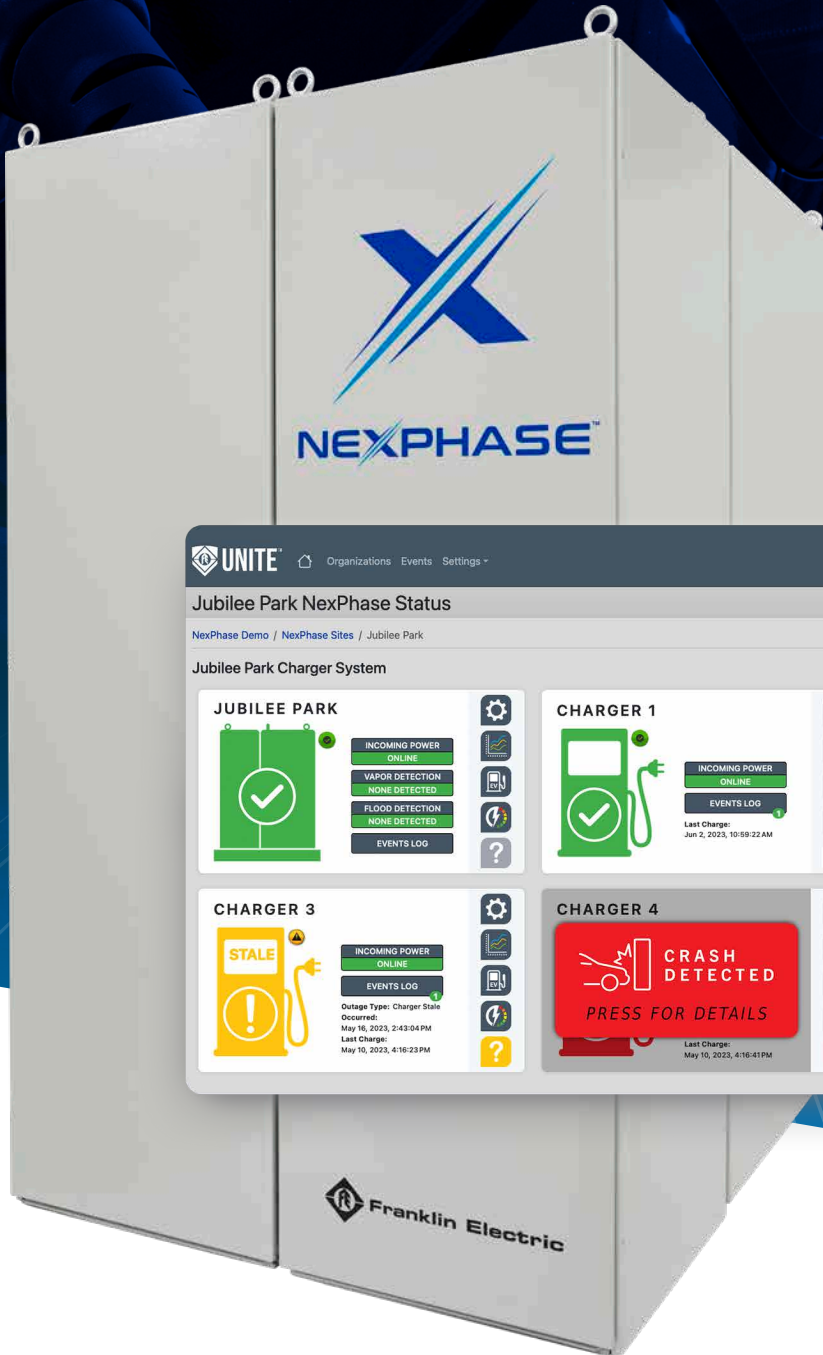




**Franklin Electric**  
EV SYSTEMS



**UNITE** Organizations Events Settings

Demo User (demo@user.com) | Log Out EN

### Jubilee Park NexPhase Status

NexPhase Demo / NexPhase Sites / Jubilee Park

#### Jubilee Park Charger System

<p><b>JUBILEE PARK</b></p> <ul style="list-style-type: none"> <li>INCOMING POWER: ONLINE</li> <li>VAPOR DETECTION: NONE DETECTED</li> <li>FLOOD DETECTION: NONE DETECTED</li> <li>EVENTS LOG</li> </ul>	<p><b>CHARGER 1</b></p> <ul style="list-style-type: none"> <li>INCOMING POWER: ONLINE</li> <li>EVENTS LOG</li> <li>Last Charge: Jun 2, 2023, 10:59:22 AM</li> </ul>	<p><b>CHARGER 2</b></p> <ul style="list-style-type: none"> <li>INCOMING POWER: ONLINE</li> <li>EVENTS LOG</li> <li>Last Charge: Jun 2, 2023, 10:59:22 AM</li> </ul>				
<p><b>CHARGER 3</b></p> <ul style="list-style-type: none"> <li>INCOMING POWER: ONLINE</li> <li>EVENTS LOG</li> <li>Outage Type: Charger Stale Occurred: May 10, 2023, 2:43:04 PM</li> <li>Last Charge: May 10, 2023, 4:16:23 PM</li> </ul>	<p><b>CHARGER 4</b></p> <p><b>CRASH DETECTED</b></p> <p>PRESS FOR DETAILS</p> <ul style="list-style-type: none"> <li>Last Charge: May 10, 2023, 4:16:41 PM</li> </ul>	<p><b>POWER AVAILABILITY</b></p> <table border="1"> <tr> <td>Charger 1: 97%</td> <td>Charger 2: 97%</td> </tr> <tr> <td>Charger 3: 98%</td> <td>Charger 4: 97%</td> </tr> </table> <p>LAST WEEK</p>	Charger 1: 97%	Charger 2: 97%	Charger 3: 98%	Charger 4: 97%
Charger 1: 97%	Charger 2: 97%					
Charger 3: 98%	Charger 4: 97%					

**NEXPHASE**<sup>TM</sup>  
SMART EV SWITCHGEAR



# NEXPHASE™

## THE FIRST INTELLIGENT EV SWITCHGEAR

The NexPhase™ Smart EV Switchgear is an all-in-one switchgear panel containing the entire infrastructure required between the utility service and Level 3 DC fast chargers. Unlike any switchgear of its kind, NexPhase™ features cutting-edge grid intelligence for utility power and EV charger remote monitoring, troubleshooting, and control — something chargers alone cannot provide.



### SIMPLIFIED DESIGN

#### ACCELERATE PROJECT TIMELINES

By combining all switchgear equipment into one enclosure, NexPhase™ eliminates the lengthy design process of traditional post-and-frame systems, which require additional costs to design and source a mixed-manufacturer panel system.



### INSTALLATION MADE EASY

#### MITIGATE UP-FRONT COSTS

NexPhase™ only requires the on-site connections for the incoming power and outgoing charger connections, drastically reducing on-site installation time and costs.



### CONNECTION ENABLED

#### REMOTE MONITORING & CONTROL

An embedded monitoring system provides remote access to real-time health data with remote power cycling capabilities and automated alarms to facilitate condition-based maintenance planning.



### CHARGER RESILIENCY

#### INCREASE EV CHARGER UPTIME

With early detection of EV charger deficiencies and system performance diagnostics provided by NexPhase™, fleet operators are provided with the tools to improve uptime, extend equipment service life, and enhance the reliability of their EV charger systems.



### UPTIME ASSURANCE

#### PINPOINT OFF-LINE EV CHARGERS

It's approximated that up to 30% of public U.S. EV chargers are out of operation at any given time, with these outages going undetected until a technician is physically present. NexPhase™ provides ongoing state-of-charge data so operators can identify outages, remotely cycle power, and react with precision.



### SAFETY FEATURES

#### PROTECT YOUR EV CHARGERS

NexPhase™ includes integrated emergency-stop capabilities for future NFPA compliance and added safety capabilities including EV charger crash detection, flammable vapor monitoring with automatic shutdown, and flood detection remote alerts.



### TURNKEY SWITCHGEAR SOLUTION

Unlike traditional post-and-frame switchgear, NexPhase™ combines all of the electrical panels, equipment, and wiring that are tasked with receiving, distributing, and protecting the site's power into a single panel.

An embedded power monitoring systems provides continuous, precision performance data to the secure UNITE™ Web Interface. Through UNITE™ CPOs can remotely monitor, troubleshoot, and control the EV charging site.



TRADITIONAL SWITCHGEAR

## HOW MUCH ARE EV CHARGER OUTAGES & TRUCK ROLLS COSTING YOU?

Outages are routinely due to a charger communication failure which leaves the Charge Point Operator (CPO) unable to detect and react remotely. 50-70% of the time a simple power cycle of the charger's power is all that is needed to get the charger up again. The charge point operator simply cannot perform a hard reboot on a charger remotely — NexPhase™ can.

### TYPICAL CHARGER OUTAGES



#### CHARGER IS DOWN

The most common reason for charger outages is a communication failure within the charger itself.



#### CPO LOST SIGHT

With communication offline, the CPO has no remote visibility to know the cause of the charger outage.



#### TRUCK ROLL

The only course of action available to the CPO is to dispatch a service truck to investigate the downed charger.



#### POWER CYCLE

50-70% of the time a simple power cycle of the charger's power is all that is needed to get the charger up again.



#### THE COST

The CPO just spent \$500-\$700 in trip charges for a simple power cycle — plus the lost business in charger downtime.

### THE NEXPHASE™ ALTERNATIVE TO OUTAGES



#### CHARGER IS DOWN

The most common reason for charger outages is a communication failure within the charger itself.



#### CPO STILL CONNECTED

Even though the charger is offline, NexPhase™ gives the CPO remote access to the station's vital power data and charger status.



#### REMOTE RESPONSE

The CPO can remotely confirm incoming utility power, verify all switchgear components are operational, troubleshoot the charger, and initiate a power cycle to bring it back online.



#### NO TRIP CHARGE

Instead of sending a technician to the site, NexPhase™ empowers CPO personnel to remotely diagnose and rectify charging station outages.



#### THE SAVINGS

NexPhase™ can help CPOs maintain 97% charger uptimes while reducing maintenance and service calls — keeping chargers operational and reducing maintenance budgets.

# CONNECTED EV CHARGING INFRASTRUCTURE

The UNITE™ Web Interface securely communicates with a NexPhase™ Smart EV Switchgear to provide user-friendly remote access to critical EV charger infrastructure monitoring information. With early detection of EV charger deficiencies and system performance diagnostics provided by UNITE™, Charge Point Operators (CPOs) are provided with the tools to improve uptime, extend equipment service life, and enhance the reliability of their EV charger systems.

## EV CHARGING SITE DASHBOARD

View the operational status of the EV charging station's critical assets including the switchgear and EV chargers. Remote monitoring, troubleshooting, and control capabilities with automated alarms help facilitate condition-based maintenance and increase EV charger uptime.



### REMOTE POWER CYCLE

When chargers fail, 50-70% of the time a simple hard reset of the charger's power is all that is needed to get the charger up again. Save the trip charge with remote power cycling capabilities.



### POWER ANALYTICS

Get access to real-time and historical utility power usage and performance data that can be used to improve EV charging operational performance and better understand utility power usage.



### POWER AVAILABILITY

Scroll through power availability metrics by trailing week, month, quarter, or year. Key in on chargers with power availability issues and dive deeper into the causes of those outages.



### DAMAGE DETECTION

EV charger crash detection, flammable vapor monitoring, and flood detection with automatic shutdown help safeguard charging sites and identify outages.



### STALE CHARGER DETECTION

Locate chargers that have not executed a charge in a user-defined time period. A stale charger can be a good indication of a software or communication outage, damage, or obstruction at the site.



### OUTAGE DETECTION

Up to 30% of public U.S. EV chargers are offline at any given time, with these outages going undetected until a technician is physically present. UNITE™ pin-points offline chargers so CPOs can react quickly.

The screenshot shows the UNITE web interface for Jubilee Park. At the top, there's a navigation bar with 'UNITE' logo, 'Organizations', 'Events', and 'Settings'. The main header is 'Jubilee Park NexPhase Status'. Below it, there's a breadcrumb trail: 'NexPhase Demo / NexPhase Sites / Jubilee Park'. The main content area is titled 'Jubilee Park Charger System' and contains several cards:

- JUBILEE PARK**: Overview card showing 'INCOMING POWER ONLINE', 'VAPOR DETECTION NONE DETECTED', 'FLOOD DETECTION NONE DETECTED', and 'EVENTS LOG'.
- CHARGER 1**: Card showing 'INCOMING POWER ONLINE', 'EVENTS LOG', and 'Last Charge: Jun 2, 2023, 10:59:22 AM'.
- CHARGER 2**: Card showing 'INCOMING POWER ONLINE', 'EVENTS LOG', and 'Last Charge: Jun 2, 2023, 10:59:22 AM'.
- CHARGER 3**: Card showing 'STALE' status, 'INCOMING POWER ONLINE', 'EVENTS LOG', and 'Outage Type: Charger Stale Occurred: May 16, 2023, 2:43:04 PM Last Charge: May 10, 2023, 4:16:23 PM'.
- CHARGER 4**: Card showing a red 'CRASH DETECTED' alert with 'PRESS FOR DETAILS' and 'Last Charge: May 10, 2023, 4:16:41 PM'.
- POWER AVAILABILITY**: Summary card showing power availability for all chargers: Charger 1 (97%), Charger 2 (97%), Charger 3 (98%), and Charger 4 (97%). It includes a 'LAST WEEK' filter and a download icon.

The screenshot shows the 'View NexPhase Demo' map view. It features a map of the area with several sites marked by colored pins. A legend on the left lists the sites: Clifford Park, Deering Oaks, Jubilee Park, Mechanics Park, Monument Square, Pepperell Park, Union Street, Irving Street, Pearl Street, Lincoln Street, Scamman Parking Ramp, Front Street, and Old Orchard Road. Jubilee Park is highlighted with a red pin.

### NETWORK VIEW

Visualize your entire charger network geographically in a single map view. Visually confirm the status of all chargers and quickly key in on those that may require attention or maintenance.

The screenshot shows the 'NexPhase Sites' asset view. It displays a grid of cards for different sites: Clifford Park, Deering Oaks, Jubilee Park, Mechanics Park, Monument Square, and Pepperell Park. Each card shows the site's overall status (e.g., 'ONLINE') and a list of individual chargers with their respective statuses (e.g., 'ONLINE', 'OFFLINE', 'ALARM').

### ASSET VIEW

Quickly view the operational status of each EV charging station's critical assets including the switchgear and EV chargers. Color-coded, icon-driven design facilitates fast and easy status-at-a-glance of these key assets.

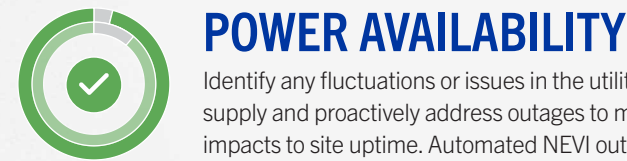
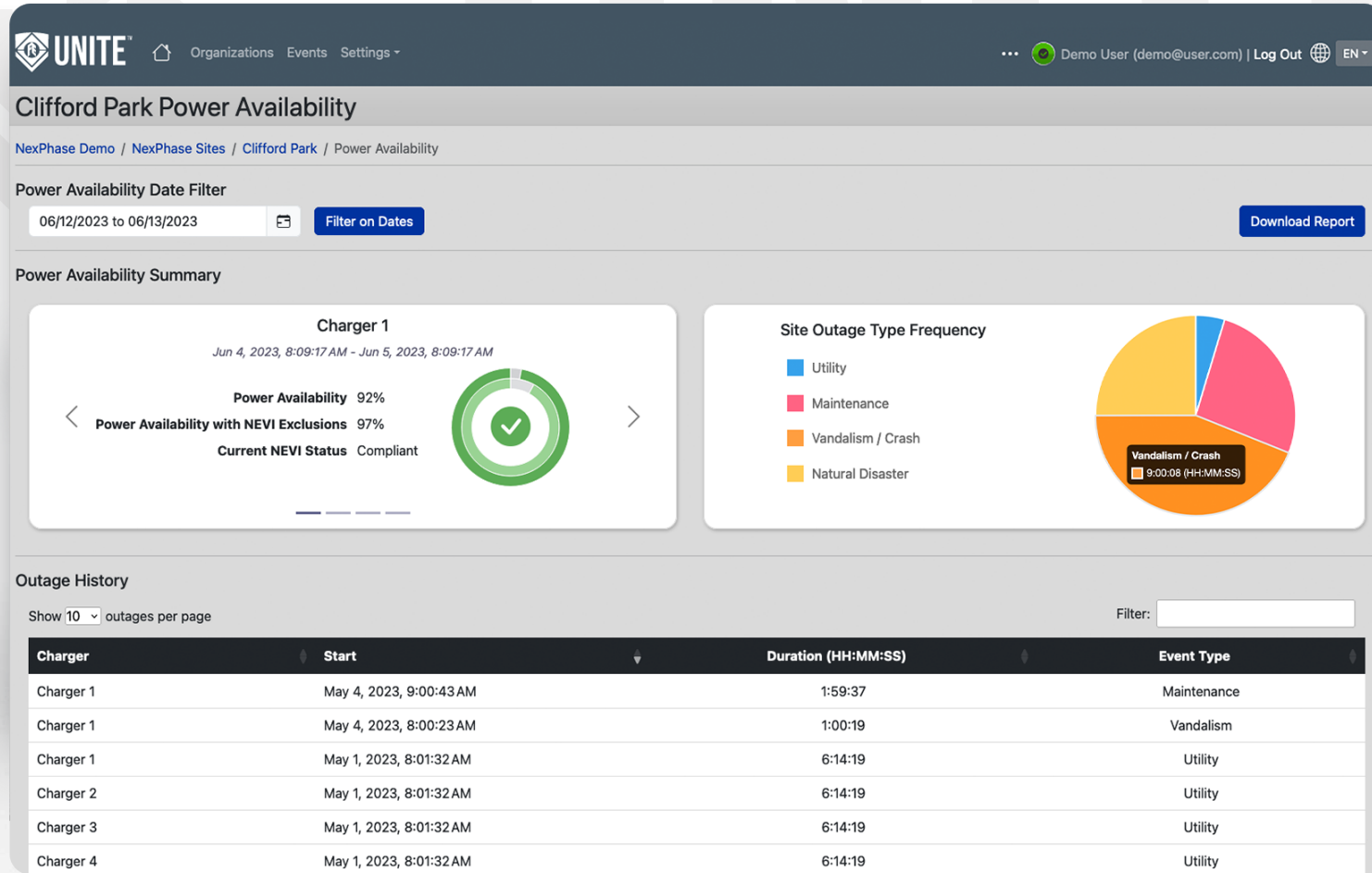
The screenshot shows the 'CHARGER 1' view. It features a red charger icon with a white 'X' and a red 'OFFLINE' status. Below the icon, it shows 'INCOMING POWER OFFLINE', 'EVENTS LOG', and 'Outage Type: NexPhase Communication Failure Occurred: May 10, 2023, 3:37:22 PM'.

### CHARGER VIEW

Key in on individual chargers with access to data including usage, outage status, outage types, and outage duration. UNITE™ also tracks and monitors every charge event with access to charge times, duration, and advanced energy usage analytics.

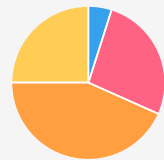
# POWER AVAILABILITY DASHBOARD

Access key utility power availability metrics, track outages, and simplify reporting.



## POWER AVAILABILITY

Identify any fluctuations or issues in the utility power supply and proactively address outages to minimize impacts to site uptime. Automated NEVI outage exclusion tracking simplifies uptime reporting.

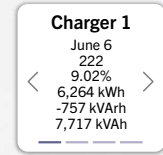
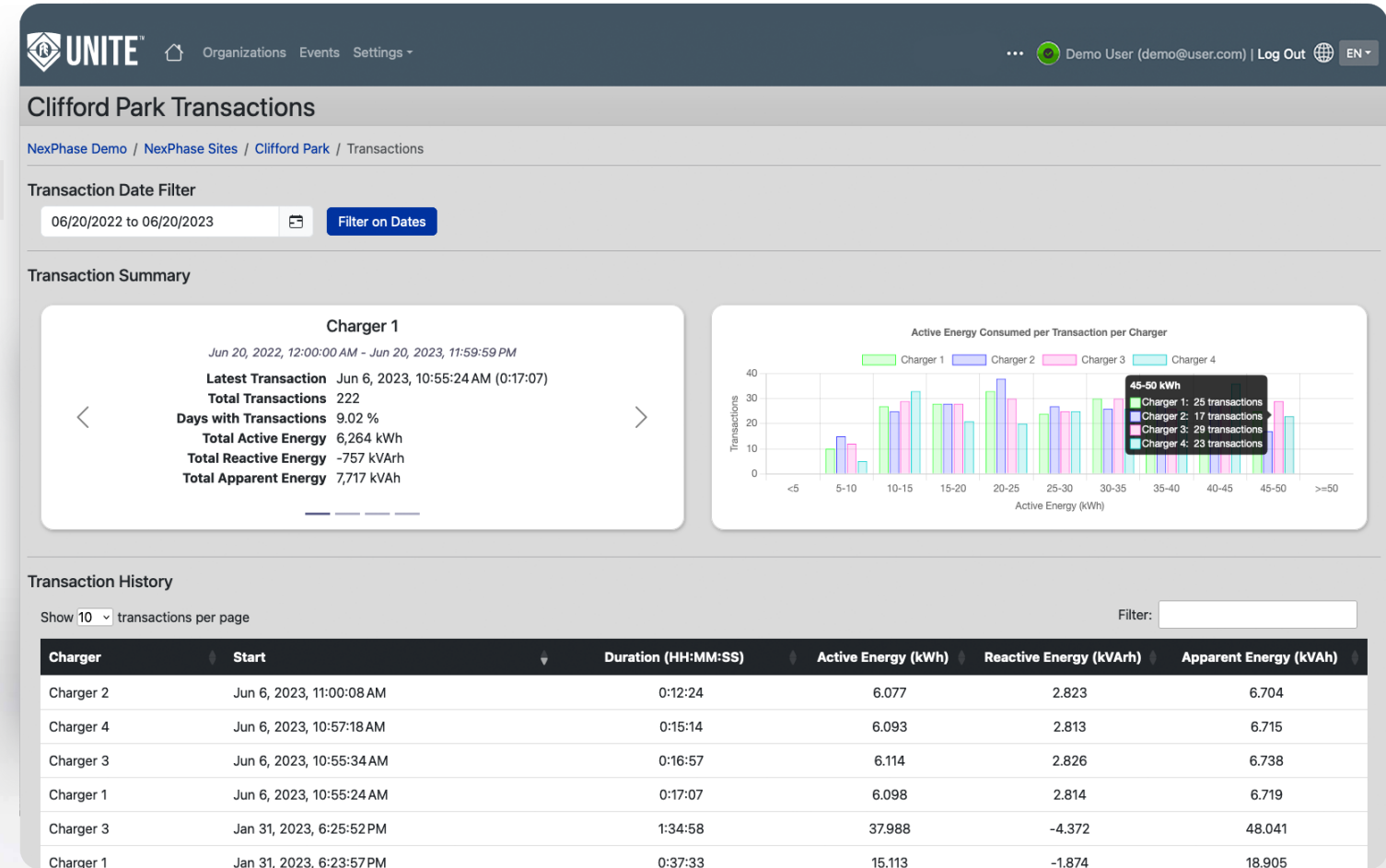


## OUTAGE TRACKING

Understand the cause of outages and identify patterns or recurring issues that are impacting the reliability of the charging site. Address the sources of downtime with precision and increase overall uptime.

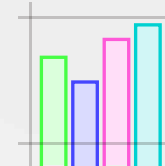
# CHARGER TRANSACTIONS DASHBOARD

Access charger transaction metrics to track and trend charger activity, charge durations, output power, and energy consumed.



## CHARGE TRACKING

Detailed charger energy tracking can help identify high-demand periods, optimize energy usage, plan maintenance, and implement load management strategies to minimize peak demand chargers.



## ACTIVE ENERGY

View charger performance both in terms of power consumption and number of transactions to verify chargers are performing as expected and quickly identify those that are not.



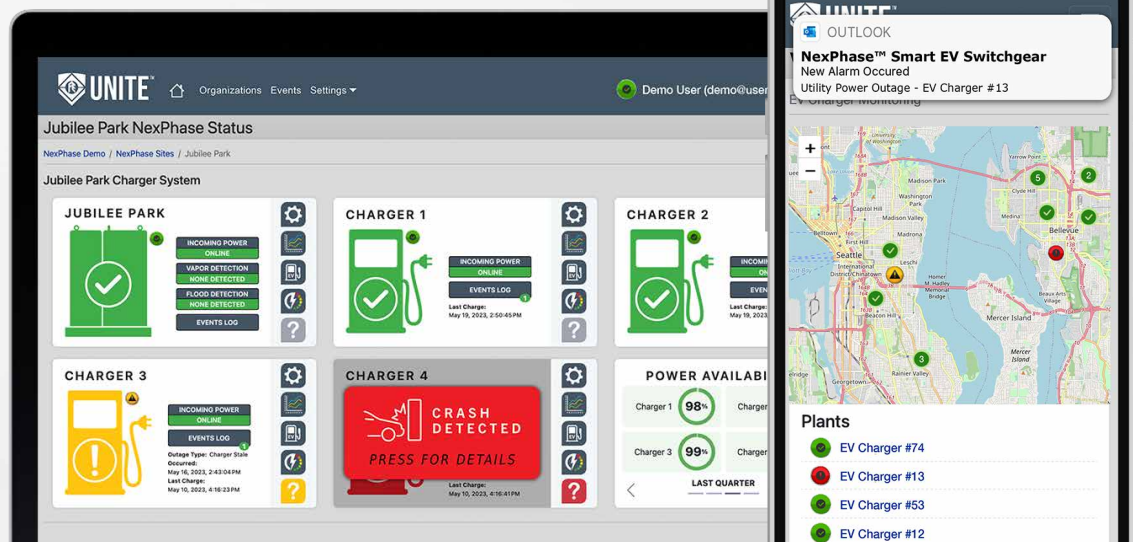
## POWER ANALYTICS

UNITE™ features advanced data visualization tools for incoming utility power monitoring. Track and trend key power metrics including:

- Current by Phase
- Voltage by Phase
- Power Factor by Phase
- Apparent Power
- Active Power
- Reactive Power

## TEST DRIVE UNITE™

Scan or click the QR code to demo UNITE™ on any device.



SCAN/CLICK FOR DEMO

View on tablet or PC for optimal user experience.

# NEXPHASE™

SMART EV SWITCHGEAR

POWERING THE **NEXT** MOBILITY TRANSFORMATION.



**Franklin Electric**  
EV SYSTEMS