



2020

# High-Performance Homes Program Guide

Texas-New Mexico Power





## **Welcome**

Welcome to the 2020 Texas-New Mexico Power (TNMP) 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 Texas.

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

TNMP 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 TNMP staff to support homebuilders, raters and other market actors achieve success in the TNMP 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 Texas.

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## PROGRAM OVERVIEW

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The TNMP 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 TNMP 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, TNMP is committed to increasing consumer awareness of high-performance and ENERGY STAR certified homes and the homebuilders who construct them. TNMP 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 TNMP High-Performance Homes Program provides you with significant third-party credibility. As a participant in the TNMP 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 TNMP High-Performance Homes Program:

- A home must be served by TNMP in a TNMP service territory as evidenced by town, zip code and ultimately a permanent meter number or ESI ID number associated with the home<sup>1</sup>
- The home has not received incentives from any other TNMP energy efficiency program as evidenced by the permanent meter number or ESI ID number submitted through the Program's online system
- A home's construction must be completed between September 1, 2019 and November 30, 2020
- If applicable, the final HERS Rating for the home must be performed and dated between October 1, 2019 and November 30, 2020
- The home must exceed the 2015 IECC energy code requirements by 5% as shown in final the Ekotrope savings calculation

TNMP will only pay incentives after validation that each of the above conditions are met and the required data and documentation is submitted through the online system.

### 2020 Financial Incentives

TNMP will offer incentives to reward homebuilders who deliver homes that meet current program guidelines. This year, the Program will offer incentives to homebuilders through two compliance

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<sup>1</sup> 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 TNMP.



pathways. The first, [Whole House Path](#), is a program designed for builders that install 16+ SEER and work with a HERS Rater to submit an Ekotrope file that meets program requirements ([See Whole House Path section](#)) systems. The second, [HVAC Midstream Path](#), is a program designed for builder that install 15+ SEER HVAC systems that do not qualify for the Whole House Path program requirements ([See Midstream Path section](#)).

The number of incentives awarded to each homebuilder is determined through a competitive bid and scoring process determined at [Performance Milestones](#).

## Whole House Path

In 2020, builders that work with a HERS certified rater will have the option to pursue one of two tiers, Tier 1 or Tier 2, under the Whole House Path.

**Tier 1** homes must meet the following measures: 16+ SEER HVAC systems, Grade 1 wall and ceiling insulation, achieve at least a five percent (5%) savings over the 2020 Texas Baseline Reference Home (TBRH), meet two out of five Elective Requirements and submit a confirmed Ekotrope File.

- An alternative method to comply with Elective Options for **Tier 1** homes is to obtain an ENERGY STAR v3.1 certification. By completing the certification, a builder can forego the two out of five Elective Options identified above.

**Tier 2** homes must meet all qualifications from **Tier 1**, however they must meet four out of five Elective Requirements (Duct Leakage, Infiltration, Window SHGC, Wall Insulation or High Efficiency Lighting)

- An alternative method to comply with Elective Options for **Tier 2** homes is to either obtain an ENERGY STAR v3.1 certification **or** install complete foam envelope encapsulation (R-13 walls and R-21 ceiling). By completing one of these two options, a builder can forego the four out of five Elective Options identified above.

Additional Bonus Incentives are available for both Tiers by installing a **Right Sized HVAC** equipment sized in accordance with ACCA Manual J8 and ACCA Manual S - 2014 standards **and/or** installing an **ENERGY STAR Certified Smart Thermostat** as listed on the [ENERGY STAR.gov](#) website.

Documentation required for bonus incentives will be as follows:

- **Right Sized HVAC**- Submit an ACCA Manual J8 or ACCA Manual S-2014
- **ENERGY STAR Certified Smart Thermostat**- Submit model and serial number

Incentive amounts and Tier structure summary is outlined on Table 1.



Table 1- 2020 Whole House Incentive Structure

	Mandatory Program Requirements	
	<b>Tier 1</b>	<b>Tier 2</b>
Minimum Cooling SEER Value	16	16
Grade 1 Wall Insulation	Yes	Yes
Grade 1 Ceiling Insulation	Yes	Yes
Submit an Ekotrope File	Yes	Yes
Achieve at least a five percent (5%) savings over the 2020 TBRH	Yes	Yes
Elective Requirements <sub>1</sub>	Must Meet 2 out of 5	Must Meet 4 out of 5
Duct Leakage CFM/100 sq. ft.	≤ 4	≤ 4
Infiltration ACH50	≤ 4.5	≤ 4.5
Average Window SHGC	≤ .24	≤ .24
Average Rated Wall + Sheathing R Value	≥ 15	≥ 15
High Efficiency Lighting %	≥ 90%	≥ 90%
Innovation Options	Optional	Optional- Meet 1 out of 2
If you choose an innovation option, it will replace the Elective Requirements <sub>1</sub>	ENERGY STAR v3.1	Foam encapsulated envelope (R-13 walls and R-21 ceiling) or obtain ENERGY STAR v3.1 certification
Incentive Amount	\$250.00	\$400.00
Additional Bonus Incentives- Builders can combine additional bonus incentives for a total of \$75 for either tier		
Right Sized HVAC (Submit Manual J)		\$25
<a href="#">ENERGY STAR Certified Smart Thermostat</a> (Submit Model and Serial Number)		\$50

Details on program incentives are listed in the following section. Compliance verification for each individual measure requirement will be done using data extracted from the Ekotrope file supplied with the incentive request. Whole house measure-specific notes:

- Average Cooling SEER Value: will be determined by the average value of all installed 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-hundredth of the conditioned floor area. Only the units "CFM at 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 at 50 Pascals" or "ACH at 50 Pascals" can be accepted.
- 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.
- 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

Applicable to bonus incentives:

- Right-sizing incentives are also available for homes under the whole house path that have submitted an ACCA approved Manual J. Systems installed will be required to be sized according to *ANSI/ACCA 3 Manual S – 2014* sizing standards noted in *Table N2-1, Sizing Limits for Cooling Equipment Only*. All submittals must be reviewed and approved to have met all requirements before incentives are awarded.
- To qualify for the [ENERGY STAR Certified Smart](#) Thermostat bonus incentive, applicant must submit systems model number and serial number to the database. To verify system eligibility visit the ENERGY STAR [website](#)





Applicable to all homes in the whole house path:

- 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 TNMP review. Required documentation includes:
  - Completed database entry 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.
- All homes must meet the minimum energy code, the 2015 IECC, in addition to the Program requirements
- All homes in the whole house path 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 which should be available upon request
- 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 Homebuilder 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
- Whole house multi-family incentives are capped at fifty percent (50%) of single-family incentive structure. 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



## HVAC Midstream Path

The second compliance path for the TNMP High-Performance Homes Program is the **HVAC Midstream Path**. Homebuilders who do not meet the requirements for the whole house path can qualify to receive incentives for installing high efficiency HVAC systems in newly constructed homes. The incentive tables shown below will be paid on qualifying air conditioners and heat pumps installed in homes constructed in the TNMP service territory. Incentives are paid per system. For heat pump incentives, values from Table 3 are added to the air conditioner incentives in Table 2. In addition to the above incentives, the builder can install an ENERGY STAR smart thermostat and receive an extra \$50 bonus.

Table 2 – Air Conditioner Incentives by SEER and BTUH

New Capacity BTUH	SEER (Incentive)					
	15.0-15.9	16.0-16.9	17.0-17.9	18.0-20.9	21.0-23.9	24.0+
<15,000	\$24	\$45	\$30	\$48	\$69	\$87
15,000 – 20,999	\$36	\$66	\$45	\$69	\$105	\$132
21,000 - 26,999	\$48	\$90	\$63	\$93	\$138	\$177
27,000 - 32,999	\$60	\$111	\$78	\$117	\$174	\$222
33,000 - 38,999	\$72	\$135	\$93	\$141	\$207	\$264
39,000 - 44,999	\$84	\$156	\$108	\$165	\$243	\$309
45,000-53,999	\$96	\$177	\$123	\$186	\$276	\$354
54,000-64,499	\$120	\$222	\$153	\$234	\$348	\$441
Additional Bonus Incentive						
ENERGY STAR Certified Smart Thermostat (Submit Model and Serial Number)				\$50		

Table 3 – Heat Pumps Incentives by HSPF and BTUH

New Capacity BTUH	HSPF (Incentive)							
	8.5-8.9	9.0-9.4	9.5-9.9	10.0-10.4	10.5-10.9	11.0-11.4	11.5-11.9	12.0+
<15,000	\$15	\$33	\$39	\$42	\$48	\$51	\$54	\$54
15,000 - 20,999	\$21	\$48	\$60	\$66	\$69	\$75	\$78	\$81
21,000 - 26,999	\$30	\$63	\$81	\$87	\$93	\$99	\$105	\$108
27,000 - 32,999	\$36	\$78	\$102	\$108	\$117	\$123	\$132	\$135
33,000 - 38,999	\$45	\$96	\$120	\$129	\$141	\$150	\$159	\$162
39,000 - 44,999	\$51	\$111	\$141	\$153	\$162	\$174	\$183	\$189
45,000-53,999	\$60	\$126	\$162	\$174	\$186	\$198	\$210	\$216
54,000-64,499	\$75	\$159	\$201	\$216	\$234	\$249	\$264	\$270



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 TNMP review. Required documentation includes:
  - Completed database entry for each equipment
  - Upload the incentive claim form for each equipment
  - Model, Serial Number and AHRI for each submitted HVAC system or heat pump
  - All homes must meet the minimum energy code, the 2015 IECC, in addition to the Program requirements
  - To qualify for the [ENERGY STAR Certified Smart](#) Thermostat bonus incentive, applicant must submit systems model number and serial number to the database. To verify system eligibility visit the ENERGY STAR [website](#)

## 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, HERS 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, homebuilders must meet the following Performance Milestone Date Requirements seen in Table 4:

*Table 4 – Milestone Dates*

Date	Performance Milestone Date Requirements
<b>April 30, 2020</b>	At least 20% of total committed homes/systems must be <b>entered</b> on the Program's online system; Homebuilder must have selected at least one preferred HERS Rater or Contractor to the online system.
<b>June 30, 2020</b>	At least 60% of total committed homes/systems must be <b>entered</b> on the Program's online system <b>and</b> the required documentation for the invoiced homes must be uploaded to the online system.
<b>September 30, 2020</b>	At least 85% of total committed homes/systems must be <b>invoiced</b> on the Program's online system <b>and</b> the required documentation for the invoiced homes must be uploaded to the online system.
<b>November 30, 2020</b>	100% of total committed homes/systems must be <b>invoiced</b> on the Program's online system <b>and</b> the required documentation for the invoiced homes must be uploaded to the online system.

If homebuilder fails to meet the performance date requirements, ICF may withdraw some or all the Incentive Payments for homes/systems 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](http://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 a good faith forecast of the number of eligible homes and participating communities in the TNMP service territory that the homebuilder expects to complete by November 30, 2020. ICF will use this information to ensure that the communities are in the TNMP service territory and to proactively forecast program incentives.
- **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 the homebuilder's sales offices
- **Submit Documentation:** Homebuilder agrees to provide documentation as outlined in the section titled "[Reporting Requirements, Required Data](#)"
- **Use RESNET Approved HERS Rater (Whole House Path):** 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 Ekotrope file, and all required data inputs in the "Rating Information" section of the database. Homebuilders should actively coordinate with their HERS Rater to ensure that all completed homes are submitted to the program within a month of final inspection and all starts are added to the database on a monthly basis

## 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 TNMP High-Performance Homes Program, ENERGY STAR or a homebuilder's savings goals. Raters must also ensure that homes submitted to the program meet RESNET Standards. Raters operate under the guidance of HERS Rating Providers, accredited through RESNET ([www.resnet.us](http://www.resnet.us)), and provide third-party inspections, testing, and verification of energy-efficient measures installed in residential new homes. The HERS 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 TNMP High-Performance Homes Program. HERS Rater responsibilities include:

- Providing design assistance and perform 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 Ekotrope file (Ekotrope walkthrough video: <https://ekotrope.freshdesk.com/support/solutions/articles/17000065870> and there are also step-by-step instructions on the import page after the rater hits "Import from REM/Rate."), architectural plans and any other requested documentation for the randomly selected QA/QC addresses to be inspected by TNMP 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
- Standard 380 – HERS Raters must use multi-point testing to improve consistency throughout the HERS process when taking measurements in the field

## 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 or HERS Raters will be required to submit HVAC condenser, coil model, serial numbers and AHRI certification information to the program's database for all homes in the HVAC midstream program path. This documentation may also be requested as part of the QA/QC requirements for homes participating in the Whole House path.



## REPORTING REQUIREMENTS REQUIRED DATA

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TNMP is required to collect certain data from homes that are delivered to the High-Performance Homes 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 TNMP. Financial incentives will only be paid after TNMP 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 TNMP electric service territory, to avoid submitting homes that are not in the TNMP 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](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*

- Rater must ensure that homes are built to RESNET Standards
- Energy models submitted to the Program must be created using Ekotrope software
- 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
- AHRI Reference Number
- If ENERGY STAR certified



- QA documents, as requested

### **HVAC Contractors/HERS Raters (Midstream Path)**

HVAC Contractors/HERS Raters will be requested to provide the following information for the HVAC Midstream Path as well as for QA/QC on the Whole House Path.

- 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 – WHOLE HOUSE PATH

On behalf of TNMP, 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 HERS 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. 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
- HERS Rater inspection, testing, and reporting accuracy

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

- Conducting extensive analysis of homebuilder plans and HERS 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 TNMP

ICF will continue to implement onsite field verification in the new homes program to assure consistent results. We will work with HERS Raters and homebuilders on scheduling onsite verification at different stages of construction and attending final inspections to perform QA/QC both with the HERS 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. HERS Raters will be required to submit weekly inspection schedules to program staff to allow for scheduling of onsite QA/QC visits.

### QA/QC Pilot Program

The RESNET Standards require Quality Assurance Designees to conduct quality assurance field reviews on 1% of the annual total of ratings conducted per HERS Rater or HERS Rating Field Inspector. Quality assurance field reviews are also conducted by ICF International for ratings completed for the utility programs that they implement.

A pilot program has been developed so that reviews conducted by ICF will count towards the reviews required in the RESNET Standards. The purpose of the pilot is to identify and resolve any barriers to leveraging utility program QA with the intent of eliminating redundancy, reducing the field QA burden for Rating Providers and help to lessen costs associated with RESNET compliance.

Participants agree to participate in pilot program.

### QA/QC Requirements

ICF will inspect each project file within the Program database for accuracy and verification. For this reason, an Ekotrope Reference URL will be requested. 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 TNMP High-Performance Homes Program. The results and findings of the QA/QC program will be shared with participating homebuilders, HERS Raters and contractors as needed during 2020. Below are the examples of the corrective action steps implemented throughout the program year:

- **1st Offense:** The homebuilder and the rater will be notified and counseled by ICF program account managers
- **2nd Offense:** The homebuilder and rater will be notified and incentives for homes not meeting the requirement will be forfeited
- **3rd Offense:** Program administrators will determine, depending on the circumstances, if the rater and/or homebuilder should be suspended from the Program for the remainder of the Program year

In the event that a home or system has already been paid but does not pass the QA/QC process, the homebuilder will either be required to pay back the incentive to the Program or submit an additional home that qualifies for the same incentive amount as a replacement for the failed home or system.

## QUALITY ASSURANCE/QUALITY CONTROL – HVAC MIDSTREAM PATH

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### Desk Reviews

Upon receipt, incentive application forms go through a quality control review for eligibility, completeness and accuracy. Each application will include a database entry for each qualified system, the AHRI number for the equipment installed. The load calculation for the project does not have to be submitted with the application but must be provided to ICF for review upon request. A pdf file of all documentation will be maintained by ICF for each incentive request submitted by the homebuilders.

### On-site Inspections

In addition to these reviews, all projects are subject to on-site inspections. An on-site inspection of the installed equipment to confirm model and serial numbers can be conducted at any time upon notification to the homebuilder or homeowner. If any irregularities are noted, the homebuilder will be notified to resolve the issue with the contractor and the customer. ICF will provide documentation and support as needed. Inspection procedures are as follows:

On-site System Performance Inspection of approved systems:



- Performed by qualified ICF QAD representative.

Any system that fails the field inspection process will be denied and will not be accepted into the Program. TNMP may also choose to exercise the option to do more inspections on the individual homebuilder that had the failed inspection to ensure that additional incorrect installations are not being submitted.

## Corrective Action Procedures

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

- **1st Offense:** The homebuilder, HERS rater and/or HVAC contractor will be notified and counseled by ICF program account managers
- **2nd Offense:** The homebuilder, HERS rater and/or HVAC contractor will be notified and incentives for homes not meeting the requirement will be forfeited
- **3rd Offense:** Program administrators will determine, depending on the circumstances, if the HERS rater, HVAC contractor and/or homebuilder should be suspended from the Program for the remainder of the Program year

In the event that a home or system has already been paid but does not pass the QA/QC process, the homebuilder will either be required to pay back the incentive to the Program or submit an additional home that qualifies for the same incentive amount as a replacement for the failed home or system.



## PROGRAM IMPLEMENTATION

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The TNMP 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 or HVAC systems
- Support for homebuilder marketing staff to help successfully integrate high-performance into corporate messaging

### Training

Energy Efficiency Learning Center is a 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
- Manual J Load Calculations
- 2015 IECC compliance training
- Measuring Air Distribution
- ASHRAE 62.2-2013 Standard for Ventilation and Acceptable Indoor Air
- ENERGY STAR Version 3.1 training including sales training courses on how to incorporate ENERGY STAR and high-performance messages into the sales process
- Program-specific trainings to help facilitate onboarding new stakeholders with database trainings

Through the ICF Learn website, TNMP 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, contractors and HERS Raters 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

TNMP will sponsor an outreach and advertising campaign on behalf of homebuilders participating in the TNMP 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 [www.energystar.gov](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](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:** Gamble 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:

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

**HERS Index**

Zero Energy Home | Reference Home | Existing Home

Less Energy | 65 | More Energy

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 approved 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.

Note that other a home contains multiple performance levels for a particular feature (e.g., window efficiency or insulation levels), the predominant value is shown. Also, homes may be certified to earn the ENERGY STAR using a building process whereby one home is randomly selected from a set of homes for representative inspection and testing. In such cases, the HERScore listed on each home within the set are intended to show the range of values presented on this certificate. The actual values for your home may differ, but offer equivalent or better performance. This certificate was printed using 100% recycled paper.

Learn more at [www.energystar.gov/homebuilders](http://www.energystar.gov/homebuilders)



## 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

### TNMP 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 TNMP High-Performance Homes Program in 2020. All participating homebuilders will be listed, along with contact information and website address, at <http://tnmpefficiency.com/homebuilders.html>. All participating ENERGY STAR homebuilders will have available upon request ENERGY STAR promotional items for use at model homes. ENERGY STAR and TNMP High-Performance Homes branded yard signs.

Additionally, marketing materials are available through the National ENERGY STAR Program as well as the TNMP 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. TNMP SERVICE TERRITORY ZIP CODE LIST

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

City	County	Zip	Local Office
<i>Alvin</i>	<i>Brazoria</i>	<i>77511</i>	<i>Alvin</i>
<i>Alvin</i>	<i>Brazoria</i>	<i>77512</i>	<i>Alvin</i>
<i>Alvin</i>	<i>Galveston</i>	<i>77512</i>	<i>Alvin</i>
<i>Angleton</i>	<i>Brazoria</i>	<i>77515</i>	<i>Angleton</i>
<i>Anna</i>	<i>Collin</i>	<i>75409</i>	<i>Whitewright</i>
<i>Anna</i>	<i>Grayson</i>	<i>75409</i>	<i>Pilot Point</i>
<i>Archer County</i>	<i>Archer</i>	<i>76370</i>	<i>Olney</i>
<i>Aubrey</i>	<i>Denton</i>	<i>76227</i>	<i>Pilot Point</i>
<i>Bagwell</i>	<i>Red River</i>	<i>75412</i>	<i>Bogata</i>
<i>Bailey</i>	<i>Fannin</i>	<i>75413</i>	<i>Whitewright</i>
<i>Bailey</i>	<i>Fannin</i>	<i>75452</i>	<i>Whitewright</i>
<i>Bailey's Prairie</i>	<i>Brazoria</i>	<i>77515</i>	<i>Angleton</i>
<i>Barstow</i>	<i>Ward</i>	<i>79719</i>	<i>Pecos</i>
<i>Bells</i>	<i>Grayson</i>	<i>75414</i>	<i>Whitewright</i>
<i>Blossum</i>	<i>Fannin</i>	<i>75416</i>	<i>Bogata</i>
<i>Blossum</i>	<i>Franklin</i>	<i>75487</i>	<i>Bogata</i>
<i>Blossum</i>	<i>Lamar</i>	<i>75416</i>	<i>Bogata</i>
<i>Blossum</i>	<i>Red River</i>	<i>75416</i>	<i>Bogata</i>
<i>Blue Ridge</i>	<i>Collin</i>	<i>75407</i>	<i>Princeton</i>
<i>Blue Ridge</i>	<i>Collin</i>	<i>75424</i>	<i>Princeton</i>
<i>Bluff Dale</i>	<i>Erath</i>	<i>76433</i>	<i>Glen Rose</i>
<i>Blum</i>	<i>Hill</i>	<i>76627</i>	<i>Whitney</i>
<i>Bogata</i>	<i>Fannin</i>	<i>75417</i>	<i>Bogata</i>
<i>Bogata</i>	<i>Lamar</i>	<i>75417</i>	<i>Bogata</i>
<i>Bogata</i>	<i>Red River</i>	<i>75417</i>	<i>Bogata</i>
<i>Bosque County</i>	<i>Bosque</i>	<i>76634</i>	<i>Clifton</i>
<i>Brazoria County</i>	<i>Brazoria</i>	<i>77515</i>	<i>Angleton</i>
<i>Brazoria/Old Brazoria/Wild Peach Village</i>	<i>Brazoria</i>	<i>77422</i>	<i>West Columbia</i>
<i>Bryson</i>	<i>Jack</i>	<i>76427</i>	<i>Bryson</i>
<i>Byers</i>	<i>Clay</i>	<i>76357</i>	<i>Nocona</i>
<i>Byers</i>	<i>Clay</i>	<i>76377</i>	<i>Nocona</i>
<i>Carlton</i>	<i>Erath</i>	<i>76436</i>	<i>Hico</i>
<i>Carlton</i>	<i>Hamilton</i>	<i>76436</i>	<i>Hico</i>
<i>Celeste</i>	<i>Fannin</i>	<i>75423</i>	<i>Whitewright</i>
<i>Celeste</i>	<i>Hunt</i>	<i>75423</i>	<i>Whitewright</i>
<i>Celeste</i>	<i>Hunt</i>	<i>75452</i>	<i>Whitewright</i>



City	County	Zip	Local Office
<b>Clay County</b>	Clay	76255	Nocona
<b>Clifton</b>	Bosque	76634	Clifton
<b>Collin County</b>	Collin	75407	Princeton
<b>Comanche County</b>	Comanche	76455	Hamilton
<b>Cooke County</b>	Cooke	76255	Nocona
<b>Coppell (Dallas County)</b>	Denton	75057	Lewisville
<b>Coppell (Denton County)</b>	Denton	75019	Lewisville
<b>Coryell County</b>	Coryell	76528	Gatesville
<b>Covington</b>	Hill	76636	Whitney
<b>Coyanosa</b>	Pecos	79730	Pecos
<b>Crawford</b>	Coryell	76638	Gatesville
<b>Crawford</b>	McClennan	76638	Valley Mills
<b>Cross Roads</b>	Denton	76258	Pilot Point
<b>Cunningham</b>	Lamar	75434	Boqata
<b>De Leon</b>	Bosque	76444	Hico
<b>Dean</b>	Clay	76377	Nocona
<b>Denton County</b>	Denton	75067	Lewisville
<b>Deport</b>	Fannin	75435	Boqata
<b>Deport</b>	Red River	75435	Boqata
<b>Deport (Lamar Co.)</b>	Lamar	75435	Boqata
<b>Detroit</b>	Fannin	75436	Boqata
<b>Detroit</b>	Lamar	75436	Boqata
<b>Detroit</b>	Red River	75436	Boqata
<b>Dickinson/San Leon</b>	Galveston	77539	Dickinson
<b>Edgewood</b>	Van Zandt	75117	Emory
<b>Emory</b>	Rains	75440	Emory
<b>Emory</b>	Van Zandt	75440	Emory
<b>Erath County</b>	Erath	76401	Strawn
<b>Fannin County</b>	Fannin	75491	Whitewright
<b>Farmersville</b>	Collin	75442	Princeton
<b>Fort Stockton</b>	Pecos	79735	Fort Stockton
<b>Franklin County</b>	Lamar	75436	Boqata
<b>Friendswood</b>	Brazoria	77546	Friendswood
<b>Friendswood</b>	Galveston	77546	Friendswood
<b>Galveston County</b>	Galveston	77511	Alvin
<b>Gatesville</b>	Coryell	76528	Gatesville
<b>Gatesville</b>	Coryell	76528	Gatesville
<b>Gatesville</b>	Hamilton	76538	Gatesville
<b>Glen Rose</b>	Somervell	76043	Glen Rose





City	County	Zip	Local Office
<b>Gordon</b>	<i>Erath</i>	<i>76453</i>	<i>Strawn</i>
<b>Gordon</b>	<i>Palo Pinto</i>	<i>76453</i>	<i>Strawn</i>
<b>Graham</b>	<i>Jack</i>	<i>76450</i>	<i>Olney</i>
<b>Graham</b>	<i>Young</i>	<i>76450</i>	<i>Olney</i>
<b>Granbury</b>	<i>Hood</i>	<i>76048</i>	<i>Glen Rose</i>
<b>Grandview</b>	<i>Johnson</i>	<i>76050</i>	<i>Whitney</i>
<b>Grayson County</b>	<i>Grayson</i>	<i>76271</i>	<i>Pilot Point</i>
<b>Gustine</b>	<i>Comanche</i>	<i>76455</i>	<i>Hamilton</i>
<b>Hamilton</b>	<i>Hamilton</i>	<i>76531</i>	<i>Hamilton</i>
<b>Hamilton/Hasse</b>	<i>Hamilton</i>	<i>76442</i>	<i>Hamilton</i>
<b>Henrietta</b>	<i>Clay</i>	<i>76365</i>	<i>Nocona</i>
<b>Hico</b>	<i>Bosque</i>	<i>76457</i>	<i>Hico</i>
<b>Hico</b>	<i>Erath</i>	<i>76457</i>	<i>Hico</i>
<b>Hico</b>	<i>Hamilton</i>	<i>76457</i>	<i>Hico</i>
<b>Highland Village</b>	<i>Denton</i>	<i>75067</i>	<i>Lewisville</i>
<b>Hill County</b>	<i>Hill</i>	<i>76055</i>	<i>Whitney</i>
<b>Hillcrest Village</b>	<i>Brazoria</i>	<i>77511</i>	<i>Alvin</i>
<b>Holiday Lakes</b>	<i>Brazoria</i>	<i>77515</i>	<i>Angleton</i>
<b>Hood County</b>	<i>Hood</i>	<i>76476</i>	<i>Glen Rose</i>
<b>Hunt County</b>	<i>Hunt</i>	<i>75453</i>	<i>Emory</i>
<b>Iredell</b>	<i>Bosque</i>	<i>76649</i>	<i>Hico</i>
<b>Jack County</b>	<i>Jack</i>	<i>76459</i>	<i>Olney</i>
<b>Johnson County</b>	<i>Johnson</i>	<i>76031</i>	<i>Whitney</i>
<b>Jonesboro</b>	<i>Coryell</i>	<i>76538</i>	<i>Gatesville</i>
<b>Kermit</b>	<i>Winkler</i>	<i>79745</i>	<i>Kermit</i>
<b>Kopperl</b>	<i>Bosque</i>	<i>76652</i>	<i>Meridian</i>
<b>Krugerville</b>	<i>Denton</i>	<i>76227</i>	<i>Pilot Point</i>
<b>La Marque</b>	<i>Galveston</i>	<i>77568</i>	<i>LaMarque</i>
<b>Lamar County</b>	<i>Lamar</i>	<i>75435</i>	<i>Boqata</i>
<b>League City</b>	<i>Galveston</i>	<i>77573</i>	<i>League City</i>
<b>Leonard</b>	<i>Fannin</i>	<i>75452</i>	<i>Whitewright</i>
<b>Leonard</b>	<i>Hunt</i>	<i>75452</i>	<i>Whitewright</i>
<b>Lewisville</b>	<i>Denton</i>	<i>75029</i>	<i>Lewisville</i>
<b>Lewisville</b>	<i>Denton</i>	<i>75067</i>	<i>Lewisville</i>
<b>Lewisville (Dallas County)</b>	<i>Denton</i>	<i>75057</i>	<i>Lewisville</i>
<b>Lewisville (Denton Co.)</b>	<i>Denton</i>	<i>75057</i>	<i>Lewisville</i>
<b>Lewisville / Highland Village / Double Oak</b>	<i>Denton</i>	<i>75077</i>	<i>Lewisville</i>
<b>Loving</b>	<i>Young</i>	<i>76460</i>	<i>Olney</i>
<b>Lowry Crossing</b>	<i>Collin</i>	<i>75407</i>	<i>Princeton</i>





City	County	Zip	Local Office
<b>Matagorda County</b>	<i>Matagorda</i>	77480	Sweeny
<b>McLennan County</b>	<i>McClennan</i>	76689	Valley Mills
<b>Megargel</b>	<i>Archer</i>	76370	Olney
<b>Meridian</b>	<i>Bosque</i>	76665	Meridian
<b>Mingus</b>	<i>Palo Pinto</i>	76463	Strawn
<b>Montague</b>	<i>Montague</i>	76251	Nocona
<b>Montague county</b>	<i>Montague</i>	76255	Nocona
<b>Morgan</b>	<i>Bosque</i>	76671	Meridian
<b>Nemo</b>	<i>Somervell</i>	76070	Glen Rose
<b>Newcastle</b>	<i>Young</i>	76372	Olney
<b>Nocona</b>	<i>Montague</i>	76255	Nocona
<b>Old Ocean</b>	<i>Brazoria</i>	77463	Sweeny
<b>Olney</b>	<i>Archer</i>	76374	Olney
<b>Olney</b>	<i>Jack</i>	76374	Olney
<b>Olney</b>	<i>Young</i>	76374	Olney
<b>Palo Pinto County</b>	<i>Palo Pinto</i>	76453	Strawn
<b>Pattonville</b>	<i>Fannin</i>	75468	Bogata
<b>Pattonville</b>	<i>Lamar</i>	75468	Bogata
<b>Pearland</b>	<i>Brazoria</i>	77584	Friendswood
<b>Pearland</b>	<i>Brazoria</i>	77588	Friendswood
<b>Pearland</b>	<i>Galveston</i>	77584	Friendswood
<b>Pearland</b>	<i>Galveston</i>	77588	Friendswood
<b>Pearland/Brookside Village</b>	<i>Brazoria</i>	77581	Friendswood
<b>Pearland/Brookside Village</b>	<i>Galveston</i>	77581	Friendswood
<b>Pecos</b>	<i>Reeves</i>	79772	Pecos
<b>Pecos County</b>	<i>Pecos</i>	79735	Fort Stockton
<b>Pecos/Verhalen</b>	<i>Reeves</i>	79772	Pecos
<b>Petrolia</b>	<i>Clay</i>	76377	Nocona
<b>Pilot Point</b>	<i>Cooke</i>	76258	Pilot Point
<b>Pilot Point</b>	<i>Denton</i>	76258	Pilot Point
<b>Pilot Point</b>	<i>Grayson</i>	76258	Pilot Point
<b>Point</b>	<i>Rains</i>	75472	Emory
<b>Princeton</b>	<i>Collin</i>	75407	Princeton
<b>Pyote</b>	<i>Ward</i>	79777	Pecos
<b>Rainbow</b>	<i>Somervell</i>	76077	Glen Rose
<b>Rains County</b>	<i>Rains</i>	75440	Emory
<b>Randolph</b>	<i>Fannin</i>	75475	Whitewright
<b>Red River County</b>	<i>Red River</i>	75417	Bogata
<b>Reeves County</b>	<i>Reeves</i>	79772	Pecos



City	County	Zip	Local Office
<b>Ringgold</b>	Montague	76261	Nocona
<b>Rio Vista</b>	Hill	76093	Whitney
<b>Rio Vista</b>	Johnson	76093	Whitney
<b>Saint Jo</b>	Montague	76265	Nocona
<b>Sanderson</b>	Terrell	79848	Sanderson
<b>Santo</b>	Palo Pinto	76472	Strawn
<b>Somervell County</b>	Somervell	76043	Glen Rose
<b>South Mountain</b>	Coryell	76528	Gatesville
<b>Stephens Co. – Eliasville</b>	Stephens	76438	Olney
<b>Strawn</b>	Palo Pinto	76475	Strawn
<b>Sweeny/Ashwood/Sugar Valley</b>	Brazoria	77480	Sweeny
<b>Talco</b>	Red River	75487	Boqata
<b>Terrell County</b>	Terrell	78851	Sanderson
<b>Texas City</b>	Galveston	77591	Texas City
<b>Texas City</b>	Galveston	77592	Texas City
<b>Texas City Control Area</b>	Galveston	76634	Texas City
<b>Texas City/Meskill</b>	Galveston	77590	Texas City
<b>Tioga</b>	Grayson	76271	Pilot Point
<b>Titus County</b>	Titus	75487	Boqata
<b>Tolar</b>	Hood	76476	Glen Rose
<b>Tom Bean</b>	Grayson	75489	Whitewright
<b>Toyah</b>	Reeves	79785	Pecos
<b>Trenton</b>	Fannin	75452	Whitewright
<b>Trenton</b>	Fannin	75490	Whitewright
<b>Valley Mills</b>	Coryell	76689	Valley Mills
<b>Valley Mills (Bosque Co.)</b>	Bosque	76689	Valley Mills
<b>Valley Mills (McClennan Co.)</b>	McClennan	76689	Valley Mills
<b>Van Zandt County</b>	Van Zandt	75117	Emory
<b>Walnut Springs</b>	Bosque	76690	Meridian
<b>Ward County</b>	Ward	79788	Kermit/Pecos
<b>West Columbia/East Columbia</b>	Brazoria	77486	West Columbia
<b>Westminster</b>	Collin	75485	Whitewright
<b>Whitewright</b>	Collin	75491	Whitewright
<b>Whitewright (Fannin Co.)</b>	Fannin	75491	Whitewright
<b>Whitewright (Grayson Co.)</b>	Grayson	75491	Whitewright
<b>Whitney</b>	Hill	76692	Whitney
<b>Wichita Falls</b>	Clay	76301	Nocona
<b>Wickett</b>	Ward	79788	Kermit
<b>Wink</b>	Winkler	79789	Kermit



City	County	Zip	Local Office
<i>Winkler County</i>	<i>Ward</i>	<i>79745</i>	<i>Kermit</i>
<i>Winkler County</i>	<i>Winkler</i>	<i>79745</i>	<i>Kermit</i>
<i>Young Co. – Eliasville</i>	<i>Young</i>	<i>76438</i>	<i>Olney</i>
<i>Young County</i>	<i>Young</i>	<i>76374</i>	<i>Olney</i>



## B. PROGRAM RESOURCES

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- TNMP Energy Efficiency Programs  
<http://www.tnmpefficiency.com>
- 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](https://www.energystar.gov/index.cfm?c=bldrs_lenders_raters.nh_v3_guidelines)
- Residential Energy Services Network  
<http://www.resnet.us>

