

EAGLE-I™: Environment for Analysis of Geo-Located Energy Information

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EAGLE-I™: Environment for Analysis of Geo-Located Energy Information

- US DOE's **operational and scalable** data and information platform for real-time wide-area situational awareness of the energy sector
- Data science approaches to provide a centralized platform for monitoring power distribution outage for over **140 million customers; 93% coverage of US and Territories**
- Users are from DOE, DHS, DOD, FEMA, USDA, state emergency responders, among others.
- Supports the ESF#12 function within the National Response Framework (NRF)
- Providing a modern framework for the next set of capabilities in emergency response support

EAGLE-I Program Organization

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Use Cases

Department of Energy / Federal

- Support the generation of situation reports
- Research on grid resilience
- Analysis of outages / restoration times from previous emergencies
- Transmission line assessment relative to USDA Priority landscapes and firesheds
- Support situational awareness capabilities for the homeland security enterprise
- Identify vulnerable communities based on electricity-dependent medical equipment

ESF#12 Responders

- Provide data to decision makers
- Monitor outages across impacted region

State Users

- Support state applications requesting POTUS disaster declaration
- Justify replacing SNAP food benefits (USDA as well)
- Monitor outages within their state and neighboring states
- Explore historic outage data
- Emergency situational awareness reporting to state leadership

Info Sheet/FAQ

- Goals:
 - Quickly & easily get users up to speed on EAGLE-I
 - Account reactivation workflow
 - Directions for finding & downloading data of interest
 - Addresses the most common questions for you
 - What if I forgot my password?
 - Why is a certain utility not listed?
 - Why is the number of county customers not what I would expect?

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What is EAGLE-I?
EAGLE-I is DOE's platform for monitoring power distribution outages. Eligible users include DOE, DHS, DOD, FEMA, USDA, state energy and emergency responders, and others supporting the ESF #12 function within the National Response Framework.

How do I get an account?
Register at <https://eagle-i.doe.gov/login>.

How do I access my account?
Sign in with your username (not your email address) and password.

What if I forgot my password?
Click [Reset Password](#) on the login page.

I think my account is locked.
After failed login attempts, a form is presented to re-enable your account. Once email verification is complete, your account will be re-activated.

Still having issues?
Click the [Trouble Logging In?](#) link or email the webmaster at eagle-i@orn.gov.

Can I share information with others? Who can have access?
This information is only in the Emergency Supp community, such as D Coordinators and asso responders. Check wit before sharing with ot

What does EAGLE-I cover?
EAGLE-I provides power distribution coverage for 93% of the US plus Territories, over 140 million total customers. A utility may not be included if the website data is not in a format that can be extracted.

Where do outage numbers come from?
EAGLE-I monitors electric utility websites for customer outage data every 15 minutes and assigns outage data to a county in the utility service region based on analysis and reference data sets.

Why do EAGLE-I outage numbers differ from a utility?
EAGLE-I extracts outage data from electric

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What is override data?
EAGLE-I allows trained users to create outage override data, as needed, from known sources to supersede the collected EAGLE-I data for a specific utility(s) /county(s), providing better consistency between EAGLE-I and other agency outage numbers. This is common during hurricanes, tornados, or storms. If you feel there is need to add missing data via an override, please contact your DOE ESF-12 Regional Coordinator.

How do I know override data is in use?
A message will appear in the Notification Banner, indicating the number of counties with override data provided by other sources. On the map, the affected counties will be indicated by diagonal purple lines.

Have a question during an outage?
EAGLE-I Extract, Transform, Load (ETL) monitors for and flags unusual outage reporting. If you feel data is missing or incorrect, use the [Submit Feedback](#) link, available under the [Help](#) menu, to contact the EAGLE-I team.

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How do I find outages for a specific date or for multiple days?
1. For State/County: Mapper or the Customer Outages by Selected Region Report
For the Mapper, make sure the National Outage Map toggle is selected. Select "State/Territory" or "County" under [Show Outages By](#) and use the [Filter Locations](#) arrow to select the applicable State/County. Define a data range with the Date filter in the upper right corner of the Mapper or the [Chart Start Date](#) button for the report. Hover over the selected area on the map or press the [Open Chart](#) button (Mapper) to see the outage data in a table format.

Customers Out Over Time Report
to find a specific utility or select "State/Territory" or "County" [ications](#) arrow to select an applicable State/County that contains data range with the [End Date](#) button. Select areas in the bar r that time in a popup window.

Demo

- <https://eagle-i.doe.gov>

Outage Data Initiative Nationwide (ODIN)



- ODIN is a network of leading electric service providers who are committed to providing comprehensive interoperable power outage data that enables utilities and others to exchange data freely with designated stakeholders at all levels
- Benefits
 - Control and authoritatively share your data
 - Commit to leading on transparent sharing and resilience
- <https://odin.ornl.gov>

EAGLE-I and ODIN

EAGLE-I

- Situational Awareness for Emergency Response
- Consumes outage data from available sources including ODIN
- Covers 93% of electric utility customers
- Provides access to data beyond the electricity sector and adding analytic and data processing capabilities

ODIN

- Provides all outage data in a standardized format
- Data pushed to ODIN from utilities
- Compliments EAGLE-I by providing data from utilities without a public outage map
- Facilitates more effective data exchange

Feedback

- eagle-i@ornl.gov

Questions

- What can EAGLE-I do better to support you?
- What types of data are most useful for the requests you get?
- Is there anything you find unintuitive about EAGLE-I?