Storm Sight

Predicting Storm Damage

Efficiency Lab
Presented by Jon Daggerhart

Efficiency Lab

CREATING TOOLS FOR ENERGY EFFICIENCY

Efficiency Lab

- 15 years experience in electric power software creation

- Mature software company that understands the importance of quality, security, and system integration

- Working with weather experts to create solutions for electric power

  - NOAA (National Oceanic & Atmospheric Administration)

  - Baron Weather

  - IBM (Weather Channel)

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Weather Challenges

- Weather is unpredictable and a significant contributor to outages

- Storms are increasing in frequency and severity

- Customers expect utilities to respond quickly

- Utilities need to manage costs associated with outages

- Utilities lack a tool to predict and respond efficiently to weather related impact on important assets

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Storm Sight

Here's what Efficiency Lab has now:

- Real-time weather tools from Baron and IBM

- Storm recording and potential lightning damage based on asset location

- Weather API's providing real-time and historic data to existing systems

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Here's what Efficiency Lab is working on:

- Seamless integration of Storm Sight and various real-time weather applications

- Building data library of electric power asset locations

- Predictive Analytics engine from historical storm data

- Augmented Reality features for storm replay and analysis at physical asset locations

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Storm Sight

Here's what Efficiency Lab needs:

- Historic data related to outages caused by storms

- General cost information related to outage restorations

- Opportunities to test and refine the Storm Sight concept in real world scenarios

- Industry partners to help identify the needs around weather related asset damage and outages

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Storm Sight Demo

- Real-time weather data and forecasting tools

- Storm replay with asset damage from lightning

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Next Steps

- A follow up conversation with Efficiency Lab to discuss opportunities to participate in Storm Sight

- Efficiency Lab Contact Information

    - Jon Daggerhart

    - jdagger@efficiencylab.com

    - (828) 484–9625 (office)

    - (828) 301–1828 (mobile)

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Questions for GIS Interest Group

- What systems or processes do you feel would benefit from having access to real-time or historic weather data?

- What data sources are available for asset maps or historic outage data that should be included in Storm Sight?

- What are some common weather related issues that impact power distribution?

- What kind of weather information do you wish was available to you quickly and easily?

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