



# Work Smarter, Not Harder


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## Agenda

- Introductions
- U.S. Electrification Infrastructure Trends
- Digital Technology for Electrical Contractors
  - Energy Management Systems (EMS)
  - Mobile Apps and Augmented Reality (AR)
- The Power to Inform with Digital Solutions
- Q&A



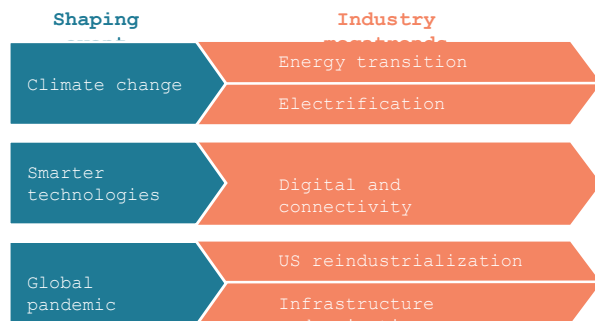
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## U.S. Electrification Infrastructure Trends



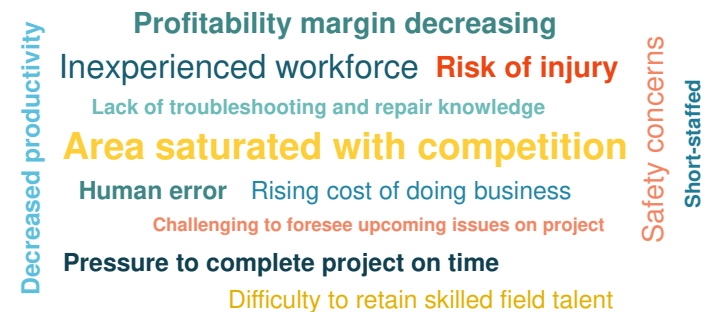
## The Electrification of Everything

Transformative shift in U.S. electrical infrastructure



## Electrical Contractor Challenges

Industry pain points

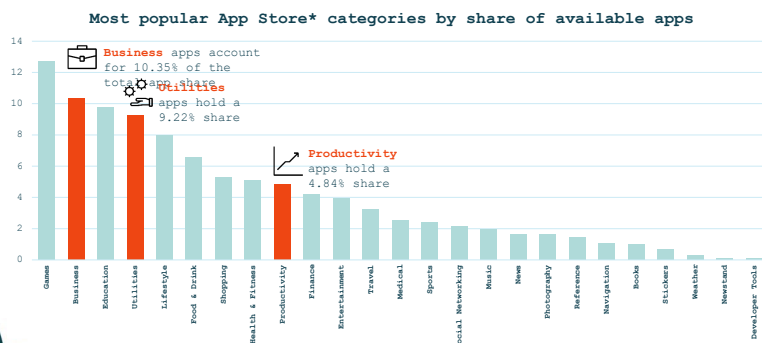


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## Mobile Apps

Usage by category



## Improve Your Productivity

With such a large combined app share, it's clear that digitalization through the use of mobile apps and digital tools for business, utilities and productivity is the way of the future



Electrical contractors can and should leverage this technology

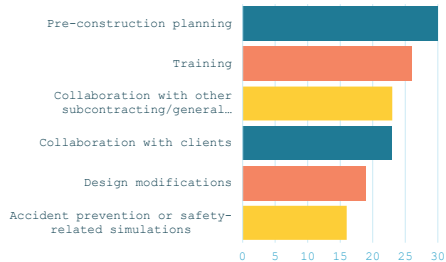
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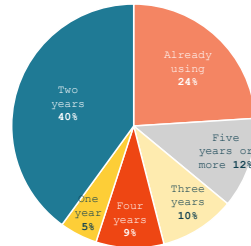
## Augmented Reality (AR) Adoption

EC&M 2023 Top 50 Electrical Contractor Survey & Report

Area Firms are Incorporating Augmented Reality into Business



Augmented Reality Adoption (N=42)



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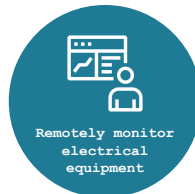
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## Digital Technology for Electrical Contractors



## Energy Management Systems (EMS)

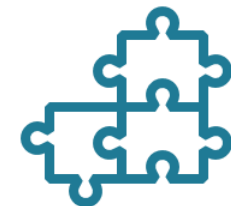
How can Energy Management Systems benefit the future of electrical contractors?



## Maximize Equipment Performance

Energy Management Systems (EMS)

Integrate digitally enabled equipment such as switchgear, switchboards and panelboards **quickly** with minimal engineering required



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## Manage Events and Alarms

Energy Management Systems (EMS)

Energy Management Systems can supply users with **alerts** and **predictive analytics** that provide insights about their electrical systems



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## Manage Events and Alarms

Energy Management Systems (EMS)

### Monitor trip events and alarms

Alerts in real time sent by email or text message, expediting solutions at one or multiple sites



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## Manage Events and Alarms

Energy Management Systems (EMS)

**Schedule reports** with relevant site information

Fully **customizable**, receive reports by device group and time, with the ability to **compare with prior data**



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## Remotely Monitor Electrical Equipment

Energy Management Systems (EMS)

Asset management tools can give access to **health monitoring & fault detection** for electrical equipment to help reduce unscheduled downtime



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## Remotely Monitor Electrical Equipment

Energy Management Systems (EMS)

Maintenance planning and predictive maintenance can minimize potential risks of unplanned downtime and increase equipment lifespan



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## Remotely Monitor Electrical Equipment

Energy Management Systems (EMS)

Remotely monitor and optimize energy usage by making improved and faster decisions using real time data insights to determine how and when energy is consumed



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## Work Smarter, Not Harder

Mobile Apps and Augmented Reality (AR)

Apps represent a simple but strong first step toward digitalization through wireless communication

Electrical contractors can greatly benefit from these apps



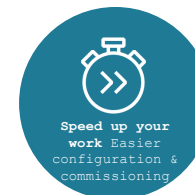
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## Mobile Apps and Augmented Reality (AR)

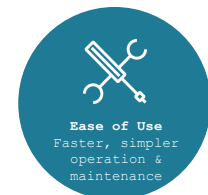
How can mobile apps benefit the future of electrical contractors?



Speed up your work  
Easier configuration & commissioning



Safer Operation

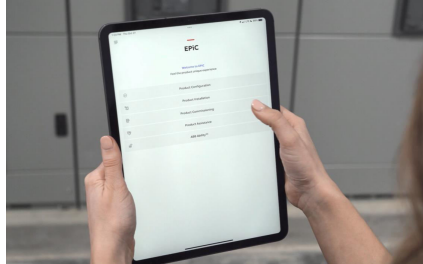


Ease of Use  
Faster, simpler operation & maintenance

## Speed Up Your Work

Mobile Apps and Augmented Reality (AR)

Mobile apps help electrical contractors & service providers **streamline configuration** and **commissioning**



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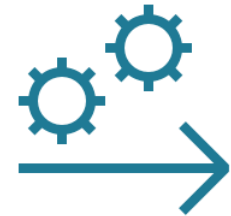


## Speed Up Your Work

Mobile Apps and Augmented Reality (AR)

### “Digital Twin” product settings

Breaker profile or configuration templates can be created, copied to the device, and then tweaked - this configuration data lives in the user's mobile device



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## Speed Up Your Work

Mobile Apps and Augmented Reality (AR)

### Add-on software

Customizable functionality and features + **unlock digital device upgrades** in the field



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## Safer Operation

Mobile Apps and Augmented Reality (AR)

In the past, it was difficult for personnel to **maintain a safe distance** from power distribution and control equipment from outside the arc flash zone



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

Routine tasks such as **installing, configuring and maintenance** can be performed remotely, reducing the risk of serious injury



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

### Wireless communication

Eliminate the need for cables or laptops, which are difficult to handle in tight electrical environments



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

### Augmented reality and QR code scanning

Mobile camera will redirect electrical contractors to up-to-date manuals, data sheets, instruction manuals, and declarations of conformity



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

Scan QR code located on front of equipment to obtain key information about the product such as **datasheets, configuration, installation instructions, and factory test reports**



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

Reporting tools can reduce unnecessary paper and improve **ease of access** to documentation and product information, **increasing speed and efficiency** on site



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## Ease of Use

Mobile Apps and Augmented Reality (AR)

### Download device data for review and analysis

A detailed record of performance stored within the device



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## The Power to Inform with Digital Solutions



## The Power to Inform

Site using Energy Manager paired with Mobile App

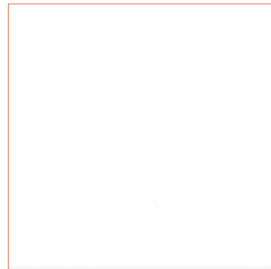


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## Digital Technology for Electrical Contractors

Energy Management System + Mobile App are your digital partners for easy and smart:



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## Connect with Digital Solutions Team



Digital Solutions

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Digital Solutions

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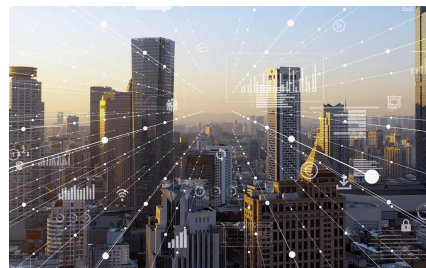
Energy Manager

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Mobile App

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Q&A

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