Star product and construction standards. In fiscal year 2007, CPD began tracking the number of HOME units built to Energy Star standards.

There is now a proliferation of standards, rating, and certification programs in the marketplace to help guide, demonstrate, and document efforts to deliver sustainable, highperformance buildings.

Source: Building Green

Office of Inspector General Office of Evaluation 451 7th Street SW, Room 8170, Washington DC 20024 Phone (202) 708-0430, Fax (202) -401-2488 Visit the Office of Inspector General Website at <u>www.hudoig.gov</u> In its December 2012 progress report and energy action plan, Affordable Green: Renewing the Federal Commitment to Energy-Efficient, Healthy Housing, HUD reported spending approximately \$6.4 billion annually on utility costs in public and assisted housing. To address energy efficiency goals, HUD adopted energy building rating standards, including Energy Star, the 2009 International Energy Conservation Code (IECC)¹, the Enterprise Green Communities Initiative, the National Green Building Standard, Leadership in Energy and Environmental Design (LEED) for Homes (for single-family), and LEED New Construction (for multifamily or commercial development), as well as regionally or locally recognized green standards such as Earthcraft and Built Green.² Green, or sustainable, building is the practice of creating and using healthier and more resource-efficient models of construction, renovation, operation, maintenance and demolition. In its fiscal year 2014 agency financial report, HUD committed to creating energy-efficient, green, and healthy housing, saying that reducing utility costs—generating

savings for residents and owners as well as for taxpayers-is a key HUD priority. In May 2015, HUD and the U.S. Department of Agriculture adopted the 2009 International Energy Conservation Code (IECC) as the minimum energy standard for construction of rental housing and home-ownership housing assisted under the HOME program (E-05-B).

On its Web site, the U.S. Environmental Protection Agency (EPA) describes Energy Star as a voluntary program to identify and promote energy-efficient products and buildings to reduce energy consumption. To earn the Energy Star label, a home

must undergo a process of inspections, testing, and third-party verification to meet strict requirements by

To earn the Energy Star certification for an entire home, the home must meet strict guidelines for energy efficiency. Homes achieve this level of performance through a *combination* of energy-efficient improvements, including effective insulation systems, highperformance windows, tight construction and ducts, efficient heating and cooling equipment, and Energy Star-certified lighting and appliances.

Source: HUD Guidance for Reporting CDBG (Community Development Block Grant) Accomplishments and Performance Measures in IDIS (Integrated Disbursement and Information System), October 2012

delivering better quality, comfort, and durability. Homes certified under EPA's 2012 requirements are at least 15 percent more efficient than those built to the 2009 IECC standard and include additional energy-saving features to deliver a performance advantage of up to 30 percent compared to typical new homes.³

The Low-Income Housing Tax Credit program, managed by the Internal Revenue Service (IRS), encourages the development of low-income rental housing by providing owners with tax credits to construct new residential and commercial projects. To participate in the program, IRS requires State housing finance agencies to maintain QAPs that explain how the program will be administered in the State. One of ten criteria that a State must use to allocate housing credit

¹ IECC is a model code that establishes minimum design and construction requirements for energy efficiency.

² Green, or sustainable, building is the practice of creating and using healthier and more resource-efficient models of construction, renovation, operation, maintenance and demolition. <u>http://archive.epa.gov/greenbuilding/web/html/</u>

³ EPA established the Energy Star program in 1992 as a voluntary program under the authority of the Clean Air Act. In 2005, Congress enacted the Energy Policy Act and "established at the Department of Energy and the Environmental Protection Agency a voluntary program to identify and promote energy–efficient products and buildings to reduce energy consumption, improve energy security, and reduce pollution through voluntary labeling of or other forms of communication about products and buildings that meet the highest energy efficiency standards." http://www.energystar.gov/about?s=footer

amounts among projects is the energy efficiency of the project. IRS does not require States to identify or include energy efficiency standards in their QAPs.

Results

We reviewed QAPs for the 50 States and the District of Columbia. States did not include the level of detail on building standards that CPD anticipated in their QAPs. States discussed compliance with elements of some energy efficiency building standards but were not consistent in requiring overall compliance with the standards. This inconsistency prevented us from determining with certainty that alternative standards in any QAP were equivalent to Energy Star certification requirements. The results of our QAPs review are attached.

Since HUD committed to support Energy Star as a priority goal, it has adopted numerous additional building standards that contribute to energy efficiency. In the HUD FY 2010-2015 Strategic Plan, HUD committed to support energy efficient, green, and healthy housing as a specific strategic goal. Just as HUD adopted the energy star building standard as its quality measure for the HOME program in 2006, it could adopt new policy to expand tracking toward its priority goal to include additional building standards.

To get a more complete picture of the energy efficiency building standards States have implemented, we suggest you refer to

- A U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Web site, which provides the status of State energy code adoption (<u>https://www.energycodes.gov/adoption/states</u>) and
- The International Code Council Web site, which provides State and jurisdiction adoption of a variety of international construction codes (<u>http://www.iccsafe.org/about-icc/overview/international-code-adoptions/</u>).
- cc: Mike Freedberg, Office of Economic Resilience, Senior Advisor for High Performance Crystal Bergemann, Office of Economic Resilience, Senior Energy Analyst Adrian Macias, Office of Economic Development, HUD-Stat meetings Lisa Abell, OIG Audit Liaison Officer for CPD Randy McGinnis, AIGA

Attachment

Qualified Allocation Plans Comparison

State	Plan date	Energy standards and green programs
Alabama	2015	2009 or 2012 IRC
	2012	Energy Star**
Alaska	2013	2009 and 2012 IECC
		Energy Star** BEES
Arizona	2014	IECC
ATIZUIIa	2014	Energy Star**
Arkansas	2013	None included in QAP
California	2015	LEED
Cumorina	2013	Green Communities
		Green Point
		2008 Energy Efficiency Standards
		Energy Star**
Colorado	2014	2011 Enterprise Green Communities
		LEED Energy
		Star**
		Energy Outreach
Connecticut	2013	None included in QAP
Delaware	2014	Energy Star**
		2009 IECC
Florida	2014	None included in QAP
Georgia	2014	Energy Star**
		IECC
		Earth Craft
		LEED ECG
Hawaii	2013-	State Energy Conservation Code
пажан	2013-2014	LEED
	2014	NGBS
		EGC
		Energy Star
Idaho	2014	IECC
	-	Energy Star
		LEED
		NGBS
		EGC
		ICC 700 National Green Building Standards
Illinois	2014	Energy Star**
		LEED
		EGC
		NGBS

North Carolina	2014	Energy Star
THEN TOTA	2013	New York State Energy Research and Development Authority Multifamily Building Performance Program
New York	2013	NGBS Energy Star**
New Mexico	2013	LEED EGC NCPS
		NGBS LEED
New Jersey	2013	New Jersey Energy Star Equivalency Requirements Energy Star
New Hampshire	2014	None Included in QAP
		Division Energy Standards LEED
Nevada	2014	Energy Star IECC
Nebraska	2014	None included in QAP
	2014	Energy Star
Missouri Montana	2014 2014	2012 IRC 2009 IECC
Mississippi	2015	Energy Star**
	2015	
Minnesota	2014-	EGC None included in QAP
Michigan	2013- 2014	Energy Star** LEED
	2014	Energy Star**
Maryland Massachusetts	2014	None Included in QAP
Mou-less J	2014	Energy Star**
Maine	2014	Maine Uniform Building and Energy Code 2009 IECC
		Louisiana Energy Code
		LEED EGC
		2009 IECC
Louisiana	2013	Energy Star
Kentucky	2014	None included in QAP
		Energy Star Kansas Energy Star
Kansas	2015	2006 IECC
		IRC
Iowa	2014	2012 IECC Energy Star
		EGC
		NGBS
	2013	LEED
Indiana	2014- 2015	Energy Star** IRC

North Dakota	2014	LEED
		NGBS
Ohio	2014	2011 EGC
		LEED
Oklahoma	2013	Energy Star**
Oregon	2014	None included in QAP
Pennsylvania	2014	Energy Star
		2009 IECC
Rhode Island	2014	Energy Star
South Carolina	2013	Energy Star
		2006 IECC
South Dakota	2013	Energy Star
Tennessee	2015	2009 IRC
		Energy Star**
Texas	2014	None included in QAP
Utah	2014;	Energy Star
	2015	LEED
		EGC
Vermont	2015	LEED
		Energy Star
		NGBS
Virginia	2014	Energy Star**
		LEED
		Earth Craft
Washington	2012	None included in QAP
Washington DC	2012	2012 IECC
		LEED
		Energy Star
		International Green Construction Code
West Virginia	2013-	Energy Star
	2014	IECC
Wisconsin	2013-	None included in QAP
	2014	
Wyoming	2014	Energy Star
		IRC
		IECC Model Energy Code

Legend:

** Only required to comply with certain aspects of the Energy Star program EGC—Enterprise Green Communities LEED—Leadership in Energy and Environmental Design NGBS—National Green Building Standards IECC— International Energy Conservation Code IRC—

International Residential Code

BEES—Building and Energy Efficiency Standards