



2020 AEP Texas High-Performance Homes Program Guide





Welcome

Welcome to the 2020 AEP Texas High-Performance Homes Program. As a High-Performance homebuilder, you are part of an elite group that is setting the standard for energy-efficient construction in South Texas.

This booklet is designed to provide you with the information you will need throughout your participation in the AEP Texas High-Performance Homes Program. Should you run into any problems or have additional questions, we are here to help you!

AEP Texas has contracted with ICF to implement the High-Performance Homes Program for 2020. ICF is the nation's leading provider of residential new construction programs. ICF is widely recognized for developing and implementing innovative program designs for utilities throughout Texas and the nation. ICF's dedicated program team will work closely with AEP Texas staff to support builders, raters and other market actors achieve success in the AEP Texas High-Performance Homes Program.

Thank you for your participation. We all look forward to working with you to advance home construction and promote energy efficiency in South Texas.

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PROGRAM CONTACT INFORMATION

Melissa Proske, Program Manager

AEP Texas
P.O. Box 2121
Corpus Christi, TX 78403
Email: maproske@aep.com
Office (361) 881-5490

Maci McDaniel, Program Director

ICF
Houston, TX
Email: Maci.McDaniel@icf.com
Office: (713) 445-2006

Garrett Dorsey III, Account Manager

ICF
Corpus Christi, Texas
Email: garrett.dorseyiii@icf.com
Office: (361) 688-2211

Nancy Nuche, Account Manager

ICF
Laredo, TX
Email: Nancy.Nuche@icf.com
Office: (956) 229-1656

Christine Couch, Account Manager

ICF
Houston, TX
Email: Christine.Couch@icf.com
Office: (713) 445-2012



PROGRAM OVERVIEW

The AEP Texas High-Performance Homes Program (the Program) promotes the construction and certification of new ENERGY STAR® certified and high-performance qualified homes. This voluntary program provides financial incentives and other types of assistance to production and custom homebuilders who commit to construct homes within the AEP Texas service territory that meet high-performance specifications. The goal of the Program is to create a sustainable market that leads to:

- A continuous supply of high-performance and ENERGY STAR certified homes.
- Increased consumer demand and perceived value of high-performance and ENERGY STAR certified homes.
- Increased improvements in home energy performance.

To achieve this goal, AEP Texas is committed to increasing consumer awareness of high-performance and ENERGY STAR certified homes and the homebuilders who construct them. AEP Texas is also committed to working in partnership with key market actors who can contribute to the creation of a sustainable market of energy-efficient homes.

Program Benefits

Today's homebuyers are increasingly concerned about rising energy costs. Although any homebuilder can claim to build an energy-efficient home, the AEP Texas High-Performance Homes Program provides you with significant third-party credibility. As a participant in the AEP Texas High-Performance Homes Program, certain benefits and services are available to you.

Eligibility Requirements

Homes must meet several eligibility requirements to qualify for incentives in the AEP Texas High-Performance Homes Program:

1. A home must be within an AEP Texas service territory and served by AEP Texas as evidenced by town, zip code and ultimately a permanent meter number or ESI ID number associated with the home¹.
2. The home has not received incentives from any other AEP Texas energy efficiency program as evidenced by the permanent meter number or ESI ID number submitted through the Program's online system.
3. A home's construction must be completed, and a permanent meter installed by AEP Texas between October 1, 2019 and November 20, 2020 or the program closure date (as determined by the AEP Texas permanent meter set date).
4. The final HERS Rating for the home must be performed and dated between October 1, 2019 and November 20, 2020 or the program closure date.

AEP Texas will pay incentives once validation occurs that each of the above conditions are met, the required data is submitted through the online system and proper documentation is submitted.

¹ Homebuilders are responsible for verifying their electric service provider prior to submitting documentation to request incentives. A permanent meter number must be submitted for each home and will be verified by AEP Texas.



2020 Financial Incentives

AEP Texas will offer incentives to reward homebuilders who deliver homes that meet current program guidelines. The number of incentives awarded to each homebuilder is determined through a competitive bid and scoring process.

The incentive structure is designed to measure kWh savings achieved above the minimum Texas Baseline Reference Home (TBRH). To be eligible for participation, a home must achieve at least a five percent (5%) savings over the 2020 TBRH. Incentives are then paid based on Table 1:

Table 1. 2020 Incentive Structure

2020 Incentive Schedule		
Mandatory Requirements	Tier 1	Tier 2
Required Cooling SEER Value	15	16
Grade 1 Wall Insulation	Yes	Yes
Grade 1 Ceiling Insulation	Yes	Yes
Additional Elective Requirements	2 Mandatory	4 Mandatory
Total Duct Leakage	3	3
Infiltration ACH50	4	4
Average Window SHGC	.25	.24
Average Rated Wall* Sheathing R Value	-	15
High Efficiency Lighting %	-	90%
-OR-		
Innovation Option	ENERGY STAR v3.1	Foam Encapsulated Envelope, R13 walls and R-21 ceiling
Incentive Amount	\$250.00	\$350



Bonus Incentives	
Air Source Heat Pump - 15 SEER	\$250
Air Source Heat Pump - 16 SEER	\$350
ENERGY STAR Smart Thermostat	\$25
* Bonus incentives must be allocated and approved.	

For Tier 1, a home must meet the mandatory measures: 15 SEER AC and Grade 1 wall and ceiling insulation installation and must meet two (2) out of three (3) of the above code elective requirements.

An optional method to comply with Tier 1 is with ENERGY STAR v3.1 certification or by installing complete foam envelope encapsulation. The mandatory requirements must still be met.

For Tier 2, homes must include 16 SEER AC systems and have the same mandatory Grade 1 wall and ceiling insulation installation requirements and requires four (4) out of five (5) elective requirements to be met.

An optional Innovation method to comply with Tier 2 is with ENERGY STAR v3.1 certification or by installing complete foam envelope encapsulation. The mandatory requirements must still be met.

Compliance verification for each individual tier-related measure requirements will be done using data extracted from the **Confirmed** Ekotrope file supplied with the incentive request. Tier-related measure specific notes:

- Required Cooling SEER Value: will be determined by the highest SEER installed of the cooling systems. SEER can be determined with either a matched condenser-coil (RCU-A-C), or a matched condenser-coil-blower (RCU-A-CB) type AHRI certificate, or equivalent. Corresponding Ekotrope energy model must match the AHRI SEER value.
- Grade 1 Wall Insulation and Grade 1 Ceiling insulation: all assemblies must be Grade 1 and defined as such in the energy model.
- Total Duct Leakage: the sum of all installed duct systems' tested CFM25 value, divided by one-one hundredth of the conditioned floor area. Only the units "CFM @ 25 Pascals" can be accepted.
- Infiltration ACH50: within Ekotrope, Heating and Cooling Season Infiltration Value must both be recorded in the energy model and only the units "CFM @ 50 Pascals" or "ACH @ 50 Pascals" can be accepted. Raters must follow the RESNET 380 Standard to test homes for envelope leakage, duct leakage, mechanical ventilation, and duct system air flows.
- Average Window SHGC: Glazing must be NFRC tested and RESNET on-site inspection protocol should be followed to confirm the measure. At least 50% of all glazing modeled within the energy model must exceed the SHGC measure criteria.
- Average Rated Wall + Sheathing R Value: will be determined by adding the area-weighted average R-Value of all "Frame Cavity Insulation R-Value" plus the highest R-value that continuously sheaths a minimum of 60% of all walls modeled in the energy model.



- High Efficiency Lighting %: interior lighting percentage must be greater than or equal to 90%. This is the ratio of total Qualified Interior Lights Fixtures over total Qualified Interior Light Locations.
 - Light Fixture – A complete lighting unit consisting of a lamp or lamps, and ballasting (when applicable) together with the parts designed to distribute the light, position and protect the lamps, and connect the lamps to the power supply. For built-in valence lighting, strings of low-voltage halogens, and track lights, each individual bulb shall count as a fixture.
 - Qualifying Light Fixture – A light fixture located in a Qualified Light Fixture location and comprised of any of the following components: a) fluorescent hard-wired (i.e. pin-based) lamps with ballast; b) screw-in compact fluorescent bulb(s); or c) light fixture controlled by a photocell and motion sensor.
 - As it applies to the definition of Qualifying Light Fixture, LED lights with a luminous efficacy equaling or exceeding 50 lumens/watt shall be considered equivalent to CFLs.
 - Qualifying Light Fixture Locations – For the purposes of rating, those light fixtures located in kitchens, dining rooms, living rooms, family rooms/dens, bathrooms, hallways, stairways, entrances, bedrooms, garage, utility rooms, home offices, and all outdoor fixtures mounted on a building or pole. This excludes plug-in lamps, closets, unfinished basements, and landscape lighting.
- Tier 1 & 2 Innovation Option - ENERGY STAR v3.1, must be demonstrated within the energy model, completing all checklist, and perdenialed AC contractor.
- Tier 1 & 2 Innovation Option - Foam Encapsulation, to receive credit for this Innovation Option, the following conditions must be met:
 - No ceiling types can be modeled as "Between Interior and: Unconditioned Attic"
 - All ducts must be located and modeled within Conditioned Space

Additional details on program incentives are listed below.

- Incentive Payments are subject to the submission of required documentation, cooperation with random QA/QC (Quality Assurance/Quality Control) verification inspections, and a completed database entry for Program review. Required documentation includes:
 - Completed database entries for each home/unit address.
 - Uploaded address-specific Ekotrope file.
 - Uploaded Fuel Summary Report generated using the Program supplied 2020 Texas Baseline Reference Home as the User Defined Reference Home for each home/unit.
- Applicable to all homes:
 - All homes must meet the minimum energy code applicable to where it is constructed in addition to the Program requirements.
 - All homes must achieve a minimum energy savings of five percent (5%) kWh savings over the 2020 Texas Baseline Reference Home.
 - All homes must complete the “Fully-Aligned Air Barriers” and “Air Sealing” sections of the most current revision of the ENERGY STAR Thermal Enclosure System Rater Checklist.



- All homes must perform **both** Blower Door Infiltration testing and Total Duct Leakage duct testing. It is recommended all homes perform Leakage to the Outside (LTO) testing.
- All evaporators and condensing units shall be properly matched as demonstrated by an AHRI certificate.
- Homes must be submitted for an incentive payment within sixty (60) days of the final certification. Homes submitted to the Program over sixty (60) days beyond the Certification date may not receive payment.
 - Homes returned for corrections have thirty (30) days to be resubmitted for payment from the date of return.
- Applicable to ENERGY STAR certified homes:
 - ENERGY STAR homes must successfully complete the applicable revision of the ENERGY STAR requirements, including:
 - Rater Design Review Checklist and Rater Field Checklist
 - HVAC Design Report
 - HVAC Commissioning Checklist
 - Water Management System Builder Requirements
- Upon request, a copy of the completed and signed inspection forms and checklists shall be made available to program staff within three (3) business days.
- Multi-family incentives are paid at fifty percent (50%) of single-family incentive structure. Multi-family are defined as attached residential units with greater than two units per building and three stories or less. All units must be individually metered. Customized incentive packages may be required dependent on project size and other factors.

2020 Bonus Incentives

- The Program will be incentivizing builders who switch from electric resistance furnaces to heat pumps or who increase the SEER level of their existing heat pumps.
- Additional incentives are available for installing an ENERGY STAR Smart Thermostat as listed on the www.energystar.gov website.
- These incentives will be allocated to each builder during the application process.

PROGRAM RESPONSIBILITIES

Each market actor will have their own set of responsibilities to participate in the Program to make sure reporting and documentation requirements are met. The Program expects homebuilders, raters, and HVAC contractors to work collaboratively with one another and ICF to address any challenges experienced during your participation.

Performance Milestone Date Requirements

To qualify for Incentive Payments, homebuilder must meet the following Performance Milestone Date Requirements seen in Table 2:



Table 2. Milestone Dates

Date	Performance Milestone Requirement
May 1, 2020	At least 20% of total committed homes must be invoiced and/or submitted on the Program's online system; homebuilder must have selected at least one preferred HERS Rater on the online system.
July 3, 2020	At least 65% of total committed homes must be invoiced and/or submitted on the Program's online system
October 2, 2020	At least 85% of total committed homes must be invoiced and/or submitted on the Program's online system
November 20, 2020	100% of total committed homes must be invoiced and/or submitted on the Program's online system

If homebuilder fails to meet the performance date requirements, ICF may withdraw some or all of the Incentive Payments for homes for which documentation has not yet been submitted. If ICF withdraws potential incentive payments it may, in its sole discretion, allow homebuilder to reclaim a portion of any withdrawn incentive payments if homebuilder exceeds future Performance Milestone Date Requirements.

Homebuilder Participation Requirements

Participating homebuilders will receive incentives for each qualifying home submitted to the Program. The amount of incentives is based on the combination of energy-efficient measures included in each qualifying home. It is the homebuilder's primary responsibility to design, build, and market homes that comply with program requirements. In meeting these responsibilities, each participating homebuilder is required to:

- **Sign EPA Agreement:** Homebuilders participating in the Program, and wishing to build and market ENERGY STAR qualified homes, must have submitted a signed Environmental Protection Agency ("EPA") "ENERGY STAR Partnership Agreement" and must remain on active status with EPA's voluntary program during the term of the Program (www.energystar.gov).
- **Acquire Building Permits:** Homebuilders are responsible for obtaining building permits, if required by the applicable municipality, for each home for which an Incentive Payment is requested.
- **Upload starts to database:** Homebuilder's home starts must be uploaded to the Program database within forty-five (45) days of attaining the building permit. Incentive requests not meeting this requirement may not be eligible for incentives. Repetitive failure to meet this requirement may additionally result in reallocation of funds.
 - This requirement will be waived for the first sixty (60) days of the program beginning with the launch of the database.
- **Estimate Home Forecasts:** Homebuilder agrees to provide ICF with good faith forecasts of the number of eligible homes in the AEP Texas service territory that homebuilder expects to



complete by November 20, 2020. Homebuilder also agrees to provide ICF with a list of eligible homes and planned communities during each Performance Milestone. ICF will use this information to help confirm communities are within AEP Texas' service territory and, if necessary, reallocate funds.

- Accommodate Sales Training & Presentation: Homebuilder agrees to allow ICF to meet with its salespersons at a time designated by homebuilder regarding high-performance homes and the benefits thereof. Homebuilder agrees to make information regarding high-performance homes available to its customers by displaying high-performance home information provided by ICF and approved by homebuilder in a location in homebuilder's sales offices as determined by homebuilder.
- Submit Documentation: Homebuilder agrees to provide documentation as outlined in the following section titled "Reporting Requirements, Required Data".
- Use RESNET Approved HERS Rater: Homebuilder agrees to use a RESNET approved HERS Rater(s) to provide testing on its program homes and a HERS Rating Provider(s) to prepare accurate, site specific HERS ratings with Ekotrope software. The homebuilder's chosen HERS Rater(s) must be registered with the Program in order to be eligible to submit documentation on behalf of the homebuilder. HERS Raters are responsible for providing the address-specific Confirmed Ekotrope file and all required data inputs in the "Rating Information" section of the database. Homebuilders should coordinate with their HERS Rater to insure all completed homes are invoiced each month to be eligible for incentive payments.

HERS Rater Participation Requirements

HERS Raters are hired by homebuilders to provide the necessary services to complete plan analysis, inspect new homes, and ensure energy-efficient requirements and specifications are met as required by the AEP Texas High-Performance Homes Program, ENERGY STAR or a homebuilder's savings goals. HERS Raters operate under the guidance of HERS Rating Providers, accredited through RESNET (www.resnet.us), and provide third-party inspections, testing, and verification of energy-efficient measures installed in residential new homes. The rater's primary responsibility is to work with homebuilders to facilitate the construction of ENERGY STAR and high-performance homes that meet the performance requirements for the AEP Texas High-Performance Homes Program. Rater responsibilities include:

- Providing design assistance and performing plan analysis to ensure homes meet program criteria.
- HERS Raters should coordinate with and assist homebuilders to generate the homebuilder's monthly home production report.
- Reviewing HVAC equipment sizing calculations and providing homebuilder/contractor assistance in the execution of sizing documentation when necessary.
- Performing pre-drywall inspections including at minimum: air sealing and air barrier inspections, and final testing including at minimum: envelope infiltration and total duct leakage, to verify each home's performance. Leakage to the outside is recommended by the Program.
- Ensuring each home meets the minimum program requirements.
- Providing the address-specific Confirmed Ekotrope file, architectural plan and any other requested documentation for the randomly selected QA/QC addresses to be inspected by the AEP Texas High-Performance Homes Program Team.



- HERS Raters must provide ICF with rough and final inspection schedules pertaining to participating homes within the Program's service area on, at a minimum, a weekly basis - although daily is preferred. Inspection schedules should be emailed to ICF unless program staff has access to an online source for schedule information.

HVAC Contractor Participation Requirements

HVAC Contractors are integral to the overall comfort of a home's occupants and to the energy performance of ENERGY STAR and high-performance homes. Program requirements include standards for the design, sizing (capacity), and installation of HVAC systems that is in accordance with ACCA Manual J8 standards. The HVAC contractor is critical to ensuring that industry-accepted standards are maintained. HVAC contractors should work with their homebuilders to evaluate cost effective HVAC options and/or efficiency improvements that will improve the overall comfort and energy efficiency (lower HERS Index and greater kWh savings) of the home.

Contractors may be required to submit HVAC condenser and coil model and serial numbers, along with AHRI certification information at the request of program staff.

REPORTING REQUIREMENTS REQUIRED DATA

AEP Texas is required to collect certain data from homes that are delivered to the High-Performance Home Program. This data is usually collected by the HERS Rater during the final performance testing of the home. Homebuilders should work closely with their HERS Rater to ensure this information is submitted to AEP Texas. Financial incentives will only be paid after AEP Texas receives the required information and verifies its accuracy.

To receive incentives from the Program:

1. All required data for each home must be entered into the Program's online database.
2. The HERS Rater must upload an address specific Ekotrope file and Fuel Summary Report generated by using the Program's 2020 Texas Baseline Reference Home UDRH.

Please Note: HERS Raters and homebuilders are strongly encouraged to check meter numbers as early as possible in the testing process to verify that the home is within the AEP Texas electric service territory, to avoid submitting homes that are not in the AEP Texas electric service territory.

Homebuilders

Homebuilders, or their assigned HERS Rater, must report the following information into the online system directly or via the Program supplied upload spreadsheet for all homes:

- Community Name, if applicable
- Street Address, note: for successful uploads street suffix abbreviations must be in accordance with the USPS addressing standards:
http://pe.usps.gov/text/pub28/28apc_002.htm
- City, ZIP Code, State, County
- Start Date/Permit Date
- Applicable Energy Code version
- Square Footage, Number of Floors



- Plan Name/ID Number – (Including Elevation and Options)
- HERS Rater

HERS Raters

HERS Raters will be required to adhere to address specific modeling guidelines and tier specific reporting requirements when submitting a home for participation in the Program.

Address-specific modeling

- Energy models submitted to the Program must be created in Ekotrope or most current version – adoption should occur within 60 days of the release of a new version.
- Front orientation is measured onsite and windows are rotated within energy models to reflect the as-built orientation.
- As-built options affecting conditioned floor area and proper window orientation and sizing, must be reflected in the confirmed energy model.
- Mechanical ventilation shall be modeled as installed and commissioned.

In addition to the requirements listed above, HERS Raters must report the following information into the online system for all homes:

- Reference Home kWh and As-Designed kWh
- Certified Date
- Heating Type
- If ENERGY STAR certified
- QA documents, as requested

HVAC Contractors

HVAC Contractors may be requested to provide the following information

- HVAC Checklists
- AHRI Reference Number
- SEER (for all units in the Home)
- HSPF, if applicable for heat pumps
- Coil and Condenser Model Number
- Coil and Condenser Serial Number
- Furnace Model Number
- System capacities

QUALITY ASSURANCE / QUALITY CONTROL

On behalf of AEP Texas, ICF will implement a Quality Assurance and Quality Control (QA/QC) program. The QA/QC program provides another layer of assurance to homebuilders that their homes meet ENERGY STAR and/or the Program's high-performance requirements and that HERS Raters are following RESNET standards. All results will be shared with homebuilders during the year. With each successive year, the QA/QC program has identified a new set of homebuilder and rater issues. As issues and circumstances are monitored, evaluated, corrected, and resolved each year, the following year presents a set of entirely new circumstances, challenges, and issues. This in part may be due to updated changes in climate zone reconfiguration, code changes, and/or Ekotrope version changes. However, sometimes the changes made to the QA/QC program are due to improvements to existing homebuilder methodologies. The close monitoring of the following encourages each program participant to become more proficient in their processes to achieve higher standards by implementing best practices:

- Homebuilder construction practices
- Subcontractor material usage and installation procedures
- Rater inspection, testing, and reporting accuracy

Each year, ICF has added validity to the kW/kWh savings reports that AEP Texas submits to the Public Utilities Commission of Texas (PUCT) by doing the following:

- Conducting extensive analysis of homebuilder plans and rater Ekotrope files of homes in the Program.
- Taking corrective action regarding address specific modeling, performance test results, and other discrepancies.
- Providing monthly updates and an end of year report to AEP Texas.

ICF will be enhancing our QA/QC design for the Program by implementing onsite field verification in the new homes program to assure consistent results. We will work with raters and homebuilders on scheduling onsite verification at different stages of construction and attending final inspections to perform QA/QC both with the rater present as well as post inspections after final verification. This will provide a higher level of program integrity and positively contribute to reporting results to the PUCT. Raters will be required to submit weekly inspection schedules to program staff to allow for scheduling of onsite QA/QC visits.

QA/QC Requirements

ICF will inspect each project file within the Program database for accuracy and verification that the Ekotrope file is included. ICF will also conduct field QA/QC that will include random pre-sheetrock inspections and final testing on completed homes.

After a field inspection is complete, ICF will compare:

- The material specifications designated with the Ekotrope project file submitted to the Program with the actual materials installed in the home.
- The actual diagnostic testing results submitted by the HERS Rater with results of the QA/QC testing.
- ICF will ensure energy models are address-specific and accurately reflect all site-specific conditions, including: options, facades, orientations, window additions/deletions,



overhangs, percentage of high efficacy lighting fixtures, and mechanical systems capacities/efficiencies are all correctly modeled.

All QA/QC inspections will be documented along with pictures taken of the project site. HERS Raters will be notified via email of any major discrepancies found and they will be subject to documented corrective action.

Corrective Action Procedures

The goal of the QA/QC program's corrective action plan is to help achieve continuous improvements in the AEP Texas High-Performance Homes Program. The results and findings of the QA/QC program will be shared with participating homebuilders and raters as needed during 2020. Below are the examples of the corrective action steps implemented throughout the program year:

- 1st Offense: The HERS Rating company and the builder will be notified and counseled by ICF program account managers.
- 2nd Offense: The builder and the HERS Rating company will again be notified and the builder incentive for homes not meeting the requirement will be forfeited.
- 3rd Offense: The determination will be made by the Program depending on the circumstances and may include the HERS Rating company and/or builder being suspended from the Program for the remainder of the Program year.

In the event that a home has already been paid on but does not pass the QA/QC process, the homebuilder will either be required to repay the incentive to the Program or submit an additional home that qualifies for the same incentive amount as a replacement for the failed home, with no incentive paid for the replacement home.

PROGRAM IMPLEMENTATION

The AEP Texas High-Performance Homes Program can provide the following support to program participants upon request:

- Account Managers are available to guide homebuilder partners through the lifecycle of the Program.
- Plan reviews and path to performance consulting to determine the most appropriate, cost effective measures needed to build ENERGY STAR certified and high-performance homes.
- Support for homebuilder marketing staff to help successfully integrate high-performance into corporate messaging.

Training

Energy Efficiency Learning Center is a new training online platform that participants will be given access to. The Energy Efficiency Learning Center website will provide stakeholders with:

- Industry best practices including technical training workshops focusing on energy-efficient construction best practices
- ENERGY STAR Version 3.1 training including sales training courses on how to incorporate ENERGY STAR and high-performance messages into the sales process
- 2015 IECC compliance training
- Program-specific trainings to help facilitate onboarding new stakeholders with database trainings

Through the Energy Efficiency Learning Center website, AEP Texas will provide homebuilders with the training necessary to promote the ENERGY STAR brand and other energy-efficient program branding, communicate the associated benefits of buying an ENERGY STAR certified or high-performance home, and improve their homes' energy performance.

Participating homebuilders are encouraged to take advantage of these resources to capitalize on the financial and marketing benefits associated with building ENERGY STAR certified and high-performance homes.

Program Outreach and Advertising

AEP Texas will sponsor an outreach and advertising campaign on behalf of homebuilders participating in the AEP Texas High-Performance Homes Program. The campaign will include direct outreach to consumers, print and online advertising, and marketing materials for use at model homes.



ENERGY STAR CERTIFICATION REQUIREMENTS

For a home to earn the ENERGY STAR certification, it must meet the Environmental Protection Agency's (EPA) strict guidelines for energy efficiency. An accredited HERS Rater must test the home's energy performance using an approved simulation program. The HERS Rater then completes on-site inspections and diagnostic tests. The result is a HERS Index on a scale of 1-100. All ENERGY STAR certified homes in Texas must achieve the required HERS Index or lower and meet specific duct leakage, appliance and Checklist requirements. Once certified, a rating provider can issue the home's ENERGY STAR certificate and place the label on the home's breaker box. Please visit <http://www.energystar.gov/> for more information about the national ENERGY STAR Homes Program.

Step-by-Step Guide to ENERGY STAR Home Certification

1. Fill out the Online Partnership Agreement with the National ENERGY STAR Homes Program. The agreement is located online at the following Web site: http://www.energystar.gov/index.cfm?c=bldrs_lenders_Raters.nh_join
2. Select an accredited HERS Rater/rating provider.
3. Work with your HERS Rater to identify the energy efficiency measures needed to meet or exceed ENERGY STAR specifications.
4. Build homes according to the measures you have selected.
5. Determine the best testing methodology to certify your homes. The EPA allows a limited number of verification options from which you may choose.
6. Conduct on-site inspections and home performance testing.
7. Obtain an ENERGY STAR label and certificate from your HERS Rater for each certified home.

ENERGY STAR® CERTIFIED NEW HOME

Builder Name: Gambie Builders
Permit Date/Number: 4 April 2011
Home Address: 1310 L Street, Washington DC 20005

Rating Company: G Force Testing
Rater Identification Number: 2345678
Rating Dates: 6 July 2011
Version: 3.0

Standard Features of an ENERGY STAR Certified New Home
 Your ENERGY STAR certified new home has been designed, constructed, and independently verified to meet rigorous requirements for energy efficiency set by the U.S. Environmental Protection Agency (EPA), including:

Thermal Enclosure System A complete thermal enclosure system that includes comprehensive air sealing, quality-installed insulation and high-performing windows to deliver improved comfort and lower utility bills. Air Infiltration Test: 4 ACH50 Primary Insulation Levels: Ceiling: R-30 Floor: R-10 Wall: R-19 Slab: R-6 Primary Window Efficiency: U-Value: 0.60 SHGC: 0.27	Water Management System A comprehensive water management system to protect roofs, walls, and foundations. Flashing a drainage plane, and site grading to remove water from the roof to the ground and then away from the home. Water-resistant materials on below-grade walls and underneath slabs to reduce the potential for water entering into the home. Management of moisture levels in building materials during construction.
Heating, Cooling, and Ventilation System A high-efficiency heating, cooling system, and ventilation system that is sized and installed for optimal performance. Total Duct Leakage: 6 CFM25 per 100 sq. ft. Duct Leakage to Outdoors: 4 CFM25 per 100 sq. ft. Primary Heating (System Type • Fuel Type • Efficiency): Fuel-Fired Hydronic Distribution • Natural Gas • 90 AFUE Primary Cooling (System Type • Fuel Type • Efficiency): Ground-source Heat Pump • Electric • 14.5 SEER	Energy Efficient Lighting and Appliances Energy efficient products to help reduce utility bills, while providing high-quality performance. ENERGY STAR Qualified Lighting: 75% ENERGY STAR Qualified Appliances and Fans: Refrigerators: 1 Dishwashers: 1 Ceiling Fans: 4 Exhaust Fans: 3 Primary Water Heater (System Type • Fuel Type • Efficiency): Electric Resistance Heater • Electric • 0.94 EF

HERS Index

Zero Energy Home Reference Home Existing Home

Less Energy More Energy

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This Home

The certificate provides a summary of the major energy efficiency and other certification features that contribute to this home earning the ENERGY STAR, including its Home Energy Rating System (HERS) score, an independent energy-independent inspection and verification performed by a trained professional. The Home Energy Rating System is a nationally-recognized uniform measurement of the energy efficiency of homes.

How do other homes compare? Multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the performance value is shown. Also, homes may be certified to earn the ENERGY STAR using a sampling protocol. Only one home is randomly selected from a set of homes for representative inspection and testing. In such cases, the measured score is not the actual score and is intended to meet or exceed the value presented on this certificate. The actual values for your home may differ, but offer equivalent or better performance. The certificate was printed using 100% recycled paper (30% post-consumer waste).

Learn more at www.energystar.gov/homeperformance



Promoting and Selling ENERGY STAR Homes

ENERGY STAR is a national, voluntary program designed to identify, promote, and increase the use of energy-efficient products to reduce greenhouse gas emissions. Established by the U.S. Environmental Protection Agency in 1992, the ENERGY STAR brand now appears in dozens of product categories for the home and workplace, as well as on new homes. The ENERGY STAR brand provides consumers an easy way to recognize energy-efficient products and homes.

Promoting your partnership with ENERGY STAR demonstrates your commitment to constructing energy-efficient homes. ENERGY STAR certified homes provide consumers with a more comfortable lifestyle for less money. Consumers encounter the ENERGY STAR brand every day on computer monitors, appliances, DVD players, and much more. Make sure they know you are selling a brand they know and trust.

In order to use the ENERGY STAR logos and promotional marks, homebuilders must participate in and partner with the national ENERGY STAR Program. Complete the national application and submit to EPA. Homebuilders must review the logo guidelines located at <http://www.energystar.gov/> before using the ENERGY STAR logos.

Suggested ENERGY STAR Branding and Messaging demonstrate your partnership with a trusted and recognized government symbol. Use the ENERGY STAR logo in marketing and sales materials.

Point-of-Sale Marketing

- Display ENERGY STAR branded yard signs at your ENERGY STAR home.
- Hang an ENERGY STAR branded flag at your model home.
- Affix ENERGY STAR window clings on the front window of your model home.
- Place an ENERGY STAR plaque or door mat at the threshold of your model home.
- Include the ENERGY STAR logo on your sales sheets in model homes.

Advertising and Public Relations

- Include the ENERGY STAR logo in advertisements and Web sites.
- Identify yourself as an ENERGY STAR Partner in your radio advertisements.
- Promote your affiliation with ENERGY STAR in press releases.

AEP Texas Website

Once at the website, consumers will find information about ENERGY STAR certified homes, and the homebuilders in their area who are constructing certified homes in the AEP Texas High-Performance Homes Program in 2020. All participating homebuilders will be listed, along with contact information and website address, at <http://southtxsaves.com>. All participating ENERGY STAR homebuilders will have available upon request ENERGY STAR promotional items for use at model homes. ENERGY STAR and AEP Texas High-Performance Home branded flyers and doormats.

Additionally, marketing materials are available through the National ENERGY STAR Program as well as the AEP Texas High-Performance Homes Program. To obtain program materials, please contact a member of the program staff. To obtain ENERGY STAR materials, visit <http://www.energystar.gov/> and click on Partner Resources. A variety of publications are available for ENERGY STAR Partners, including EPA's ENERGY STAR New Homes brochure. Brochures and posters describing energy-efficient HVAC systems, duct sealing, and other topics are available as well.



A. AEP TEXAS SERVICE TERRITORY ZIP CODE LIST

This list is provided only as a general guide to the AEP Texas service territory. Some addresses within these ZIP codes may not be within the territory.

City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
Abram	78572	Barksdale	78828	Brownsville	78520	Corpus Christi	78416
Abram	78576	Bay City	77414	Brownsville	78521	Corpus Christi	78417
Agua Dulce	78330	Bayside	78340	Brownsville	78526	Corpus Christi	78418
Alamo	78516	Bayside	78377	Brownsville	78566	Corpus Christi	78419
Alamo	78537	Bayside	78393	Brownsville	78575	Corpus Christi	78470
Alamo	78589	Bayview	78566	Brownsville	78586	Corpus Christi	78471
Alice	78332	Beeville	78102	Bruni	78344	Corpus Christi	78473
Alleyton	78934	Beeville	78107	Bruni	78357	Corpus Christi	78474
Alleyton	78935	Belmont	78604	Camp Wood	78022	Corpus Christi	78475
Alton	78539	Belmont	78629	Camp Wood	78828	Corpus Christi	78476
Alton	78572	Benavides	78332	Camp Wood	78833	Corpus Christi	78478
Alton	78573	Benavides	78341	Carrizo Springs	78834	Cotulla	78014
Alton	78574	Berclair	77963	Catarina	78836	Crystal City	78339
Aransas Pass	78336	Berclair	78107	Charlotte	78011	Crystal City	78839
Aransas Pass	78362	Big Foot	78005	Charlotte	78026	Da Costa	77901
Asherton	78557	Big Wells	78830	Christine	78011	Da Costa	77905



City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
Asherton	78827	Bishop	78343	Christine	78012	Del Rio	78840
Asherton	78834	Blessing	77419	Columbus	78934	Del Rio	78843
Austwell	77950	Blewett	78801	Combes	78535	Derby	78017
Austwell	78377	Bloomington	77951	Combes	78550	Derby	78061
Banquete	78339	Bluetown	78559	Comstock	78837	Devine	78005
Banquete	78380	Bluetown	78586	Concepcion	78341	Devine	78016
Bracketville	78832	Combes	78552	Concepcion	78349	Dilley	78017
Bracketville	78840	Comstock	78832	Corpus Christi	78347	Donna	78516
Donna	78537	Elsa	78558	Glidden	78943	Hidalgo	78589
Driscoll	78351	Elsa	78566	Goliad	77963	Hillje	77437
Eagle Lake	77434	Elsa	78596	Granjeno	78572	Indian Lake	78566
Eagle Lake	78933	Encinal	78019	Gregory	78336	Inez	77968
Eagle Pass	78852	Encino	78353	Gregory	78359	Ingleside	78336
Edcouch	78538	Escobares	78582	Gregory	78374	Ingleside	78362
Edcouch	78549	Escobares	78584	Gregory	78390	Jourdanton	78026
Edinburg	78537	Falfurrias	78353	Gregory	78539	Karnes City	78118
Edinburg	78539	Falfurrias	78355	Gruella	78548	Kenedy	78119
Edinburg	78540	Falfurrias	78357	Guadalupe	77901	Kingsbury	78638
Edinburg	78541	Falfurrias	78361	Guadalupe	77905	Kingsville	78363
Edna	77957	Freer	78355	Hargill	78539	Knippa	78801
Edna	77971	Freer	78357	Hargill	78549	Knippa	78870
Edroy	78352	Fronton	78584	Harlingen	78522	La Blanca	78539
El Campo	77437	Fulton	78358	Harlingen	78535	La Blanca	78543



City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
El Cenizo	78040	Fulton	78382	Harlingen	78550	La Blanca	78558
El Cenizo	78046	Ganado	77962	Harlingen	78551	La Casita	78582
El Indio	78860	Garciasville	78547	Harlingen	78552	La Feria	78559
El Maton	77440	Garciasville	78548	Harlingen	78553	La Feria	78569
Elsa	78362	Garciasville	78582	Harlingen	78559	La Feria	78570
Elsa	78538	Garwood	77442	Harlingen	78586	La Grulla	78548
Elsa	78539	George West	78022	Havana	78572	La Grulla	78582
Elsa	78541	Gillett	78116	Hebbronville	78361	La Grulla	78754
Elsa	78543	Glidden	78934	Hidalgo	78557	La Joya	78560
La Joya	78576	Long Mott	77972	McAllen	78503	Moore Field	78541
La Pryor	78872	Long Mott	77979	McAllen	78504	Moore Field	78572
La Rosita	78582	Los Ebanos	78565	McAllen	78539	Moore Field	78574
La Rosita	78584	Los Fresnos	78520	McAllen	78557	Moore Field	78576
La Villa	78562	Los Fresnos	78566	McAllen	78572	Nada	77442
La Villa	78570	Los Fresnos	78575	McCaulley	78368	Nada	77460
Laguna Heights	78578	Los Fresnos	78586	Mercedes	78501	Natalia	78016
Laguna Vista	78578	Los Indios	78567	Mercedes	78570	Natalia	78052
Lake City	78368	Louise	77455	Mercedes	78596	Natalia	78059
Lakeside	78368	Lozano	78563	Midfield	77458	Nixon	78140
Lamar	78382	Lozano	78583	Millett	78014	Nordheim	78141
Laredo	78040	Luling	78638	Mirando City	78369	Normandy	78852



City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
Laredo	78041	Luling	78644	Mission	78501	Normanna	78142
Laredo	78042	Luling	78648	Mission	78504	Oakville	78060
Laredo	78043	Lyford	78569	Mission	78541	Odem	78370
Laredo	78045	Lytle	78052	Mission	78560	Odem	78380
Laredo	78046	Markham	77414	Mission	78572	Oilton	78371
Laredo	78576	Markham	77456	Mission	78573	Olmito	78520
Laureles	78566	Matagorda	77414	Mission	78574	Olmito	78521
Laureles	78586	Matagorda	77456	Mission	78576	Olmito	78566
Leakey	78873	Matagorda	77457	Monte Alto	78538	Olmito	78575
Leesville	78122	Mathis	78368	Monte Alto	78543	Olmito	78586
Leming	78050	Matthews	77434	Moore	78057	Orange Grove	78372
Leming	78064	McAllen	78501	Moore Field	78539	Palacios	77465
Palm Valley	78550	Placedo	77977	Ramirez	78361	Runge	78151
Palm Valley	78552	Pleasanton	78050	Ramirez	78376	Sabinal	78881
Palmhurst	78572	Pleasanton	78064	Rancho Viejo	78575	San Benito	78520
Palmhurst	78573	Point Comfort	77978	Raymondville	78580	San Benito	78586
Palmhurst	78574	Port Aransas	78373	Realitos	78376	San Carlos	78539
Palmview	78572	Port Isabel	78578	Refugio	78363	San Carlos	78541
Palmview	78574	Port Lavaca	77979	Refugio	78377	San Diego	78332
Palmview	78576	Port Mansfield	78580	RicaRdo	78363	San Diego	78384



City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
Pawnee	78119	Port Mansfield	78598	Rio Bravo	78040	San Juan	78577
Pawnee	78145	Portland	78359	Rio Bravo	78046	San Juan	78589
Pawnee	78415	Portland	78374	Rio Grande City	78548	San Patricio	78352
Pearsall	78061	Poteet	78065	Rio Grande City	78572	San Patricio	78368
Penitas	78560	Premont	78375	Rio Grande City	78582	San Patricio	78380
Penitas	78572	Primera	78535	Rio Hondo	78583	San Perlita	78580
Penitas	78574	Primera	78550	Rios	78349	San Ygnacio	78067
Penitas	78576	Primera	78551	Riviera	78379	Sandia	78383
Pernitas Point	78383	Primera	78552	Robstown	78380	Santa Maria	78559
Petronila	78380	Progreso	78579	Rockport	78336	Santa Maria	78592
Petronila	78406	Progreso	78596	Rockport	78358	Santa Monica	78569
Petronila	78415	Progreso Lakes	78579	Rockport	78382	Santa Monica	78580
Pettus	78146	Progreso Lakes	78596	Rockport	78390	Santa Rosa	78593
Pharr	78577	Quemado	78877	Rocksprings	78880	Seadrift	77983
Pharr	78589	Rabb	78380	Roma	78582	Sebastian	78594
Placedo	77905	Ramireno	78361	Roma	78584	Seco Mines	78852
Sejita	78376	Sullivan City	78548	Tulsita	78119	Wadsworth	77483
Seven Sisters	78357	Sullivan City	78565	Tynan	78391	Weesatche	77993



City	ZIP Code	City	ZIP Code	City	ZIP Code	City	ZIP Code
Sinton	78387	Sullivan City	78572	Uvalde	78801	Weslaco	78537
Skidmore	78389	Sullivan City	78595	Uvalde	78802	Weslaco	78596
Smiley	78159	Taft	78390	Victoria	77901	Westhoff	77994
Sonora	76950	Three Rivers	78071	Victoria	77904	Winter Haven	78839
South Padre Island	78578	Tienditas	78361	Victoria	77905	Woodsboro	78393
South Padre Island	78597	Tivoli	77990	Victoria	77951	Yorktown	78164
Spofford	78877	Tuleta	78162	Violet	78380	Zapata	78076



B. PROGRAM RESOURCES

- AEP TEXAS High-Performance Homes Program Website
<http://www.southtxsaves.com>
- AEP TEXAS Energy Efficiency Programs
<https://www.aeptexas.com/save/residential/programs/>
- National ENERGY STAR Program
<http://www.energystar.gov>
- National ENERGY STAR v3.x Guidelines
https://www.energystar.gov/index.cfm?c=bldrs_lenders_raters.nh_v3_guidelines
- Residential Energy Services Network
<http://www.resnet.us>



