Hawaiian Electric

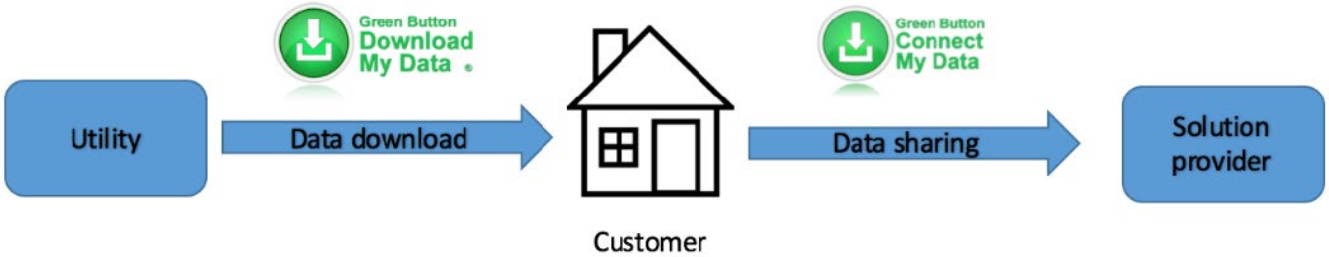
Green Button Connect My Data Webinar

Agenda

- Green Button Overview
- Third Party Registration
- Customer Journey
- Lessons Learned as Third Party (Hawaii Energy)
- Q&A

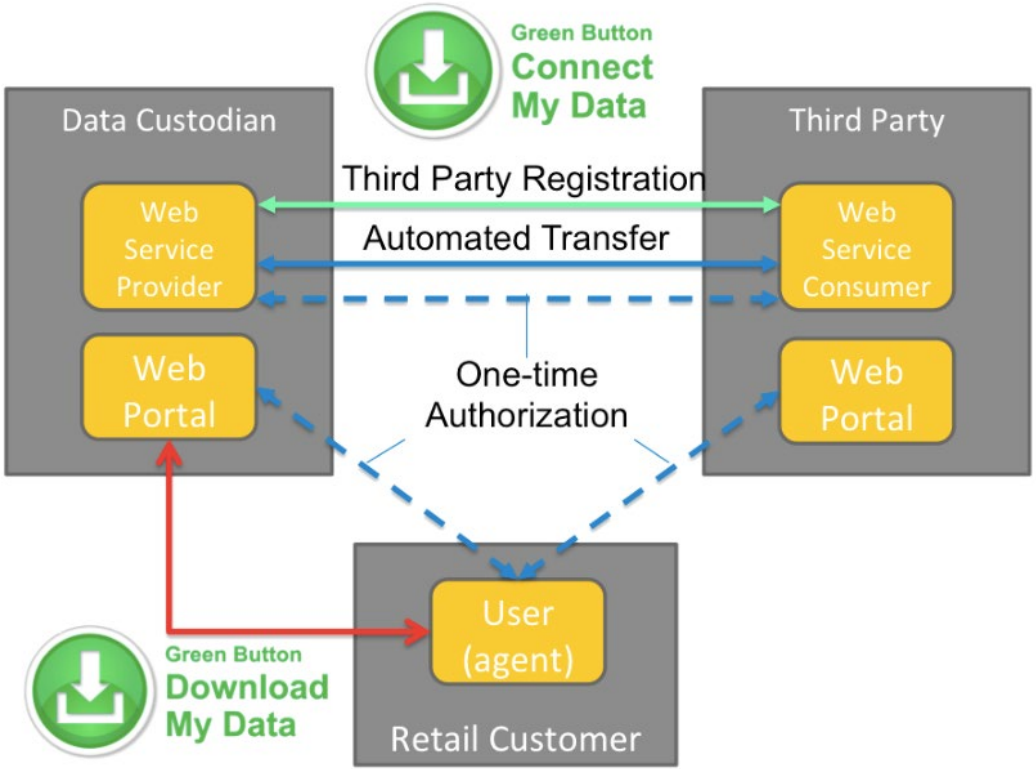
Green Button

- Green Button is the energy industry standard for enabling customers to easily download and securely share their energy usage data
- Solution provider able to offer better, data-driven customized solutions based on higher fidelity advanced metering data set
  - Almost 470K Hawaiian Electric customers will have advanced meters by Q3 2024
- This webinar will cover the Data Sharing component



Source: https://greenbuttondata.org/residential.html

Green Button Flow Diagram



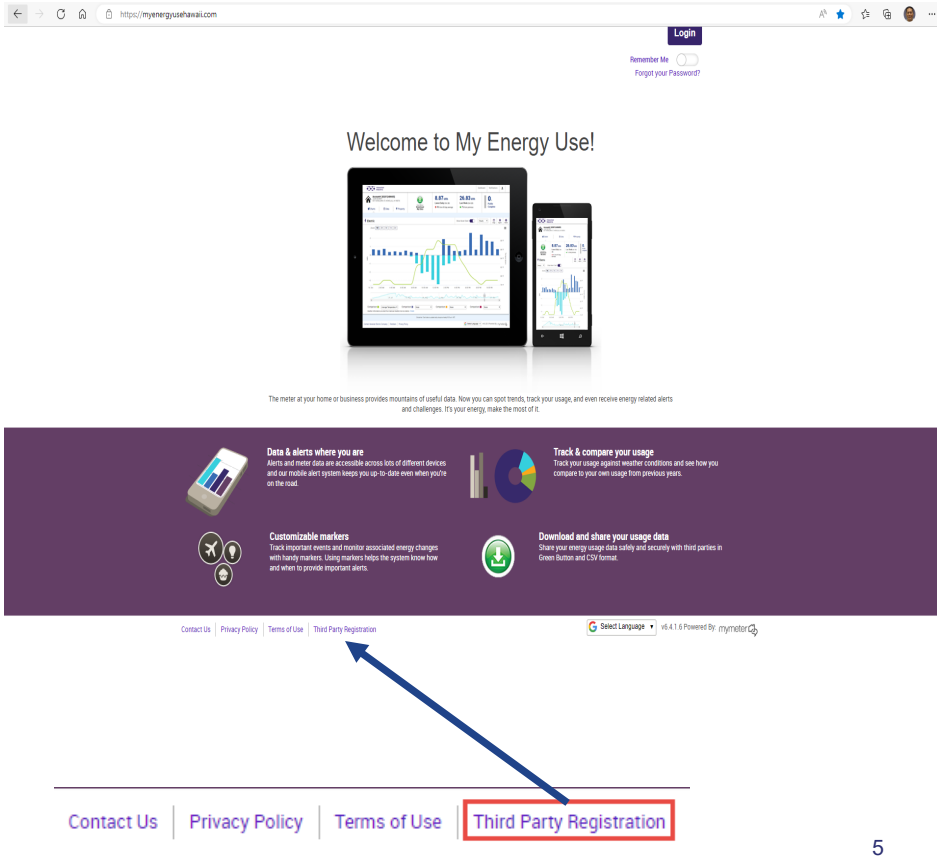
Source: https://green-button.github.io/developers/

Third Party Registration Link

1. Access Third Party Registration by visiting https://myenergyusehawaii.com

2. On the bottom of the web page there is “Third Party Registration” link

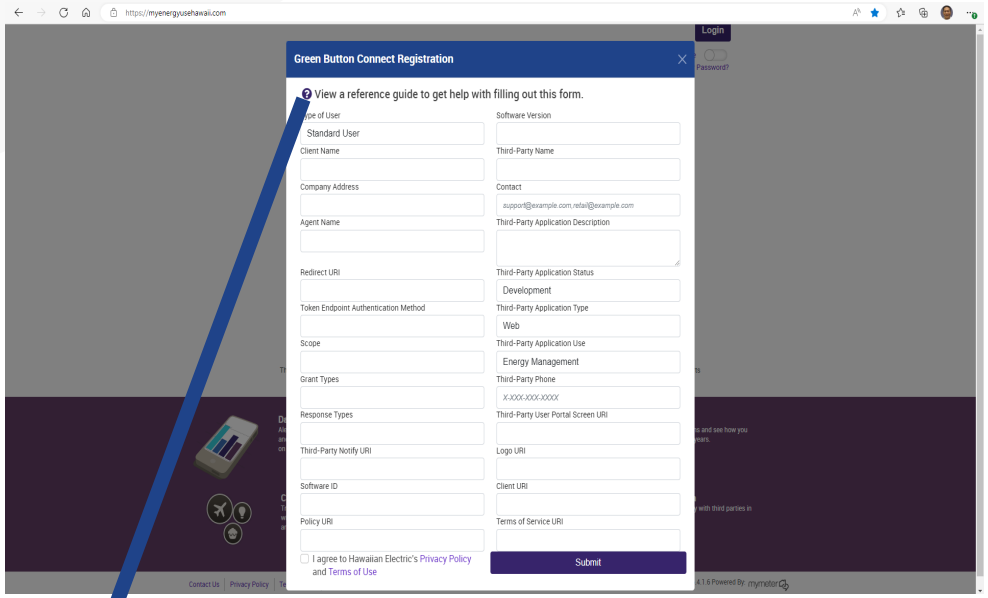
3. Click on the link to access the Third Party Registration form



Third Party Registration Form

1. Fill out the Fields on the Form

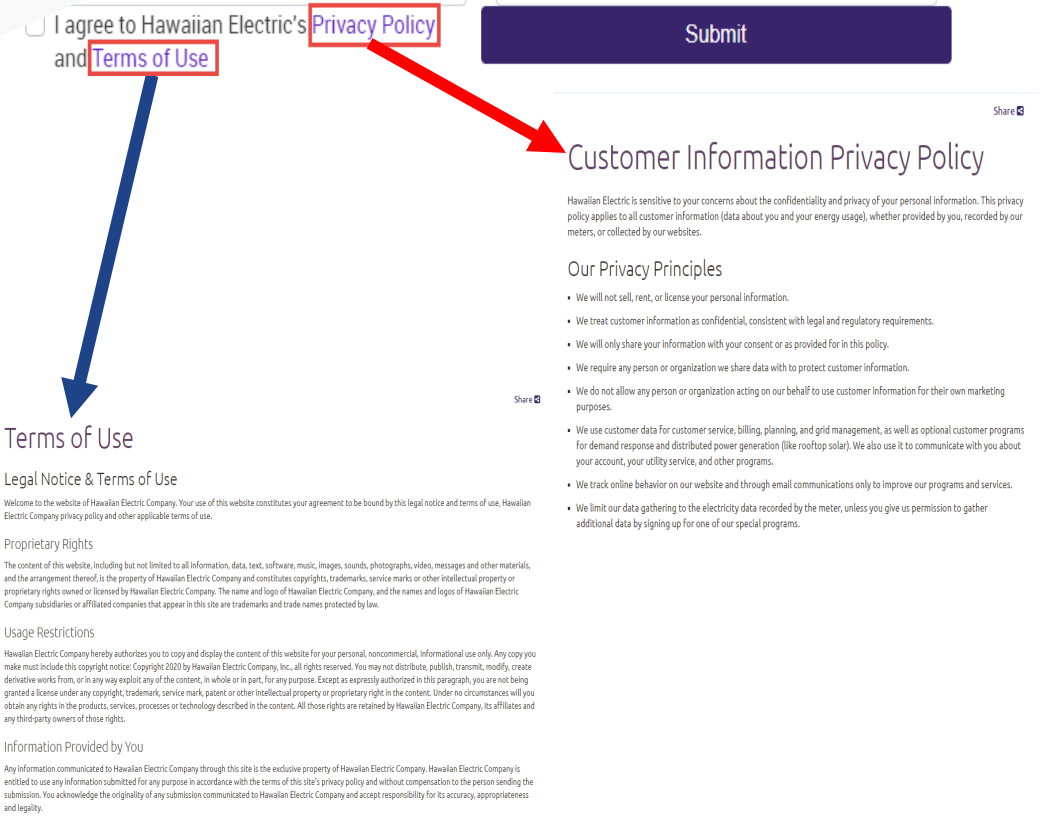
2. Click on the ? icon to view the reference guide for filling out the form



Third Party Registration Form

1. At the bottom of the form is Agreement to Hawaiian Electric's Privacy Policy and Terms of Use.

2. Please access the links to the documents and review before clicking the check box and hitting "Submit"



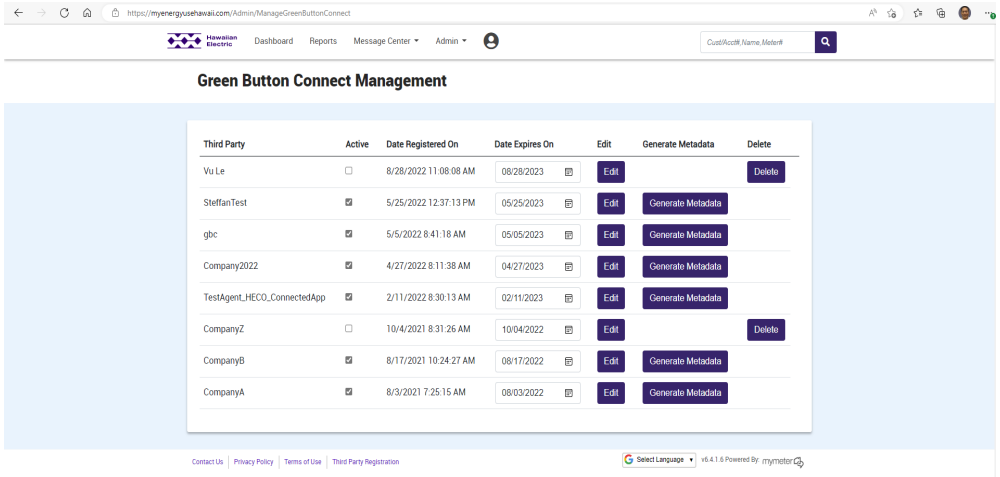
Third Party Registration Form

1. Once a valid form is submitted the information will be vetted internally by Hawaiian Electric

2. Companies that pass the vetting process will be flagged as active

3. Active companies will have their Metadata sent to them

4. The Metadata will include the Registration Access Token which is needed to access the MyMeter application



Customer Journey Overview

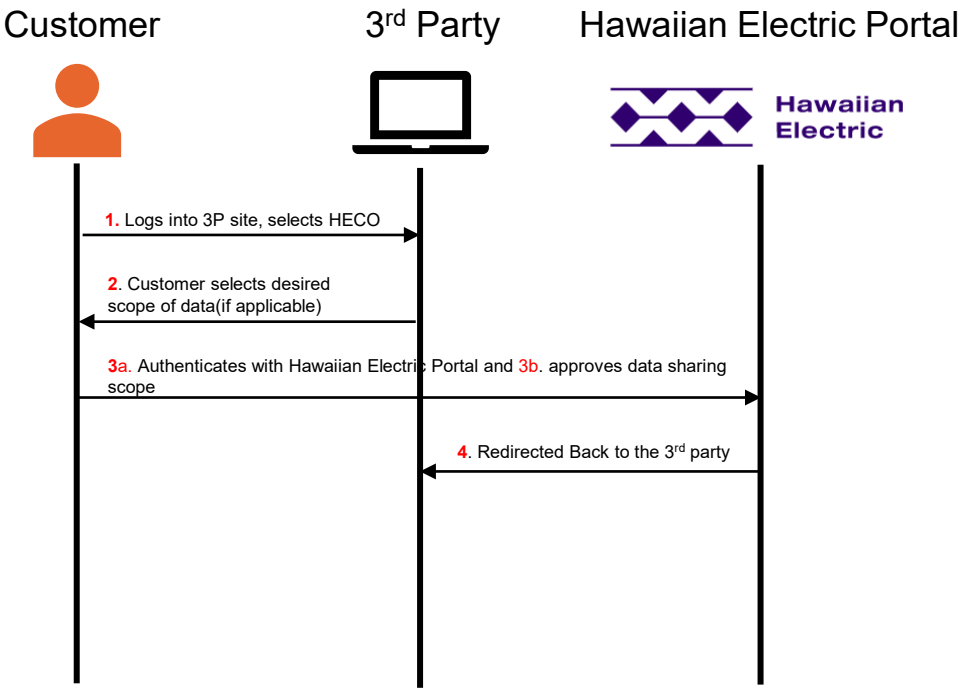
1.Customer logs in 3rd party and selects HECO

3.Selects the scope of desired data (if applicable)

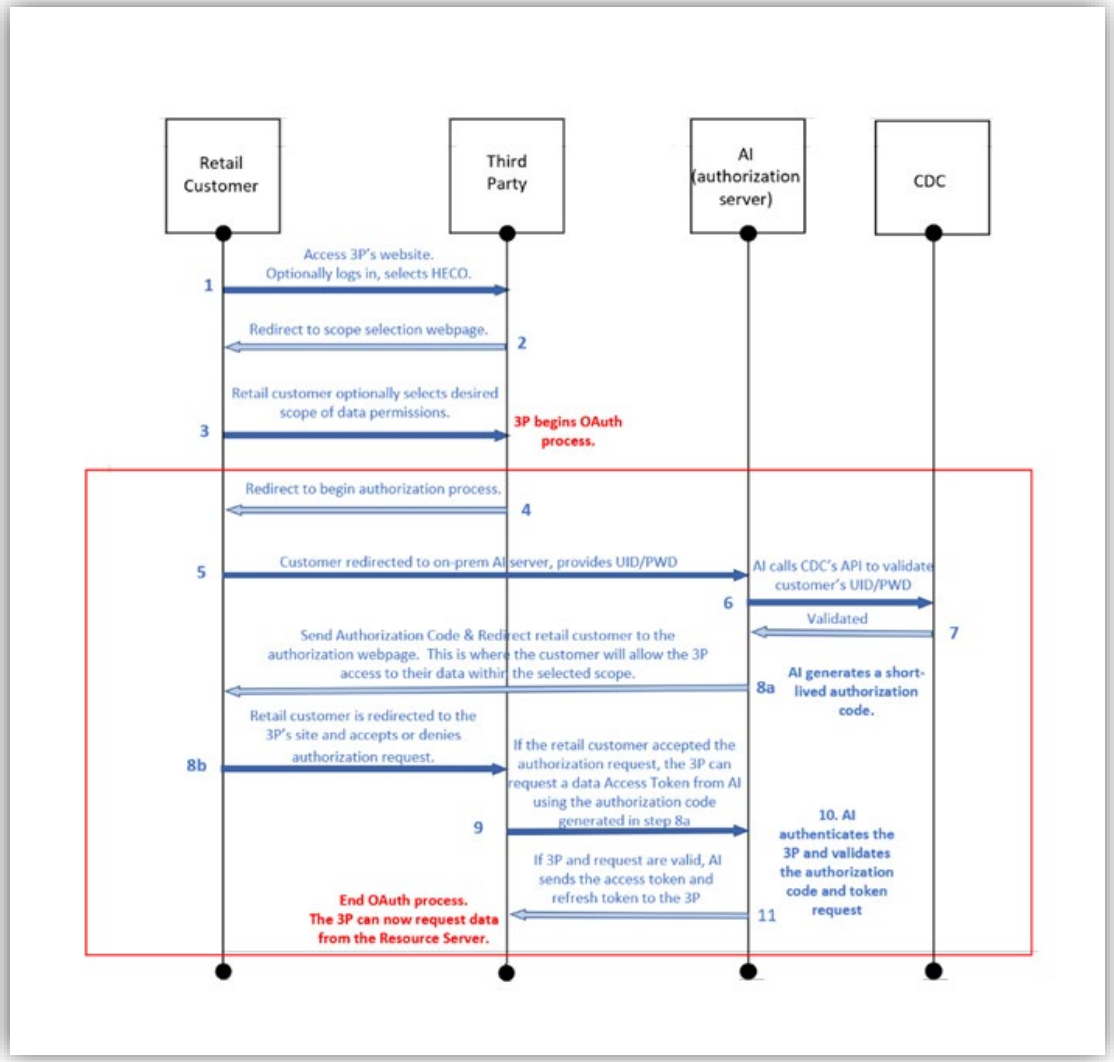
3a.Authenticates with Hawaiian Electric Portal

3b

4.



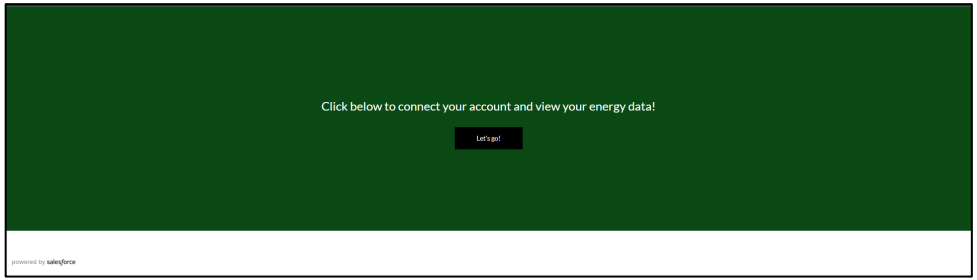
In-Depth – Customer Journey

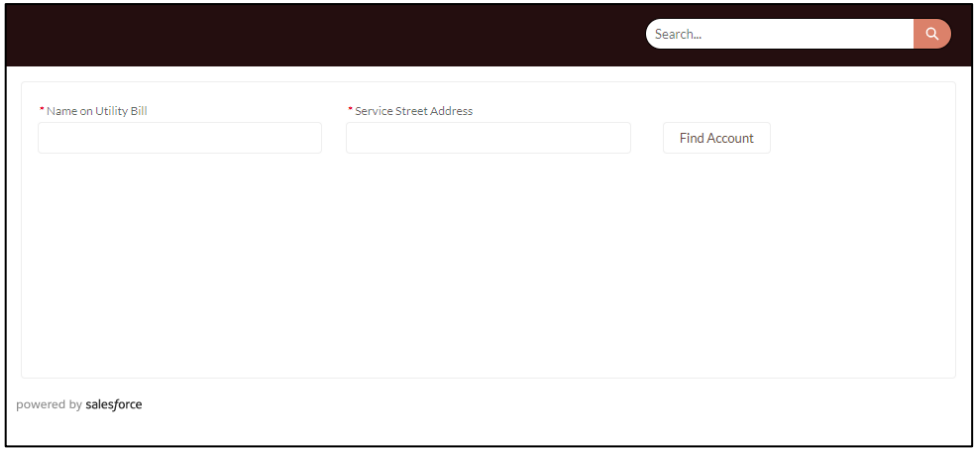


Hawai‘i Energy

HAWAI'I ENERGY
SUPPORT

1. Set up test portal
2. Provide feedback on setup process
3. Share lessons learned





MINIMUM RESOURCE/SKILLSET REQUIREMENTS

1. Building a Web Site (Html/Javascript)
2. Maintaining a Database
3. Model-View-Controller Architectural Pattern
    - Model: Database that stores the access/refresh tokens per account
    - View: Enables user to integrate their utility account
    - Controller: Reads URL parameters from the Web Page (View), makes API callouts and interacts with the database (Model)
4. Oauth 2.0 Access Token API Verification
    - Need web page to direct user to utility login
    - Need web page for redirect from utility site to collect Authentication Code and make Token callout
5. API Callouts to retrieve/manipulate data

KEY TAKE-AWAYS & LESSONS

1. Pay particular attention to the Scope of the data request.
    - Has implications on database storage requirement
    - May require additional code to handle size limits
    - Scope parameter on each data request callout must match the Scope of the original authorization request
2. Ensure parameters in the API callouts explicitly use the encoding specified within the documentation
3. SSL certificate updates may affect a successful connection. Reach out to Hawaiian Electric for support.

Mahalo!

www.hawaiienergy.com

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Additional Resources

Website: https://www.hawaiianelectric.com/products-and-services/customer-incentive-programs/installer-information

- Instruction manual
- This webinar recording (will be posted)
- This presentation in pdf (will be posted)

Inquiries: connect@hawaiianelectric.com

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