RESPOND.
RESTORE.
REPORT.

arcos®
Damage Assessment

ASSESS DAMAGE IN HOURS WHILE IMPROVING ETR FORECASTS

When responding to an emergency power restoration event, utilities need to quickly identify the location and extent of the damage to their infrastructure to determine the crews and materials required for repair. ARCOS Damage Assessment helps shorten this assessment process from days to just hours. Using the utility's GIS system and the mobile device location services on any smartphone, tablet or laptop, assessors can rapidly report and transmit damage —which is immediately available to emergency personnel to help estimate time of restoration (ETR).

WHY ARCOS ?

- Supports any mobile device (iOS, Android, Windows)
- Works online and offline
- Integrates with OMS and GIS

As the assessment team works together to report system damage, emergency management and event coordinators have instant situational awareness via dynamic visualization as it occurs. In addition, field repair crews can easily access utility network data on their mobile device. ARCOS Damage Assessment works online or offline, giving the field workforce full access to the reference information they need, including feeder patrol directions, even when they are in areas with no cell or Wi-Fi coverage.

The application speeds the damage assessment and ETR process by quickly guiding assessors through menu choices and procedures specific to your utility, which is especially helpful for less experienced assessors or when outsourcing assessment to contract personnel. An interactive mobile version of utility assets is used to pinpoint and tag damage, automatically creating an asset information report. Additionally, photographs or videos of damage can be added.
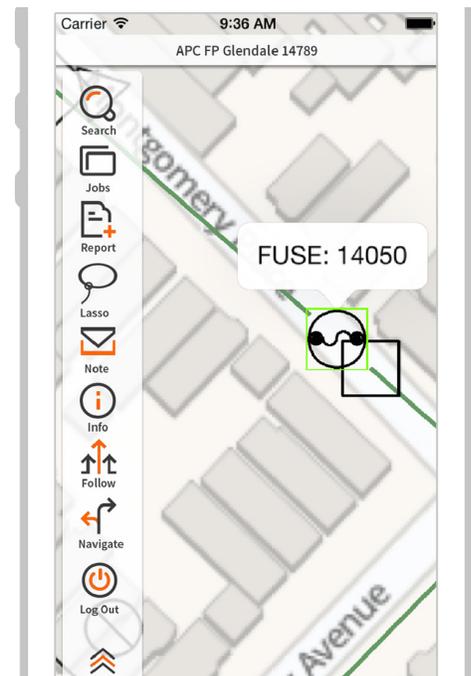
Mobile application guides users through storm damage assessment

FOR EXECUTIVES, INCIDENT COMMANDERS AND EMERGENCY MANAGEMENT PERSONNEL

Faster ETR forecasting is made possible by the ARCOS Damage Assessment system by improving the accuracy and speed of reporting. Benefits include:

- Fast, accurate damage reports transmitted immediately to OMS and ARCOS management console
- Time to repair is reduced due to real-time reporting of materials needed
- Prioritization of repairs is simplified with automatic calculation of customers affected per equipment failure as well as the crews and equipment needed by type of damage
- Accurate restoration status made possible by visual position of field crews and estimated time of job completion

INTEGRATION WITH OTHER SYSTEMS

The ARCOS Damage Assessment solution seamlessly integrates with a utility's GIS and OMS products. This provides the opportunity to stream trusted information directly into emergency management systems. In addition, when combined with the ARCOS Crew Management and Callout solutions, utilities can easily match up crew and equipment resources with repair work reported by damage assessors, getting the power on sooner at less cost.

JOB ASSIGNMENT

Damage assessment jobs may be assigned through the application's dashboard. Jobs then appear in an assessor's queue, accompanied with directions to the feeder head or damaged location for repair crews.
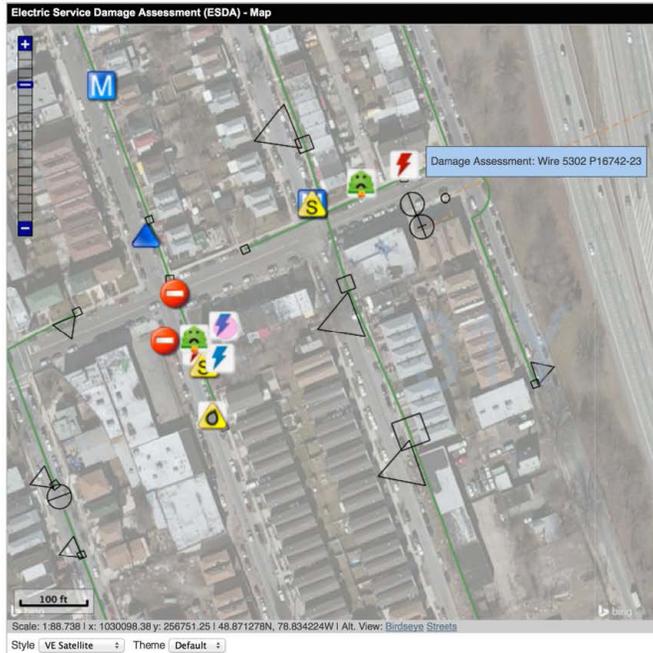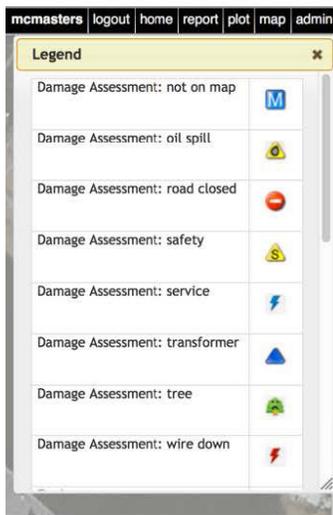
When an assessor locates damage on an unassigned feeder, the application allows them to simply create a new job, tagged with the location. Once a site report is complete, it is immediately sent to the dashboard and the corporate OMS system. If there is no connectivity, the report will be saved until a network connection is found, allowing the field engineer to continue to their next job without interruption.

(Left) Data gathered by assessors via the mobile application is displayed on a map and reporting interface for event coordinators and managers.

FOR SUPERVISORS AND MANAGERS

Through the application dashboard, jobs can be dispatched, resources tracked geographically, and assessment information viewed through several filters and layers. Using the console, the time to organize the repair and reconstruction packets is significantly reduced.