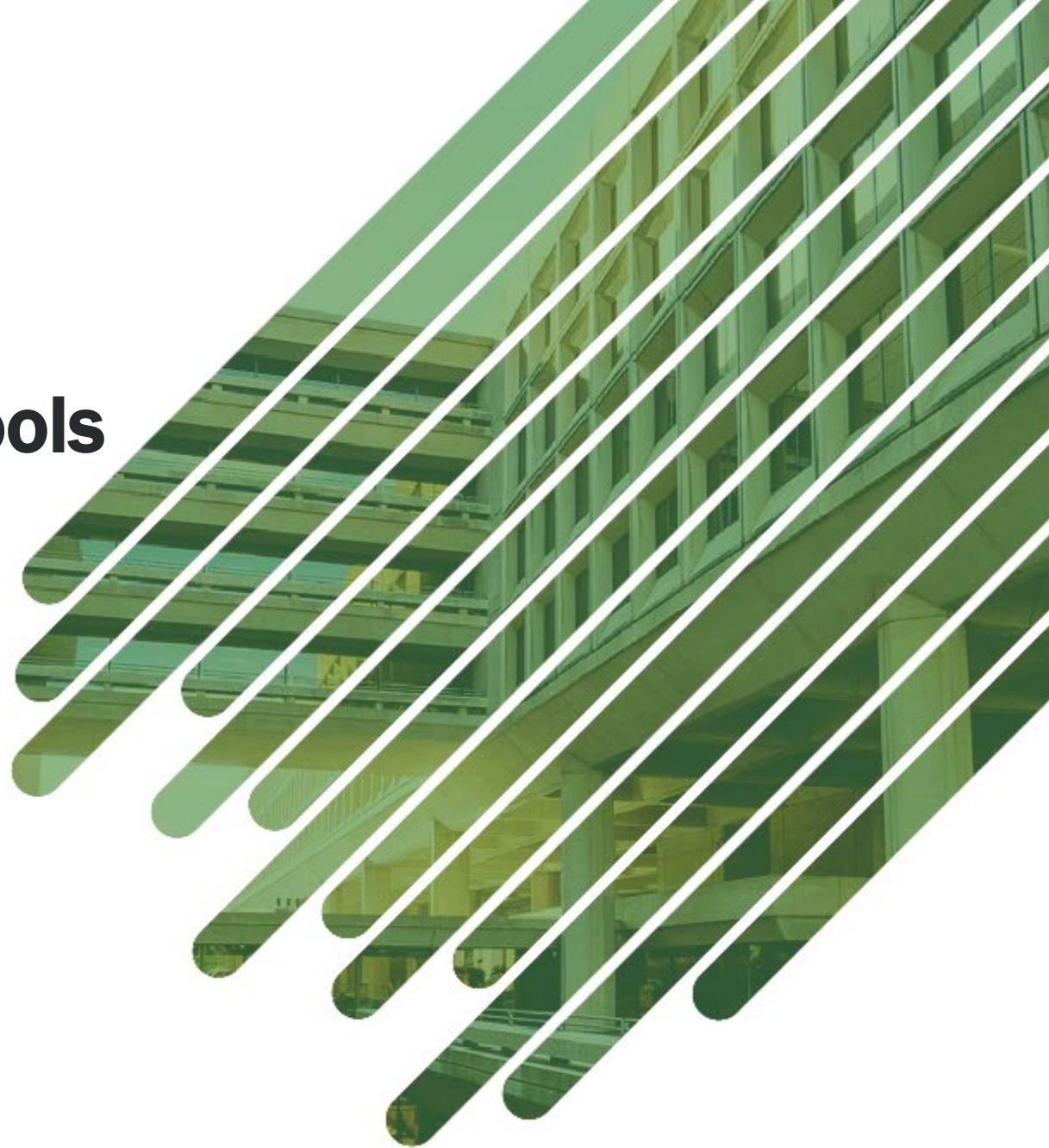




U.S. DEPARTMENT OF
ENERGY

Rebate Processing & Tracking Tools



Agenda

- Introduction to IRA Home Rebates
- Guiding Principles for Database and Workflow Development
- Basics IT Needs to Process IRA Rebates
- Roles/Responsibilities
- Preview of Workflows
- Draft API Overview
- Feedback Form

Support Team

Karen Zelmar



DOE- Home Rebates Program Supervisor

Clean Energy, Electrification and Mobility Leader in the U.S. Department of Energy (DOE) Office of State and Community Energy Programs (SCEP)

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DOE- Senior Advisor

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PNNL- Advisor

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PNNL- Computer Scientist

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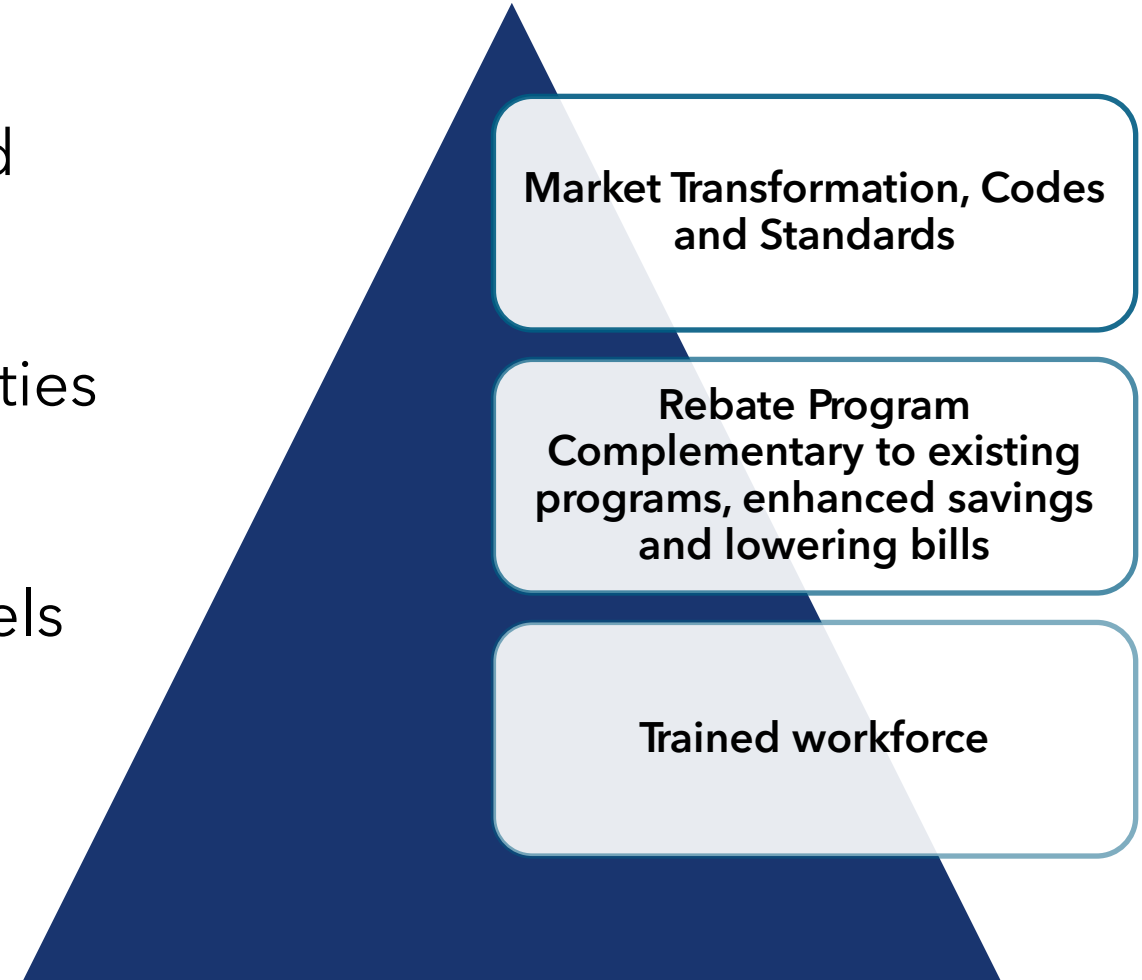


PNNL- Senior Building Research Engineer

PNNL Project Manager

High Impact Goals of Inflation Reduction Act

- Reduce home energy bills
- Home energy market transformation and activate the private market
- Successful collaboration with States, utilities and existing programs
- Successful transition to more efficient fuels and technologies
- Economic opportunities for workers and business



Quick Intro: Residential Efficiency Rebates (HOMES)

- Rebates vary with the energy savings from the household improvements.
- A wide range of energy-saving upgrades can be included.
- Low-income* households can access up to \$8,000, while other households can access up to \$4,000.

LOW-INCOME HOUSING*

- Projects with energy savings between 20% and 35%:
 - ✓ **80%** of costs up to **\$4,000** per home or housing unit
- Projects with energy savings greater than 35%:
 - ✓ **80%** of costs up to **\$8,000** per home or housing unit

MARKET RATE HOUSING

- Projects with energy savings between 20% and 35%:
 - ✓ **50%** of costs up to **\$2,000** per home or housing unit
 - ✓ **\$200,000** cap for multifamily building
- Projects with energy savings greater than 35%:
 - ✓ **50%** of costs up to **\$4,000** per home or housing unit
 - ✓ **\$400,000** cap for multifamily building

* Low income is defined as single family households with incomes less than 80% area median income, as well as multifamily housing with more than 50% of households having incomes less than 80% area median income.

Quick Intro: Residential Electrification Rebates (HEERHA)

Rebates provide low- and moderate-income families ONLY up to \$14,000 total for products like electric heat pumps, electric stoves, and more.

- ✓ More than 70 percent of U.S. households are eligible for these rebates.
- ✓ Rebates cover up to 100% of costs for low-income households*
- ✓ Rebates cover up to 50% of costs for moderate-income households*
- ✓ Rebates cannot exceed the caps listed in the table.

Rebate Type	Equipment/Service	Maximum Rebate \$ Amount
Appliance Upgrades	Heat Pump Water Heater	\$1,750
	Heat Pump for Space Heating or Cooling	\$8,000
	Electric Stove, Cooktop, Range, Oven, or	\$840
	Electric Heat Pump Clothes Dryer	\$840
Non-appliance Upgrades	Electric Load Service Center Upgrade	\$4,000
	Insulation, Air Sealing, and Ventilation	\$1,600
	Electric Wiring	\$2,500
Maximum total across all upgrades per home or unit		\$14,000

*Low-income household defined as below 80% of area median income; moderate-income defined as between 80% and 150% of area median income.

Guiding Principles for Database and Workflow Development

- Simplify the process for rebate stakeholders
 - States, homeowners, retailers/vendors, contractors, others
- Minimize reporting burden
- Ensure consistent data for tracking & evaluation
- Leverage private sector expertise
 - Rebate processing
 - Income verification
 - User interfaces
 - Other

Basic Needs to Process & Track Rebates

- Initiate a rebate reservation for a specific address
- Verify income eligibility
- Verify eligibility of home address
- Verify contractor eligibility (where applicable)
- Ensure rebates applied to eligible products & services
- Ensure appropriate dollar amount per product/service/home
- Adhere to caps per measure and/or per home as directed by each state
- Process rebate payments
- Track total amount of rebates processed for a particular address

Planned National & State Development Responsibilities

Function	DOE/PNNL Development	State-Led (with Private Sector)
National Home Rebate Ledger/Database (Address ID, Rebates)	X	
Household Income Verification		X
User Interfaces for Homeowners & Contractors (& others if needed)		X
AMI by Zip Code and Number of Occupants	X	
Rebate Reservations	X	
Rebate Payments		X
Application Programming Interfaces (APIs) to Link Systems	X	X
Administrative Functionality for States & Program Implementers	X	

Roles: DOE/PNNL & States

- DOE plans to develop a national tool and API to simplify
 - Rebate generation
 - Point of sale use and national retailer participation
 - Adherence to individual household rebate limits (e.g., \$14K/household in 50122)
 - Use of rebate reserves (e.g., minimum %'s for low income, multifamily)
 - State reporting (e.g., total rebates, types, rebates to low income/DACs/multifamily)
- * States are NOT required to use full capabilities of DOE tool, but must use API for certain data reporting requirements
- States will work with experienced implementers and IT firms to –
 - Verify income
 - Link to DOE AMI search engine by zip code & number of occupants
 - Process rebate payments to retailers, contractors, aggregators
 - Integrate with national system using DOE data specifications & documentation

State-Led Income Verification

- Allow a number of different methods to verify income
 - W2, pay stubs, income tax
 - Income tax information – use of IVES with 24-48 hour processing
 - Proof of enrollment in pre-qualifying programs (e.g., SNAP, WIC)
 - Self-attestation of income and/or enrollment in pre-qualifying program
- QA requirements still under development
 - Likely to allow states to confirm information AFTER providing an instant rebate along with applicant signature
- Leverage private sector expertise
 - DOE is not in the position to do this type of processing
 - Many private sector organizations experienced in this type of QA/processing
- Longer term: Develop a “real-time” query system with IRS
 - This would only work for applicants who pay taxes and therefore would still require some entity to process the information and conduct QA

Workflows

- Multiple detailed workflows will be provided to demonstrate process/linkages between state & national system.
- Vary depending on type of rebate, applicant type, point of purchase, contractor involvement, and approach to savings calculation.
- Engaging relevant stakeholders to ensure easy-to-use, easy-to-integrate system
- Next slides provide sample high-level workflow for electrification rebates

High-Level Workflow (Electrification)

Rebate Application Initiated

Household Income Eligibility

Name
Phone number
SSN
Income verification method
Household income bucket
Signed declaration for SF & MF attesting "truth" and DOE access to utility bills unless opting out

Contractor Eligibility

Qualified Contractors List (if applicable)

Home Eligibility

Building Address
Dwelling Type
MF -- #units
Prior IRA rebated amounts & types at this address (if applicable)

Measure Eligibility

Product Type
Proposed upgrade details (e.g., replacing non-electric or non-heat pump)
Other Federal funds used for this upgrade

To Generate Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)(if applicable)
Home Eligibility
Measure Eligibility
Vendor Name (if applicable)

What is on the Coupon?

Value: \$/% amount
Product Type
Building Address Identifier
Vendor (if applicable)

High-Level Workflow (Electrification, cont.)

To Generate a Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)(if applicable)
Home Eligibility
Measure Eligibility
Vendor Name (if applicable)



Point of Sale Transaction

Amount of rebate deducted
Additional receipt or invoice information e.g., date of purchase, product price, model #, UPC

Installation/Remote QA

Picture of existing equipment (if applicable)
Pictures of new equipment
Picture of model and serial number
Homeowner signature confirming that product was installed at their property and rebate reservation amount was deducted from their bill



Rebate Reimbursement: State Pays Contractor/Vendor

Receipt or invoice information
Installation pictures PDF
Vendor/Contractor (if applicable)

Key:

- If using API or DOE tool, DOE will get orange-text data automatically
- If NOT using DOE tools, states to retain it or send it separately if needed by DOE

High-Level Workflow (Modeled)

Rebate Application Initiated

Household Income Eligibility for <80% AMI Only

Name
Phone number
SSN
Income verification method
Household income bucket
Signed declaration for SF & MF attesting "truth" and DOE access to utility bills unless opting out

Home Eligibility

Building Address
Dwelling Type
MF -- #units
Prior IRA rebated amounts & types at this address

Contractor Eligibility

Qualified Contractors List

Modeled Savings

BPI 2400 software used
Building asset data (input file)
Modeled energy savings*

To Generate Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)
Home Eligibility
Modeled Energy Savings

What is on the Coupon?

Value: \$/% amount
Product Type
Building Address Identifier

High-Level Workflow (Modeled cont.)

To Generate a Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)
Home Eligibility
Modeled Energy Savings

Upgrade Completion

Amount of rebate deducted
Additional receipt or invoice

Installation/Remote QA

Picture of existing equipment
Pictures of new equipment
Picture of model and serial number
Homeowner signature confirming that product was installed at their property and rebate reservation amount was deducted from their bill

Rebate Reimbursement: State Pays Contractor

Receipt or invoice information
Installation pictures PDF

Key:

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High-Level Workflow (Measured)

Rebate Application Initiated

Household Income Eligibility for <80% AMI Only

Name
Phone number
SSN
Income verification method
Household income bucket
Signed declaration for SF & MF attesting "truth" and DOE access to utility bills unless opting out

Home Eligibility

Building Address
Dwelling Type
MF -- #units
Prior IRA rebated amounts & types at this address

Contractor Eligibility

Qualified Contractors List

Estimated Savings

Estimated energy savings

To Generate Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)
Home Eligibility
Estimated Energy Savings

What is on the Coupon?

Value: \$/% amount
Product Type
Building Address Identifier

High-Level Workflow (Measured cont)

To Generate a Rebate Reservation

Household Income Bucket
Contractor Eligible (yes/no)
Home Eligibility
Estimated Energy Savings



Measured Savings

Weather normalized utility bill calculation

Installation/Remote QA

Picture of existing equipment
Pictures of new equipment
Picture of model and serial number
Homeowner signature confirming that product was installed at their property and rebate reservation amount was deducted from their bill



Rebate Reimbursement/
State Pays Contractor

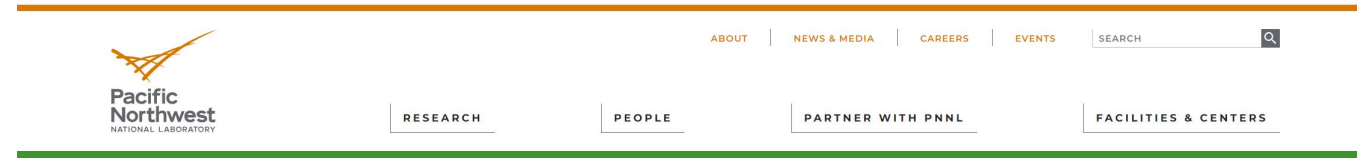
Receipt or invoice information
Installation pictures PDF
Measured savings amount

Key:

- If using API or DOE tool, DOE will get orange-text data automatically
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Webpage for IT Experts – PNNL.gov/projects/rebate-tools

- Download Draft API HTML
 - Only Electrification for now
 - HOMES coming soon
 - Provides examples of what the tool might ask for
- Email feedback on API
- Download draft workflows
- FAQ will be added after this presentation



Home Energy Rebate Tools

Pacific Northwest National Laboratory (PNNL) supports the U.S. Department of Energy's (DOE's) Office of State and Community Energy Programs' (SCEP) Home Energy Rebate team. PNNL's primary role is to assist in the development of the program's national database and the associated Application Programming Interface (API) that can be used to connect to it. We are also establishing process workflows for the Home Energy Rebate programs.

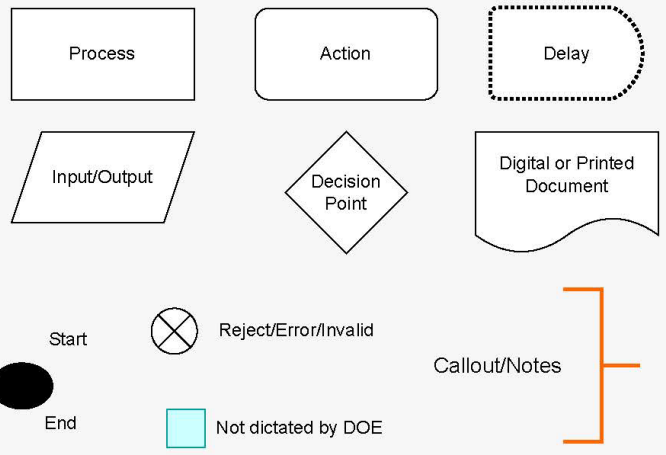


At PNNL, our goal is to help the Home Energy Rebate programs operate smoothly and efficiently. To achieve this, we recognize the importance of gathering stakeholder feedback throughout the development process. We value your input and encourage you to share your thoughts, suggestions, and concerns to help shape the system before its final implementation.



Detailed Workflows

Columns indicate the entity performing the task described and all associated IT buildout necessary to complete the task.



All **REQUIREMENTS** can be found in the Tools Requirements Document

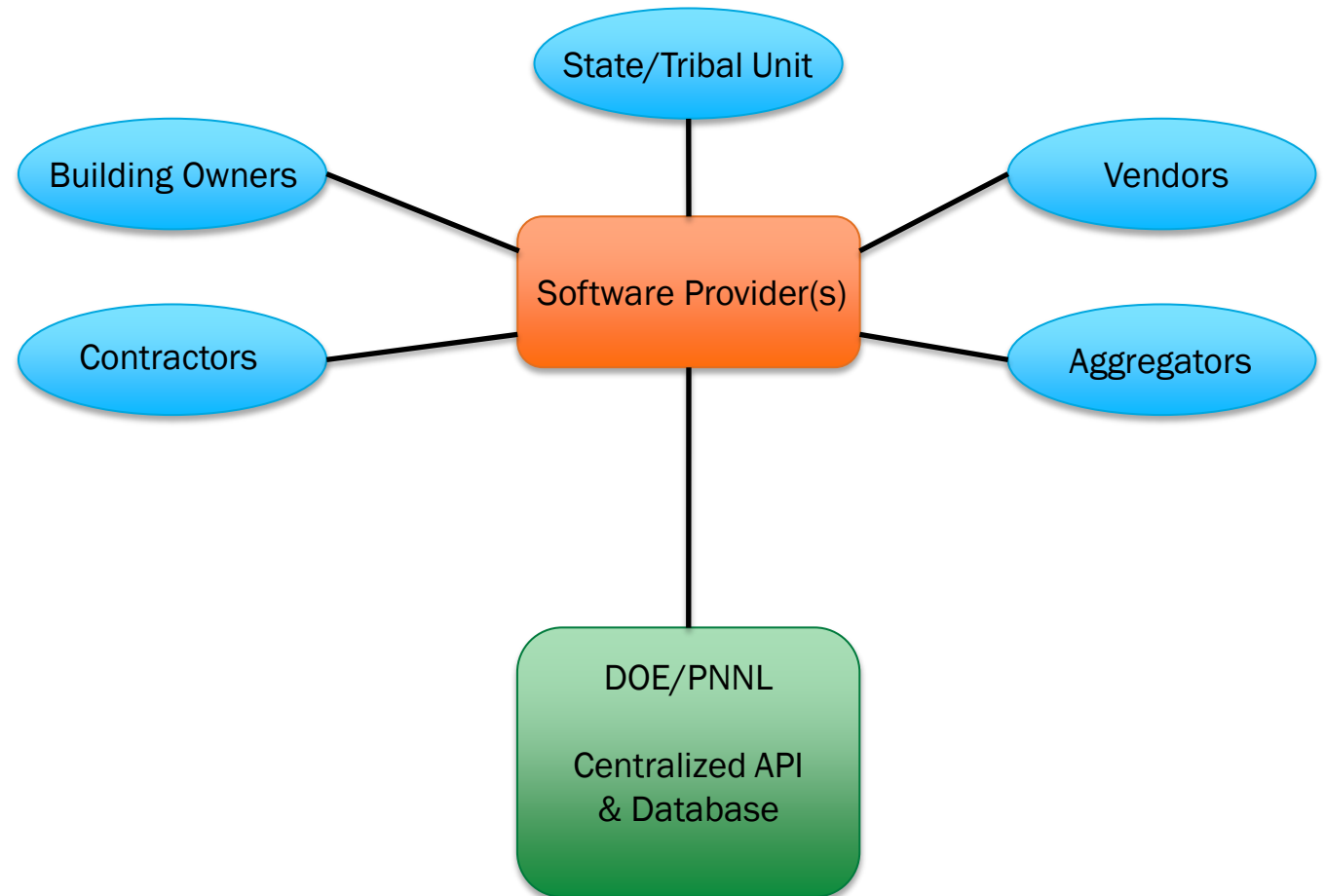
Title						
Tenant	Building Owner	Installer	Vendor	State	3rd Party Back End	DOE Back End

DOE/PNNL Centralized Draft API Overview

- Provides examples of what the tool might ask for
- A REST API
- OpenAPI (Swagger) Documentation
- Seeking feedback on draft documentation for electrification rebate portion of the API (reservations and redemptions)
<https://www.pnnl.gov/projects/rebate-tools>

Design Philosophy:

- As simple as possible to use
- As flexible as needed



Feedback/Questions Survey

- Please provide your feedback using the QR code or link below.



<https://forms.gle/d8XhATJ7b31Jgkiz7>

- After feedback is received, a Frequently Asked Questions (FAQ's) section will be added to the webpage