IRA HOME ENERGY REBATES: DATA AND TOOLS REQUIREMENTS GUIDE

Introduction

This guide is intended to assist states and their designees in developing and executing data collection, tracking, and reporting plans as needed to effectively implement two residential rebate programs authorized by Sections 50121 and 50122 of the Inflation Reduction Act of 2022. The guide is into five parts; parts 1, 2, and 3 address data requirements while parts 4 and 5 focus on data systems and rebate process workflows. These requirements are in collaboration with and will be included on the Federal Assistance Reporting Checklist (FARC) as part of the award package.

- Parts 1 & 2 cover data collection, tracking, and reporting requirements for the Home Efficiency Rebates (Section 50121) and the Home Electrification and Appliance Rebates (Section 50122) respectively. Each part includes –
    a) questions that states are required to answer prior to launching their programs;
    b) data requirements associated with individual rebate transactions;
    c) data requirements associated with overall rebate programs; and,
    d) information regarding how states can share data with DOE.

- Part 3 lists additional data elements that DOE recommends states collect and DOE's database will accept but are not required.

- Part 4 describes the primary functions that rebate programs must perform.

- Part 5 provides links to recommended workflows for fulfilling rebate processing and data requirements.

The Department of Energy's IRA Rebates Team (herein, DOE) working with a team at the Pacific Northwest National Laboratory (PNNL), developed the recommended workflows after significant engagement of program implementers, states, retailers, IT firms, and other stakeholders. The DOE/PNNL team prioritized the following principles in developing both the workflows and data reporting structure:

- Ensure that rebate processes are as simple as possible for states, homeowners, retailers/vendors, contractors, and others;
- Reduce the reporting burden of states and their program implementers;
- Ensure consistent data specifications for the purposes of tracking & evaluation; and,
- Leverage private sector expertise in areas such as rebate processing, verifying income, and developing user-centered interfaces.

A few additional points to keep in mind when reviewing this document:

- The DOE/PNNL team strongly recommends that states and their program implementers use the provided workflows (see Part 5 of this document or workflows on https://www.pnnl.gov/projects/rebate-tools). They are designed to both simplify tracking and reporting, as well as facilitate engagement of national and other stakeholders (e.g., retailers).
    - Given that some states may choose to integrate these rebates with existing programs and workflows, states can choose to use different workflows. In such cases, the state must attain DOE's approval for its alternative workflows.
- All states must meet the data collection and reporting requirements outlined in this guide.
    - States that use the DOE/PNNL workflows will use the DOE/PNNL application programming interface (API) to submit the majority of required data. This will reduce reporting burden significantly.
    - States that do NOT use the DOE/PNNL workflows have the option to either use the API or a DOE/PNNL standardized spreadsheet to submit data.
- States must adhere to the data security requirements described in the program requirements.
- DOE may request, pursuant to privacy rules, any data elements that states must retain, for the purposes of audits or other needs.
- While this guide breaks out requirements according to the two rebate programs, some states may elect to build one system to implement both types of rebate programs.
- If a state elects to change relevant program components (e.g., low-income allocations, rebate amounts) over the course of implementing the rebate programs, they must notify the DOE/PNNL team prior to making such a change so that the system can be updated accordingly. This is particularly important for states that use the DOE/PNNL workflows.
- DOE/PNNL will provide a data dictionary in the coming weeks to assist states in responding to questions and developing their data plans.

- DOE/PNNL expects that clarifications and revisions will be needed to address questions and comments that arise as states and implementers begin to design and launch their programs. Once these issues are resolved, DOE/PNNL will strive to keep changes and updates to a minimum. Throughout the course of the rebates, DOE/PNNL will alert states prior to making any changes to this document or the API, and provide appropriate lead time for states to make any required changes (unless there's a critical system problem that needs to be fixed immediately).

Finally, the DOE/PNNL team is committed to working with states and their program implementers to ensure that data collection, reporting, and tracking – as well as rebate processing – are simple and effective. If you have any questions about the content in the document, please feel free to reach out to the data and tools team in the Contact Us section of the *pnnl.gov/projects/rebatetools* webpage.

Part 1: Whole Home Efficiency Rebates

A) 50121 Rebates: Pre-Launch Information Requirements

States or their designees must provide all of the following information via the DOE/PNNL administrative portal/standardized excel spreadsheet BEFORE launching its 50121 program. DOE/PNNL need this information to understand how PNNL's IT team will need to engage with the state and/or its implementer. Within that portal, DOE/PNNL will provide a web form for states to respond to these questions.

Pre-Launch Data Details	Additional Notes
Anticipated program launch date	
Which software companies will you be working with to implement your IRA rebates?	
Please name and contact information for all technical contacts within that company that should have access to the DOE/PNNL API	
Do you plan to integrate your IRA rebates with any other existing rebate programs?	Yes/No
If yes, please provide more detail	
Does the state plan to allow the modeled savings approach at time of program launch?	Yes/No
Does the state plan to allow the measured savings approach at time of program launch?	Yes/No
How much funding does the state initially want to allocate to the HOMES rebates?	
What percentage of the state's HOMES allocation does the state want to reserve for households with income <80% AMI?	
If allowing both modeled and measured savings approaches, does the state want to designate percentage allocations for the two methods?	Yes/No
If yes, what percentage for modeled?	
If yes, what percentage for measured?	
If reserving funds specifically for rental properties, what percent of its HOMES rebates does the state want to reserve for single family homes not occupied by the owner?	

What percent of its HOMES rebates does the state want to reserve for multifamily building owners?	
How does the state plan to fulfill the photo documentation QA requirements?	DOE QA tool, other QA process
Is there an amount of time that the state would like the rebate reservation to be active for?	1 month, 6 months, 1 year, 2 years, no expiration
If the state is planning to offer a higher rebate for low-income qualifying homes, please state the amount and percentage caps. Note if you've received or are awaiting DOE approval.	
Map of DACs for the state	PNNL to provide formatting for this element at *pnnl.gov/projects/rebatetools.* If using CESJT to define DAC locations, this does NOT need to be provided.

B) 50121 Rebates: Transaction Data Collection & Reporting Requirements

The table below lists all of the data that is required to be collected by the state or a third party for each rebate transaction associated with the HOMES rebates.

- All of the following data elements must be collected and retained by the state or its implementer.
- Some of the following data elements must ALSO be reported to DOE.
- Note that a state can elect to share any of the following data elements with DOE via the API or standardized spreadsheet unless otherwise noted.

Methods of Reporting:

- For states that elect to use the DOE/PNNL Rebate Tracker, this data will be automatically received by DOE via the DOE/PNNL API at the time of each transaction.
- For states that elect NOT to use the DOE/PNNL Rebate Tracker, states must submit this data no less than quarterly via the DOE/PNNL API or a spreadsheet with format provided by DOE/PNNL.

Any data components that are not designated as "Report to DOE" must be retained and provided to DOE upon request.

Data Category[1]	Specific Data Element	Suggested Drop-Down Options & Other Information	Required to Report to DOE	Additional Notes
Initiate Rebate Request	Rebate Type[2]	• Modeled Savings • Measured Savings	X	
Initiate Rebate Request	Claimant Type	• Homeowner • Multifamily Building Owner • Contractor • Aggregator	X	
Initiate Rebate Request	Claimant Email			Do NOT share this data point with DOE.
Initiate Rebate Request	Unique Project Identifier		X	
Initiate Rebate Request	Term of rebate reservation		X	Only required for states using DOE workflows
Household Eligibility	Methods Used to Establish Income Qualification	• Social Security Number (with link to IVES) • List of Categorical Eligibility Programs • Pay stubs • Other		Only for applicants requesting income-qualifying rebate levels
Household Eligibility	Number of people in household			Only for applicants requesting income-qualifying rebate levels
Household Eligibility	Income Bucket	• <80% AMI • >=80% AMI	X	DOE/PNNL will provide API for programs to check against up-to-date AMI by address &

[1] Data categories listed refer to components of the workflows listed in Part 5 of this document

[2] If state is offering both 50121 and 50122 rebates, then this question could be part of a combined user interface and the additional option would be the electrification rebates

				occupancy[3]. All programs are REQUIRED to use this API. Only for applicants requesting income-qualifying rebate levels
Home Eligibility	Disadvantaged Community	Yes/No	X	
Household Eligibility	New or Existing Construction	New/Existing	X	
Home Eligibility	Building address			Do NOT share this data point with DOE. Must provide method for non-conventional addresses to be documented and for those households to apply (e.g., some homes on tribal lands or in U.S. territories).
Home Eligibility	Dwelling Type	• Single Family • Multifamily	X	
Home Eligibility	If MF, number of units in building		X	
Home Eligibility	If MF, percent of units that meet <80% AMI bucket	Between 0 and 100	X	
Home Eligibility Information	Year Built	• Before 1940 • 1940-1979 • 1980-2009 • 2010 or later	X	

[3] API will be provided on pnnl.gov/projects/rebatetools

Home Eligibility Information	Conditioned Floor Area of SF Home	• N/A • < 500 sf • 500 – 1000 sf • 1000 – 2000 sf • 3000 – 4000 sf • > 4000 sf	X	
Home Eligibility Information	Conditioned Floor Area of MF Building		X	Enter zero if NOT MF
Home Eligibility Information	Utility bill company(ies)		X	
Home Eligibility Information	Utility Account Number(s)			Do not share with DOE.
Home Eligibility Information	Unique Identifier(s) for Utility Account(s)		X	
Modeled	The 12 months of utility usage data prior to upgrade		X	Not required for non-calibrated models; DOE to provide methods for sharing utility information subject to PII restrictions
Measured	The 12 months of utility usage data prior to upgrade AND the 12 months of utility usage data post-upgrade		X	DOE to provide methods for sharing utility information subject to PII restrictions
Contractor Eligibility	Is contractor eligible?	Yes/No		
Contractor Information	Company Name			
Contractor Information	Company Phone Number			
Contractor Information	Company Email			

Measure Eligibility	Original component(s) details	See Appendix	X	See Appendix A
Measure Eligibility	Home component(s) to be upgraded	• Windows, wall insulation, ceiling insulation, foundation insulation, electrical panel, water heater, heating equipment (select for all heat pumps), cooling equipment, cooktop, clothes dryer, PV, battery (suggest alphabetical)	X	
Measure Eligibility	Current rebate request amount	7 digit maximum		Not required for spreadsheet
Quality Assurance	Proof of quality installation and installation at designated address		X	This should be a geo-tagged photo of installed equipment. Recommend PNNL quality installation tool to meet this requirement.
Final Rebate Payout	Amount of rebate deducted upon proof of installation		X	
Project Cost	Final Project Cost		X	
Project Cost	Equipment & Materials		X	
Project Cost	Installation costs		X	
Project Completion	Project Completion Date		X	
Project Invoice	Project Invoices			
Building Owner Signature	Signature or electronic signature confirming that the improvements were made at the address on the coupon			

Home Since Assessment Data	All home assessment data required	HPXML File		
Modeled Savings	BPI 2400 compliant, DOE approved software used		X	
Modeled Savings	Modeled energy savings		X	
Modeled Savings	Modeled electric energy savings		X	
Modeled Savings	Modeled natural gas energy savings		X	
Modeled Savings	Modeled delivered fuel savings		X	
Modeled Savings	Model inputs and outputs			This refers to the data file with model inputs and outputs.
Home Assessment Data	All home assessment data required	HPXML File	X	
Measured Savings	Software used to estimate energy savings		X	
Measured Savings	Estimated energy savings (at the time of the project)		X	
Home Assessment Data	All home assessment data required	HPXML File	X	
Measured Savings Actual	Measured energy savings		X	
Measured Savings Actual - Portfolio	Measured energy savings (across all fuel types)		X	

Measured Savings	Measured electric energy savings		X	
Measured Savings	Measured Natural Gas energy savings		X	
Measured Savings	Measured Delivered fuel savings		X	

C) 50121 Rebates: Programmatic Data Tracking & Reporting Requirements

The following programmatic data must be tracked by states and/or a designee.

- States must submit this information on a quarterly basis through the DOE PAGE system.
- States can use DOE/PNNL-provided admin access to its centralized rebate database to download information required for any fields noted with an "X".
- Data in the DOE/PNNL central rebate database will be –
    - updated live for those states that use the DOE-provided workflows; and,
    - updated quarterly for those states that submit the data required in part (b) via the API or DOE-provided spreadsheet.

States can use the DOE central database they can assemble this information via DOE-provided admin access where noted in the right column.

Data Element	Details if applicable	Can be downloaded from DOE central database
Total administrative Spend		
Other funds leveraged?	yes/no	
Type/Source of other funds (if applicable)		
Amount of leveraged funds		
Number of $200 Installer Bonuses		
Other project-related costs		

List of qualified contractors	Provide a link to a live list that the state will keep updated	
Rebate funds allocated		X
Number of homes receiving rebates		X
Number of projects by LMI		X
Number of projects by DAC		X
Number of single-family projects		X
Number of multi-family projects		X
Rebate funding to LMI households		X
Rebate funding to DAC households		X
Rebate funding to single family projects		X
Rebate funding to multi-family projects		X
Portfolio energy savings (modeled only)		X
Portfolio energy savings (measured only)		X

D) 50121 Rebates: Application Programming Interface (API) Requirements

E) The application programming interface (API) requirements are defined in a living document and located on this webpage: PNNL.gov/projects/rebatetools. For the HOMES program, be sure to download the HTML file titled "API_HOMES".

F) Note: DOE/PNNL will notify all API users of API updates, with the goal of ONLY updating the API on an annual basis (if needed). Interim updates may be required should program requirements be modified or a functional problem is found.

Part 2: Home Electrification & Appliances Rebates

A) 50122 Rebates: Pre-Launch Information Requirements

States or their designees must provide all of the following information via the DOE/PNNL administrative portal/central API BEFORE launching its 50122 program. Within that portal, DOE/PNNL will provide a web form for states to respond to these questions.

Pre-Launch Data Details	Additional information
Anticipated program launch date	
If your state is working with a program implementer and/or software vendor(s) to offer the IRA rebates, please provide their name(s).	
Do you plan to integrate your IRA rebates with any other existing state-wide rebate programs?	Yes/No
If yes, please provide more detail	
Will your state offer the 50122 electrification rebates?	Yes/No
How much funding does the state initially want to allocate to the 50122 electrification rebates?	
What percent of its electrification fund allocation does the state want to reserve for households with income <80% AMI?	
If reserving funds specifically for rental properties, what percent of its 50122 electrification rebates does the state want to reserve for single family homes not occupied by the owner?	
What percent of its 50122 electrification rebates does the state want to reserve for multifamily building owners?	
Which electrification rebates will the state offer?	Windows, wall insulation, ceiling insulation, foundation insulation, electrical panel, water heater, heating equipment (select for all heat pumps), cooling equipment, cooktop, clothes dryer, PV, battery

If the state plans to reserve portions of the total rebate funds for specific products, what percentage of funds does the state want to reserve for each product that will be covered by the rebates?	
What is the maximum amount that the state will offer for each rebate type for single family homes?	
What is the maximum amount that the state will offer for each electrification rebate in multifamily buildings?	
How does the state plan to fulfill the photo documentation QA requirements?	DOE QA tool, other QA process
Map of DACs for the state	PNNL to provide formatting for this element at *pnnl.gov/projects/rebatetools*. If using CESJT to define DAC locations, this does NOT need to be provided.

B) 50122 Rebates: Transaction Data Collection & Reporting Requirements

The table below lists all of the data that is required to be collected by the state or a third party for each rebate transaction associated with the 50122 rebates.

- All the following data elements must be collected and retained by the state or its implementer.
- Some of the following data elements must ALSO be reported to DOE.
- Note that a state can elect to share any of the following data elements with DOE via the API or standardized spreadsheet unless otherwise noted.

Methods of Reporting:

- For states that elect to use the DOE/PNNL Rebate Tracker, this data will be automatically received by DOE via the DOE/PNNL API at the time of each transaction.
- For states that elect NOT to use the DOE/PNNL Rebate Tracker, states must submit this data no less than quarterly via the DOE/PNNL API or a spreadsheet with format provided by DOE/PNNL.

Any data components that are not designated as "Report to DOE" must be retained and provided to DOE upon request.

Data Category	Specific Data Element	Suggested Drop-Down Options or Coding	Report to DOE	Additional Notes
Rebate Initiation	Rebate Type[4]	Electrification	X	
Rebate Initiation	Claimant Type	• Homeowner • Multifamily Building Owner • Contractor	X	
Rebate Initiation	Claimant Email			
Rebate Initiation	Unique Project Identifier		X	Information regarding creation of unique project ID will be provided in the API documentation and the PNNL web page (pnnl.gov/projects/rebatetools)
Occupant Basic Info	Permission to share energy data with State and DOE for evaluation purposes		X	

[4] If state is offering both 50121 and 50122 rebates, then this question could be part of a combined user interface and the additional option would be the electrification rebates

Occupant Basic Info	Owner or Renter Occupied			
Rebate Initiation	Term of Rebate Reservation		X	This refers to the number of months that a coupon will be valid. Only required for states using DOE workflows.
Household Eligibility	Methods Used to Establish Income Qualifications	• Social Security Number (with link to IVES) • List of Categorical Eligibility Programs • Pay stubs • Other		See list of categorically eligible programs in document referenced in the DOE Requirements Document for Rebate Programs (ALRD #2)
Household Eligibility	Disadvantaged Community	Yes/No	X	If the state uses the DOE map (CEJST) for designating Disadvantaged Communities, this additional data field is optional. If the state uses a different method for designating Disadvantaged Communities, the state must provide their map with designated disadvantaged communities to DOE/PNNL and/or include this data field separately in their data collection and reporting.
Household Eligibility	New or Existing Construction	New/Existing	X	

Household Eligibility	Number of people in household			• See information on DOE/PNNL link for AMI by location & occupancy
Household Eligibility	Income Bucket	• <80% • 80% AM I<=X <150% AMI	DNS	• See information on DOE/PNNL link for AMI by location & occupancy. Do not share this information with DOE.
Home Eligibility	Building address		DNS	• Do not share this information with DOE. • Must provide method for non-conventional addresses to be documented and for those households to apply (e.g., some homes on tribal lands or in U.S. territories).
Home Eligibility	Unique Address Identifier		X	Information regarding creation of unique address ID will be provided in the API documentation and the PNNL web page (pnnl.gov/projects/rebatetools)
Home Eligibility	Dwelling Type	• Single Family • Multifamily	X	
Home Eligibility	If MF, is project applied to entire building or one unit?	• Whole Building • One Unit		

Home Eligibility	If entire MF building, number of units in building		X	
Home Eligibility	If entire MF building, percent of units that are in <80% AMI bucket or are in the >80% AMI and <150% AMI bucket	Between 0 and 100	X	
Home Eligibility	If single unit in MF building, what's the income bucket of tenant in that unit?	• <80 % AMI • >80% AMI and <150% AMI	X	
Home Eligibility	If single unit in MF building, what's unit number?		X	
Home Eligibility	Prior IRA rebated amounts	7 digit maximum		
Home Eligibility Information	Year Built	• Before 1940 • 1940-1979 • 1980-2009 • 2010 or later	X	
Home Eligibility Information	Conditioned Floor Area of home	• N/A • < 500 sf • 500 – 1000 sf • 1000 – 2000 sf • 3000 – 4000 sf • > 4000 sf	X	

Home Eligibility Information	Conditioned Floor Area of MF Building		X	If not MF, enter zero
Home Eligibility Information	Utility bill company		X	
Home Eligibility Information	Utility Account Number(s)			
Home Eligibility Information	Unique Identifier(s) for Utility Account(s)		X	
Contractor Eligibility (If applicable)	Is contractor eligible?	Yes/No		
Contractor Information	Company Name			
Contractor Information	Company Phone Number			
Contractor Information	Company Email			
Measure Eligibility	Upgrade Type	• Envelope improvements (e.g., wall insulation, ceiling insulation, air sealing, duct sealing) • Electrical panel • Heat pump water heater • Air Source Heat Pump	X	

		• Heat Pump Clothes Dryer • Electrical wiring upgrade • Electric stovetop		
Measure Eligibility	Original component details	See Appendix	X	See Appendix A This refers to the equipment that is either being replaced or supplemented in the home.
Measure Eligibility	Rebate reservation amount	7 digit maximum		Not required for spreadsheet
National Retailer	Vendor Name (if applicable)	• Ace • Home Depot • Lowes • Distributor X • Distributor Y • Additional options as needed	X	Add other options as APIs are connected by other large vendors
Rebate Redemption at Point of Material or Equipment Purchase	Amount of rebate deducted upon material purchase		X	Only applicable if coupon used at point of sale of equipment/materials
Rebate Redemption at Point of Material or Equipment Purchase	Purchase date		X	Only applicable if coupon used at point of sale of equipment/materials Required for each upgrade/measure

Rebate Redemption at Point of Material or Equipment Purchase	Purchased item universal product code (UPC)		X	Only applicable if coupon used at point of sale of equipment/materials Required for each upgrade/measure
Rebate Redemption at Point of Material or Equipment Purchase	Purchased item description as seen on receipt or invoice		X	Required for each upgrade/measure Required if no UPC
Rebate Redemption at Point of Material or Equipment Purchase	Purchased item cost		X	Only applicable if coupon used at point of sale of equipment/materials Required for each upgrade/measure
Rebate Redemption at Point of Installation	Project invoice			If rebate is used at point of installation
Rebate Redemption at Point of Installation	Final project cost			If rebate is used at point of installation
Rebate Redemption at Point of Installation	Equipment and materials cost			If rebate is used at point of installation
Rebate Redemption at Point of Installation	Installation costs			If rebate is used at point of installation
Quality Assurance	Proof of quality installation and installation at designated address		X	This should be a geo-tagged photo of installed equipment. Recommend PNNL quality installation tool to meet this requirement.

Projection Completion	Project completion date			
Final Rebate Payout	Amount of rebate deducted upon proof of installation		X	Required for each upgrade/measure
Project Scope Info	Installation cost (enter N/A if homeowner-installed)		X	
Home Assessment Data	All home assessment data required for project type	HPXML File		Optional and only applicable when home assessment is required/performed
Building Owner Signature	Signature and/or electronic signature confirming that the improvements were made at the address on the coupon			Required when installation performed by a contractor

C) 50122 Rebates: Programmatic Data Tracking & Reporting Requirements

The following programmatic data must be tracked by states and/or a designee.

- States must submit this information on a quarterly basis through the DOE PAGE system.
- States can use DOE/PNNL-provided admin access to its centralized rebate database to download information required for any fields noted with an "X".

- Data in the DOE/PNNL central rebate database will be –
    - updated live for those states that use the DOE-provided workflows; and,
    - updated quarterly for those states that submit the data required in part (b) via the API or DOE-provided spreadsheet.

States can use the DOE central database they can assemble this information via DOE-provided admin access where noted in the right column.

Data Element	Details if applicable	Can be downloaded from DOE central database
Total administrative Spend		
Other funds leveraged?	yes/no	
Type/Source of other funds (if applicable)		
Amount of leveraged funds		
Number of $500 Installer Bonuses		
Other project-related costs		
List of qualified contractors	Provide a link to a live list that the state will keep updated	
Rebate funds allocated		X
Number of homes receiving rebates		X
Number of projects by LMI		X
Number of projects by DAC		X
Number of single-family projects		X
Number of multi-family projects		X
Rebate funding to LMI households		X
Rebate funding to DAC households		X
Rebate funding to single family projects		X
Rebate funding to multi-family projects		X

These will be collected as part of the state's quarterly progress reporting as required in the FARC (Financial Assistance Reporting Checklist).

D) 50122 Rebates: Application Programming Interface (API) Requirements

The application programming interface (API) requirements are defined in a living document and located on this webpage: PNNL.gov/projects/rebatetools. For the Electrification program, be sure to download the HTML file titled “API_Electrification”. Note: DOE/PNNL will notify all API users of API updates, with the goal of ONLY updating the API on an annual basis (if needed). Interim updates may be required should program requirements be modified or a functional problem is found.

Part 3: Recommended, Optional Reportable Fields

DOE recommends states collect the following fields. DOE's API will also accept the following data SHOULD the state wish to collect any of this information as part of their program implementation. This information may be useful to DOE for evaluation purposes and other analytics.

Data Category	Specific Data Element	Suggested Options	Notes
Project Scope Info	Jurisdiction		
Project Scope Info	Permit Number		
Contractor Information	State Qualified Contractor Type	• None • Energy auditor/energy modeler • Home performance contractor • Plumber • Electrician • HVAC contractor	
Contractor Information	State Qualified Contractor License Number		

Part 4: Functionality Needed for Successful IRA Implementation

Program implementers will require a combination of personnel and IT systems to facilitate rebate transactions authorized in Sections 50121 and 50122 of the Inflation Reduction Act (IRA). At a minimum, IT systems are required to provide the following functions in full or in part:

- Provide user interfaces for a variety of stakeholders such as building owners, occupants, contractors. Note that implementers should rely on user-centered design principles, use plain language, meet accessibility requirements, and provide translation options for non-native English speakers.
- Initiate rebate transaction
- Generate unique house ID linked to home address
- Determine home and household eligibility through steps including –
    - Verify address submitted
    - Compare household income to AMI levels associated with zip code and number of occupants
    - Accept and review information regarding a household's enrollment in programs that establish income eligibility
    - Confirm that the individual(s) associated with the income information live at the submitted home address
    - Compare rebate request to data on IRA home energy rebates already applied at that address
    - Determine number of units if multifamily building
- Confirm contractor eligibility if applicable
- Determine eligibility of proposed improvement
    - product type (e.g., water heater, induction cooktop)
    - home's existing system that will be replaced or displaced
    - product specifications
- Collect virtual signatures from occupants and building owners attesting to accuracy of submitted information
- Confirm if the rebate will be used at point of purchase with a listed or non-listed vendor
- Generate coupons/rebates for national retailers, qualified contractors, and non-listed vendors
  Remit payments to contractors and vendors for used rebate coupons
- Link IT systems via APIs
- Store and report required data

IT systems may also be designed to offer additional functionality such as –

- Accept geo-located photos of installed equipment

- Accept home assessment data
- Accept home energy models
- Accept information regarding measured savings
- Accept utility bills from homes where rebates have been applied

Part 5: Rebate Tracking, Processing & Reporting Workflows

DOE/PNNL have developed workflows that describe how each software component, each actor and each action must work together to complete a rebate transaction. The expectation is that the state and/or its delegate will use the provided workflows UNLESS they get written approval from DOE and/or PNNL to use different workflows.

The table below lists the conditions associated with each rebate use case. Workflows can be viewed on the PNNL webpage here: https://www.pnnl.gov/projects/rebate-tools

Use Case / Workflow Number	Rebate Type	Claimant	API with Vendor	Building Type	Owner-Occupied?
1	Measured	Installer/Aggregator with Homeowner	No	Single family	Yes
2	Measured	Installer/Aggregator with Homeowner	No	Single family	No
3	Measured	Installer/Aggregator with Homeowner	No	Multifamily	No
4	Modeled	Installer/Aggregator with Homeowner	No	Single Family	Yes
5	Modeled	Installer/Aggregator with Homeowner	No	Single Family	No
6	Modeled	Installer/Aggregator with Homeowner	No	Multifamily	No
7	Electrification	Installer with Homeowner	Yes	Single Family	Yes
8	Electrification	Installer with Homeowner	Yes	Single Family	No
9	Electrification	Installer with Homeowner	Yes	Multifamily	No
10	Electrification	Installer with Tenant	Yes	Multifamily	No
11	Electrification	Homeowner	Yes	Single Family	Yes
12	Electrification	Installer with Homeowner	No	Single Family	Yes
13	Electrification	Installer with Homeowner	No	Single Family	No
14	Electrification	Installer with Homeowner	No	Multifamily	No
15	Electrification	Installer with Tenant	No	Multifamily	No
16	Electrification	Homeowner	No	Single Family	Yes

Please note, that in addition to the restrictions for combining other funding sources, there are a few restrictions within the IRA rebates that should be communicated to contractors and consumers within the user interface.

1. A single address cannot receive both a measured and a modeled rebate under 50121

2. A single address cannot receive a rebate from both HOMES (50121) and Electrification (50122) for the same measure. To implement this, the DOE database will not allow the following:
    a. No electrification rebates will be made for addresses that are in the process of receiving a rebate for measured savings (and vice versa).
    b. No electrification rebates will be made for addresses where a modeled rebate has already been given for that measure.

Learn More

Visit the **Home Energy Rebates website** to learn more information about these programs and to sign up to **receive email updates**.

Questions about these rebate programs can be **submitted online** or sent to **IRAHomeRebates@hq.doe.gov**

Appendix

Data requirements associated with original and upgraded component for both 50121 and 501225 (only a limited set of these fields are required for DIY 50122 projects) details.

Upgrade Type (only ask questions that are relevant to the previously chosen upgrade type)	Question	Original Component Details	Upgraded Component Details
Envelope Improvements – Wall Insulation	What is the existing insulation in the walls?	*Dropdown* None Cavity insulation (batt or blown-in) Fanfold insulation Exterior continuous insulation Don't know	
Envelope Improvements – Wall Insulation	What insulation was added to the walls?		*Checkboxes because someone might add more than one of these* Batt insulation – R-13 Batt insulation – R-19 Batt insulation – R-21 Exterior continuous insulation – 1 inch Exterior continuous insulation – 2 inches Exterior continuous insulation – more than 2 inches Other – please describe

[5] Only a limited set of these fields are required for DIY 50122 projects.

Envelope Improvements – Ceiling insulation	What is the existing insulation in the walls?	*Dropdown* None Batt insulation Blown-in insulation Rigid board insulation Closed cell spray foam insulation Don't know	
Envelope Improvements – Ceiling insulation	What insulation was added to the ceiling?		*Dropdown* Batt or blown-in insulation – R-19 Batt or blown-in insulation – R-30 Batt or blown-in insulation – R-49 Batt or blown-in insulation – R-60 Batt or blown-in insulation – more than R-60 Closed cell Spray foam insulation - R-30 Closed cell spray foam insulation – R-49 Closed cell spray foam insulation – R-60 Closed cell spray foam insulation – more than R-60 Other – please describe
Envelope improvements – Air sealing	What part of the home are you air sealing?		*Checkboxes* Attic Walls/Windows/Doors Foundation

Envelope improvements – Air sealing	What is the starting air leakage rate for the home before modification?	*Fill in the blank* CFM at 50Pa ___________ Don't know	
Envelope improvements – Air sealing	What is the air sealing level you have achieved?		*Fill in the blank* CFM at 50Pa ____________ Don't know
Envelope Improvements – Duct sealing	What is the starting duct leakage rate before modification?	*Fill in the blank* CFM at 25Pa ___________ Don't know	
Envelope Improvements – Duct sealing	What is the duct sealing level you have achieved?		*Fill in the blank* CFM at 25Pa ___________ Don't know
Electrical Panel	What are the details about the existing electrical panel?	*Fill in the blank* Max Amps to household______ Number of open breaker spots________	
Electrical Panel	What are the details of the new electrical panel?		*Fill in the blank* Max Amps to household ____ Number of open breaker spots ______
Heat Pump Water Heater	What is the fuel type of your existing water heater?	*Dropdown* Gas storage Gas tankless Electric storage Oil	
Heat Pump Water Heater	What is the storage capacity before and after?	*Dropdown* 45 gal 50 gal	*Dropdown* 45 gal 50 gal

		60 gal 80 gal Other (fill in the blank)	60 gal 80 gal Other (fill in the blank)
Air Source Heat Pump	What is the fuel type of your existing heating system?	*Dropdown:* Gas Oil Electric	
Air Source Heat Pump	What is your existing heating system type?	*Dropdown:* Forced Air Hydronic/Steam Baseboard	
Air Source Heat Pump	What type of heat pump was installed?		*Dropdown:* Mini-split system with backup Mini-split system without backup Central system with backup Central system without backup
Air Source Heat Pump	What percent of the heating load will this system cover?		*Fill in the blank (0-100%)*
Air Source Heat Pump	What is the heating capacity of new heat pump system? (BTU/hr)		*Fill in the blank*
Air Source Heat Pump	What is the cooling capacity of the new heat pump system? (BTU/hr)		*Fill in the blank*
Heat Pump Clothes Dryer	What is the existing dryer fuel type?	*Dropdown:* Gas Electric	

Heat Pump Clothes Dryer	What is the annual energy use estimated on the EnergyGuide label? (kWh/yr)		*Fill in the blank*
Electric Stovetop/Oven/Range	What is the fuel type of the existing stovetop/oven/range?	*Dropdown:* Gas Electric	