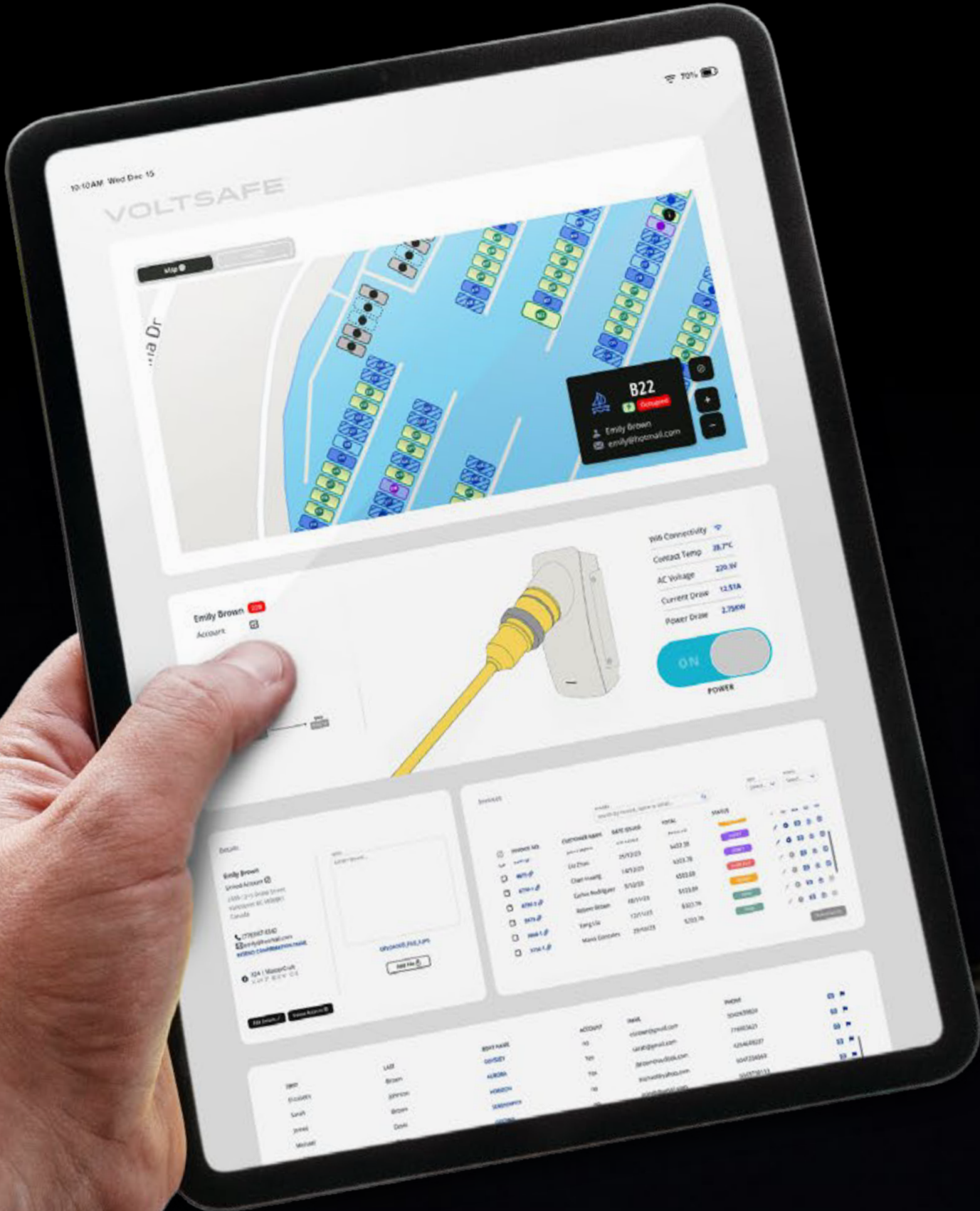


ELECTRIC
OPPORTUNITIES:
MARINA SHORE
POWER'S
FUTURE

TREVOR BURGESS
CEO & CO-FOUNDER,
VOLTSAFE



WHAT WE'LL COVER

- 1 The Mission Pillars of Public Ports (Marinas)
- 2 A Brief History of Marina Shore Power
- 3 Problems Associated with Traditional Plugs
- 4 NEC 2023 & 2026 Code Changes & Impact
- 5 Smart Marina Infrastructure
- 6 Electrification, Microgrids & Peak Demand
- 7 Transparency, Billing & Boater Trust
- 8 Grants, Subsidies & Incentives
- 9 Market Landscape & Modernization Trends
- 10 Innovation Case Study: VoltSafe
- 11 Final Takeaways & Q&A

1 THE MISSION PILLARS OF PUBLIC PORTS

- Economic Development
- Asset Stewardship & Public Infrastructure
- Environmental Responsibility
- Public Access & Community Benefit
- Compliance & Safety



555.1 Scope



Public



Private

2 A BRIEF HISTORY OF MARINA SHORE POWER

1920s -
1930s

First electrified marinas

1950s -
1960s

Twist-lock connectors become standard

1984

NEC adds Article 555

1990s

Surge in dockside power demand

2000s

Safety incidents drive scrutiny

2010s

Smart addons emerge

2020s

Regulation tightens, innovation lags

2026

VoltSafe launches prongless, intelligent shore power

555.33 Receptacles



30A, 125V

- Twist-lock
- Requires 30mA ground-fault protection



50A, 125/250V

- Twist-lock
- Requires 30mA ground-fault protection



20A, 125V GFCI

- Not for powering boats
- Labeled: “Not For Shore Power”
- Must be internally ground-fault protected

555.33 Receptacles

- Each receptacle requires a circuit breaker
 - Same amperage
 - Same voltage
- Photo:
 - Receptacle - Breaker
 - 50A 125/250V – 50A, 2-Pole
 - 30A 125V – 30A, 1-Pole
 - 20A 125V GFCI – 20A, 1-Pole



Receptacle Selection

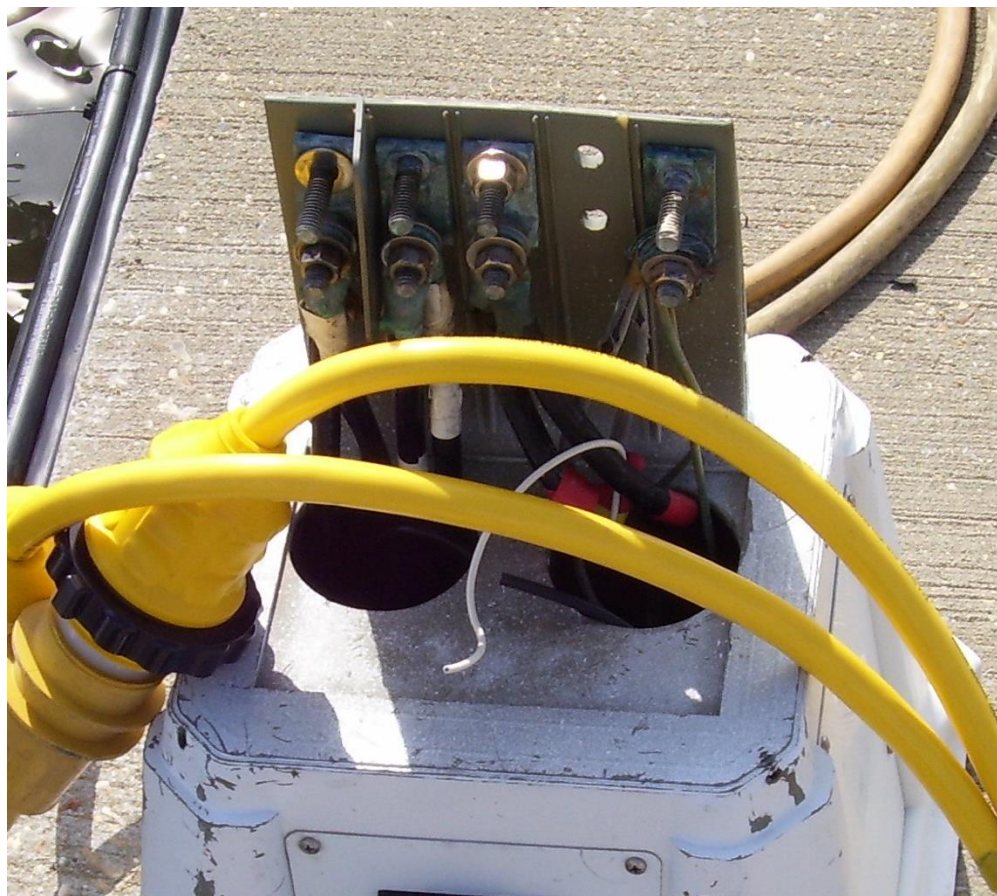
Boat Size	Minimum Requirement	Preferred
25' and Under	(1) 20A GFCI	(1) 30A and (1) 20A GFCI
25' to 35'	(1) 30A	(2) 30A
36' – 42'	(2) 30A	(1) 50A
43' – 50'	(1) 50A	(2) 50A
51' – 65'	(2) 50A	(2) 50A
66' – 70'	(2) 50A	(2) 50A and (1) 100A 125/250V
71' – 80'	(2) 50A and (1) 100A 125/250V	(2) 100A 125/250V
81' – 95'	(2) 100A 125/250V	(2) 100A 125/250V and (2) 100A 120/208V
96' – 115'	(2) 100A 120/208V	(2) 100A 120/208V and (2) 100A 480V
116' – 150'	(2) 100A 120/208V and (2) 100A 480V	(2) 100A 480V and (1) 200A 480V*
151' – 200'	(2) 100A 480V and (1) 200A 480V*	(2) 200A 480V*
201' +	(2) 200A 480V*	(2) 200A 480V*

*** Cam-Lock Connectors Highly Recommended**

Homemade Cord Sets and Adapters



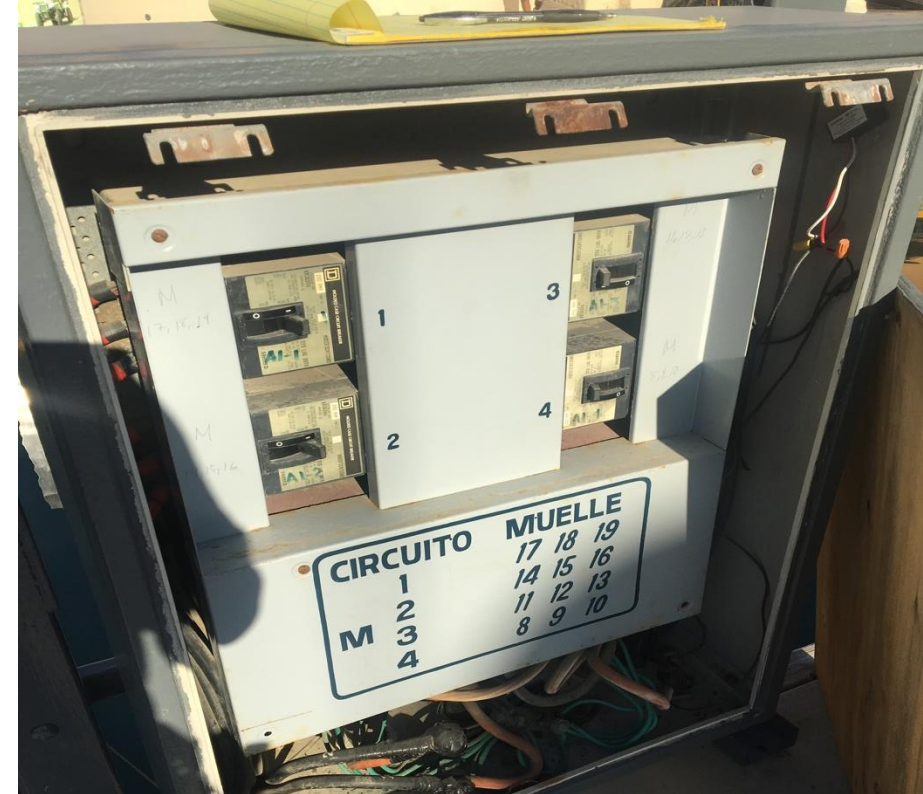
Damage



NFPA 303 5.20



Missing Doors



NFPA 303 5.20



Contact Information:



Chris Dolan
Marina Electrical Equipment
Vice President – Sales / Design
chrisdolan@marinaee.com

E-mail for CEUs

General Note – *Listed Products*

- Listed products go through stringent tests to ensure products meet certain safety guidelines.



General Note – *Adapters and Splitters*



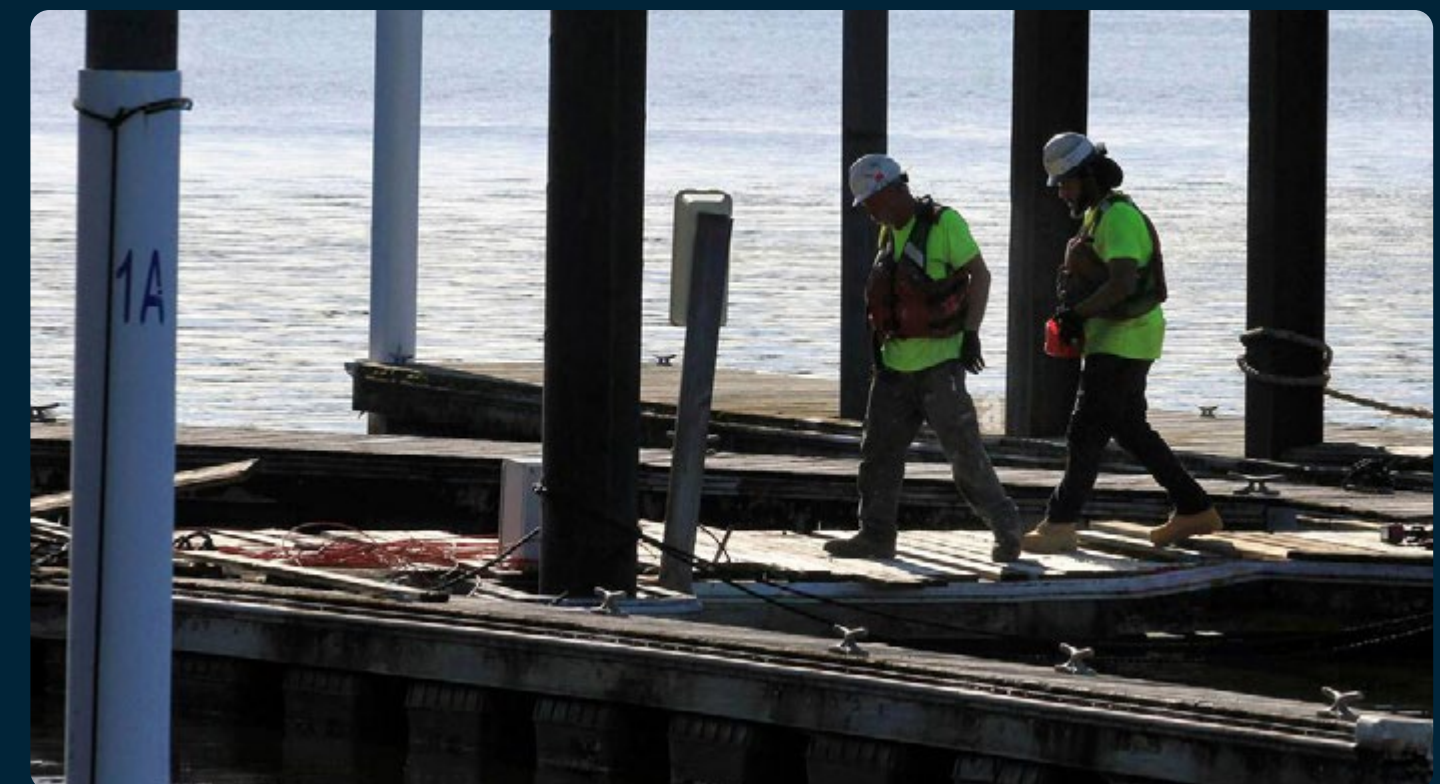
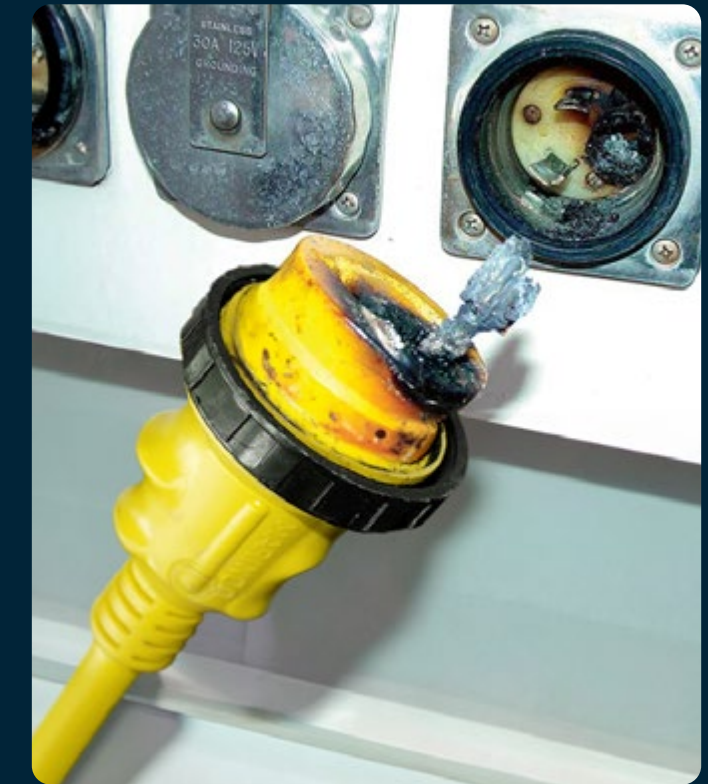
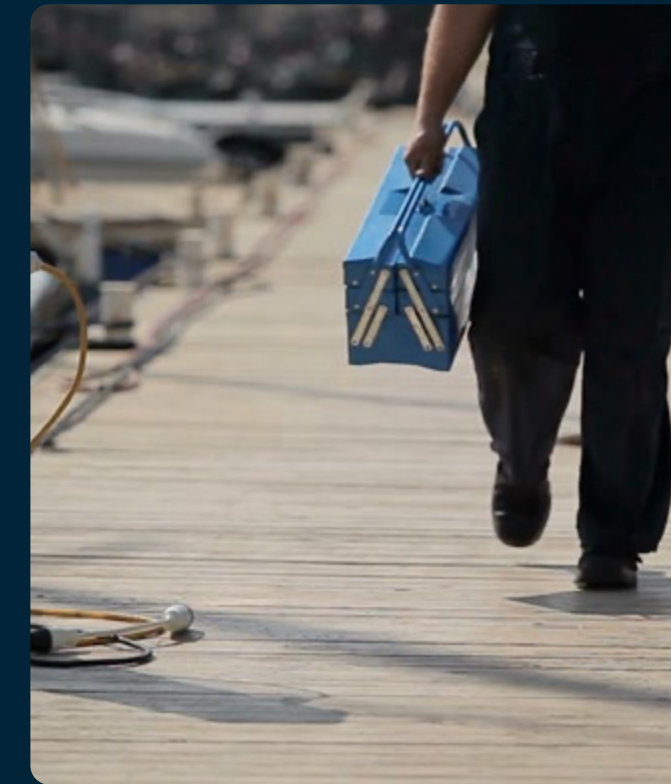
- Most “Y-Adapter” cord sets are not listed products and do not provide the proper circuit protection for a safe electrical connection.



- Listed products go through stringent tests to ensure products meet certain safety guidelines.

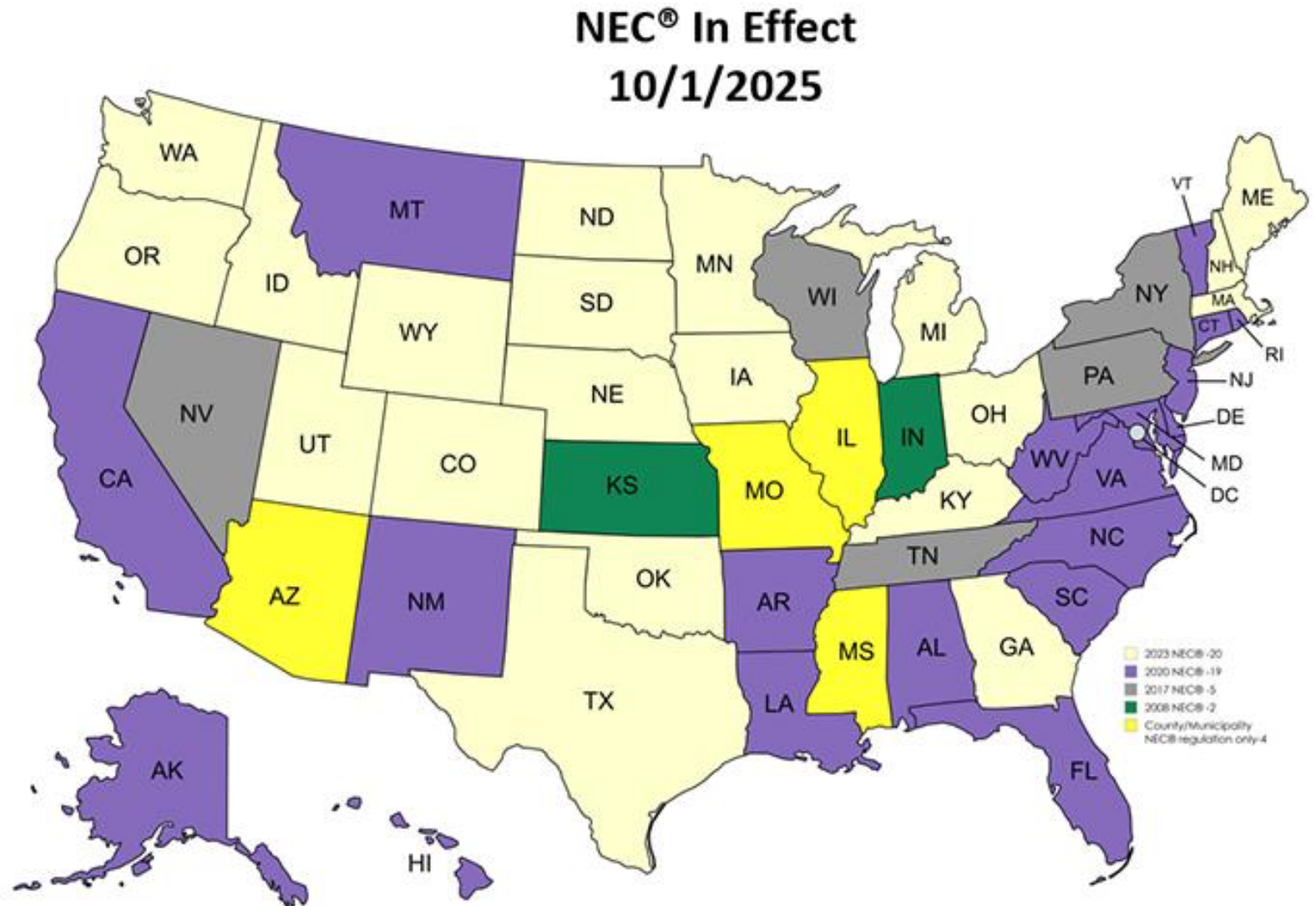
3 THE 'CURRENT' PROBLEM

- > Hidden risks
- > Rising costs
- > Liability exposure
- > Customer expectations



General Note: Code Adoption

- States adopt version of the National Electrical Code at different times.
- Map Courtesy of NFPA.org



NFPA 303 5.20



Why Is Testing Required?



- Identify boats with potentially dangerous electrical leakage problems before they connect to your marina electrical system.
- Typically ground-fault monitor tied to various receptacles and circuit breakers designed to evaluate the integrity of a boat's electrical system.
- Visual displays help provide added piece of mind that a boat connecting to your marina is electrically safe.

555.33 Receptacles



- At least 12" high



- Not below electrical datum plane

555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter

- **Receptacles in pedestals** must be protected at 30mA or less
- 30A and above used for shore-power = 30mA or less
- Anything not for shore power = 5mA or less



555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter

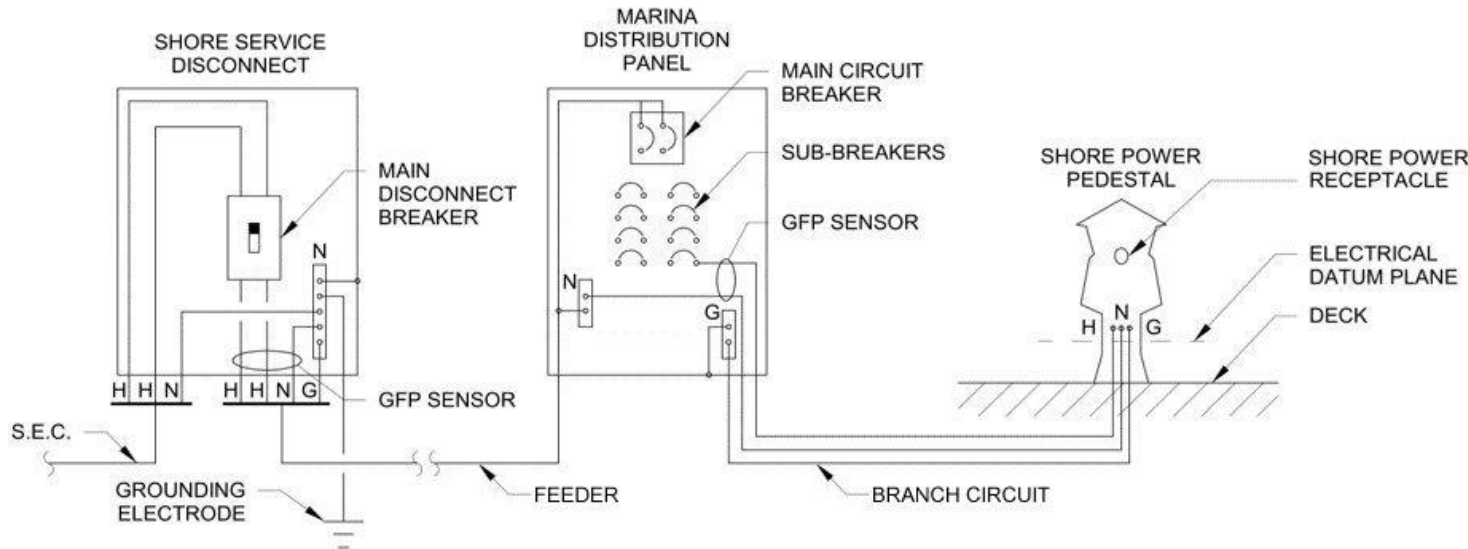


Diagram Courtesy of Gary Loftis

- **Feeders** must be protected at 100mA or less
- Feeder – cable or wire powering distribution equipment.
- Examples include cables going to
 - a Transformer
 - a Disconnect
 - a Panelboard

555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter



555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter

- **Will become effective January 1, 2026.**
- No grandfather clauses.
- No adoption delays.



NFPA 303 4.8: Ground-Fault Testing for Marinas



- All vessels shall be tested for the presence of ac ground faults at the time of the initial connection to the marina electrical system...
- Required annually
- Vessel must display leakage under 30mA
- Retroactive within 2-years of adoption
- Needs to be documented
- Why?
- How and Where?

555.35 Ground-Fault Protection of Equipment (GFPE) and Ground-Fault Circuit Interrupter

- **Facilities with more than three (3) receptacles for boats** must have a leakage testing device for boats.
- Each boat must be tested prior to plugging into the marina.

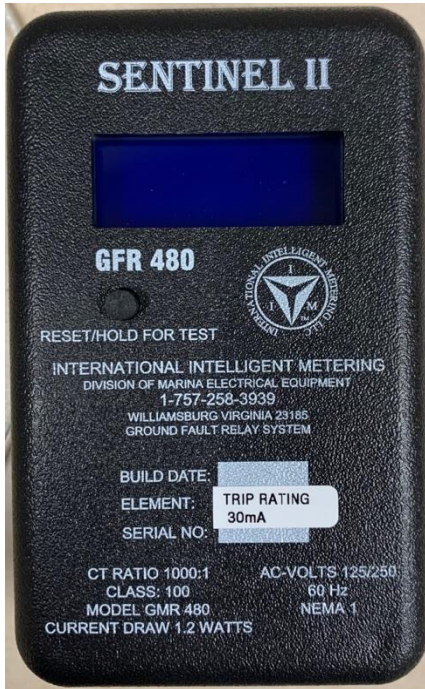


555.36 Disconnecting Means for Shore Power Connection(s)

- Each marina power outlet shall have an emergency shutoff device that must:
 - be within sight of the power outlet.
 - be externally operable.
 - be manually resettable.
 - deenergize all power to the power outlet.



How and Where to Test?



Monitors:

- Types:

- Single-Channel
- Multi-Channel
- Integral CT
- Digital Displays

- Locations:

- Portable
- Permanent
 - Fuel Piers
 - Greeting Docks

Cord Set Testers



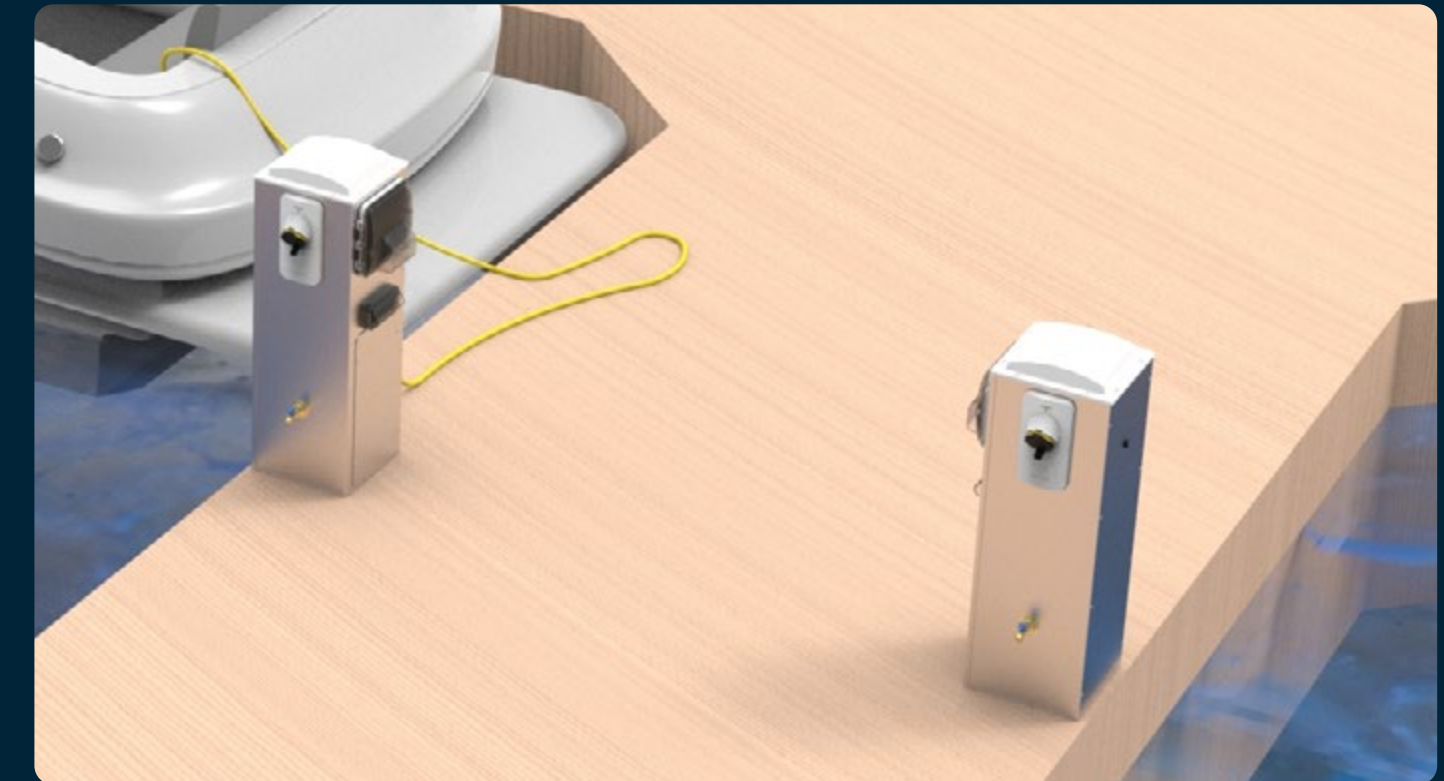
555.15 Replacement of Equipment

- Maintenance
 - Light Bulb
 - Receptacle / Breaker
 - Meter
- Modification
 - New dock
 - New panel
 - New cable



4 NEC 2026 CHANGES — ARTICLE 555

- Mandatory 30mA GFCI for all marina receptacles >20A
- Disconnects required within line-of-sight
- Equipment must be installed 12" above high-water datum
- No grandfathering of old gear
- Mandatory leakage current testing before plug-in



5 SMART MARINA INFRASTRUCTURE

- Real-time power usage per slip
- Predictive maintenance analytics
- App-based user access & notifications
- Integrated billing + alerts
- No bolt-ons: fully embedded tech



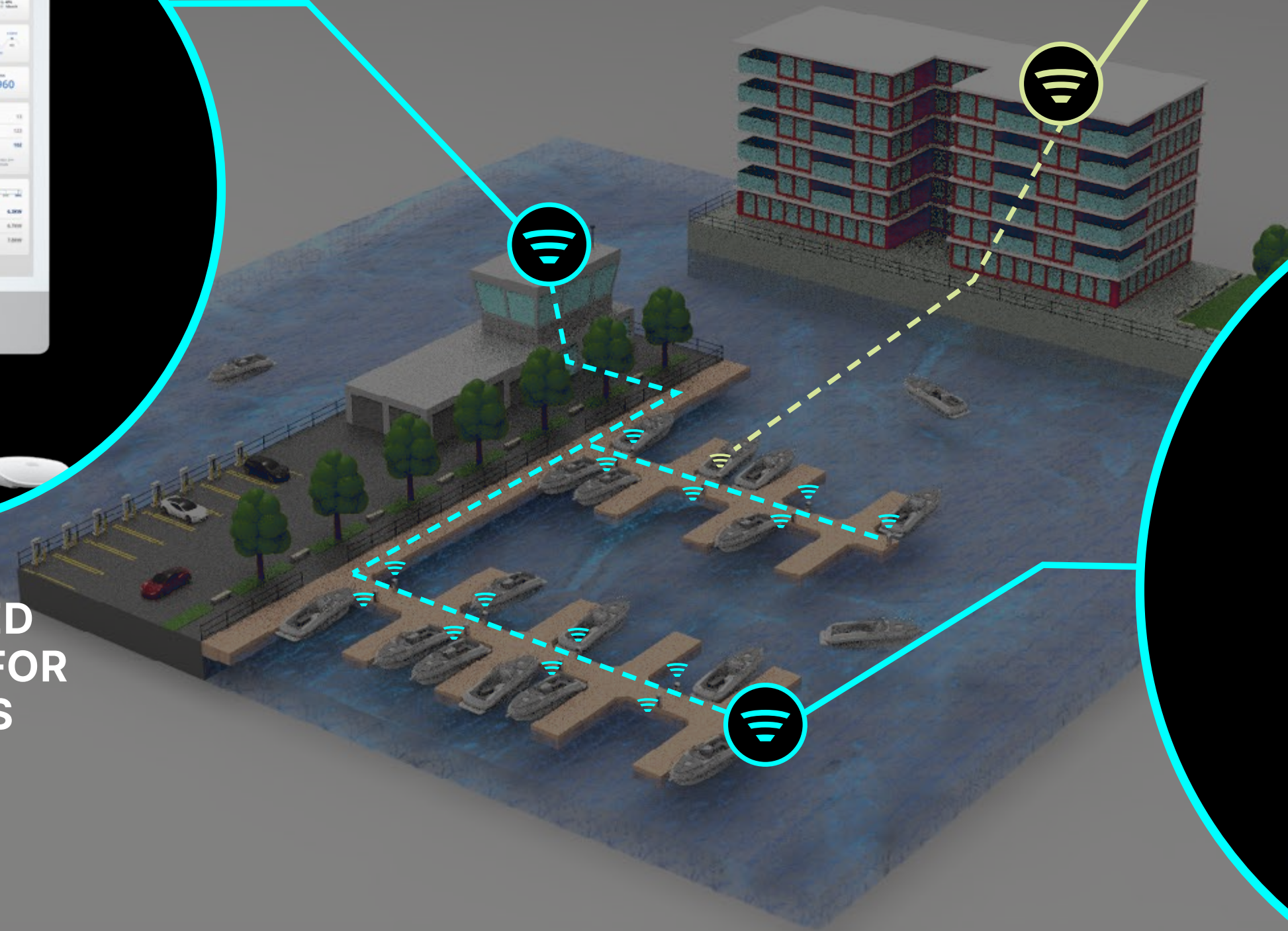
**CENTRALIZED
DASHBOARD FOR
OPERATORS**



BOATER'S APP



VOLTSAFE PEDESTALS





**REINVENTING
THE WAY PEOPLE
CONNECT TO
AND CONTROL
ELECTRICITY**





THE WORLD'S FIRST HIGH POWER PRONGLESS SMART PLUG.

VoltSafe has created an outlet and prongless, magnetic connector controlled by an energy management dashboard or app delivering a safe, simple and smart solution that **saves time, money, energy and lives.**

VOLTSAFE TECH IS: SAFE



Our technology uses exposed, touch-safe conductive contacts that only activate when connected, thanks to magnets and unique electrical fingerprints. This prevents arcing and allows for easy cleaning to avoid corrosion and fire risk.

SIMPLE



Our prong-free, magnetic connectors enables easy connection and breakaway disconnection, increasing accessibility for everyone. Our tech is adaptable to any application requiring conductive high power electricity.

SMART



ALL VoltSafe solutions include proprietary and robust energy management capabilities.

IT'S A THREE-PRONGED PROBLEM.

Traditional pronged plugs and outlets are outdated and problematic, despite decades of safety tweaks like ground fault adapters and tamper-resistant covers. These additions often create more frustration than function. A century-old design still limits how we power the modern world.

At VoltSafe, we are innovating on how we connect to and manage electricity - without prongs - so we can finally be rid of antiquated, unsafe and inefficient ways of connecting to power...

PRONGED PLUGS ARE: UNSAFE



Recessed and always-live traditional outlets pose serious safety risks, including corrosion, arcing, fires, and electrocution.

UNFRIENDLY



Pronged plugs are hard to use for those with mobility challenges, pose tripping hazards, and can cause serious infrastructure damage.

UNINTELLIGENT



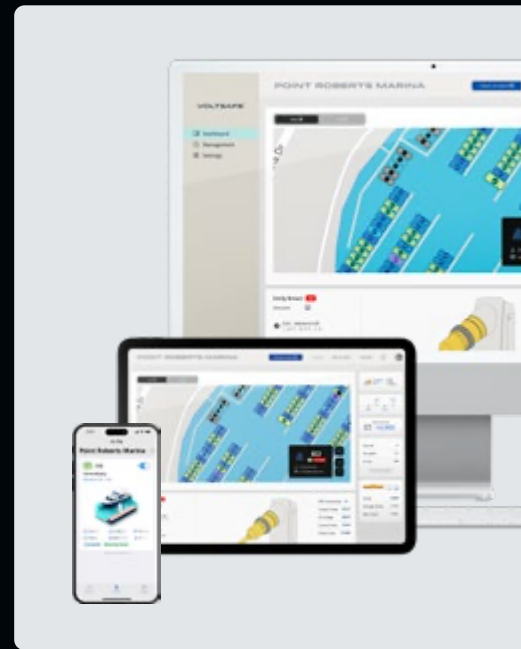
Pronged metal plugs don't allow for fully integrated smart features such as granular energy management, or efficient automation.

10 INNOVATION SNAPSHOT — VOLTSAFE

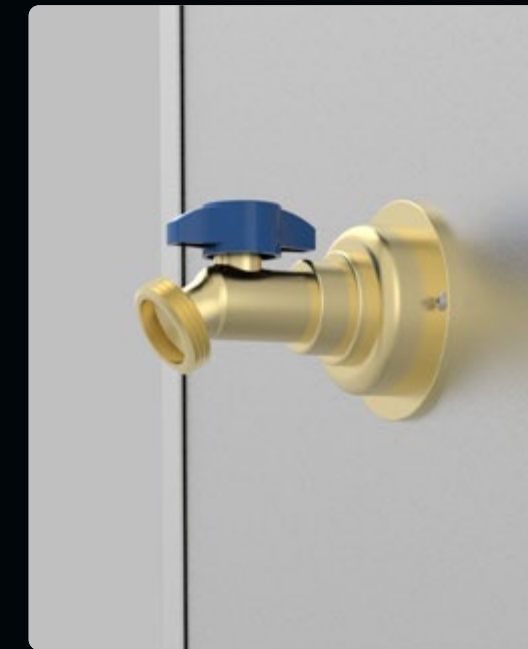
- First certified prongless smart shore power
- No arcing, no corrosion, no exposed live metal
- Smart pedestal + dashboard + app = one ecosystem
- NEC 2026 ready + embedded load sensing



L5-30 ADAPTER



SOFTWARE SUITE



WATER SPIGOTS



BREAKER PANEL



SMART LEDs



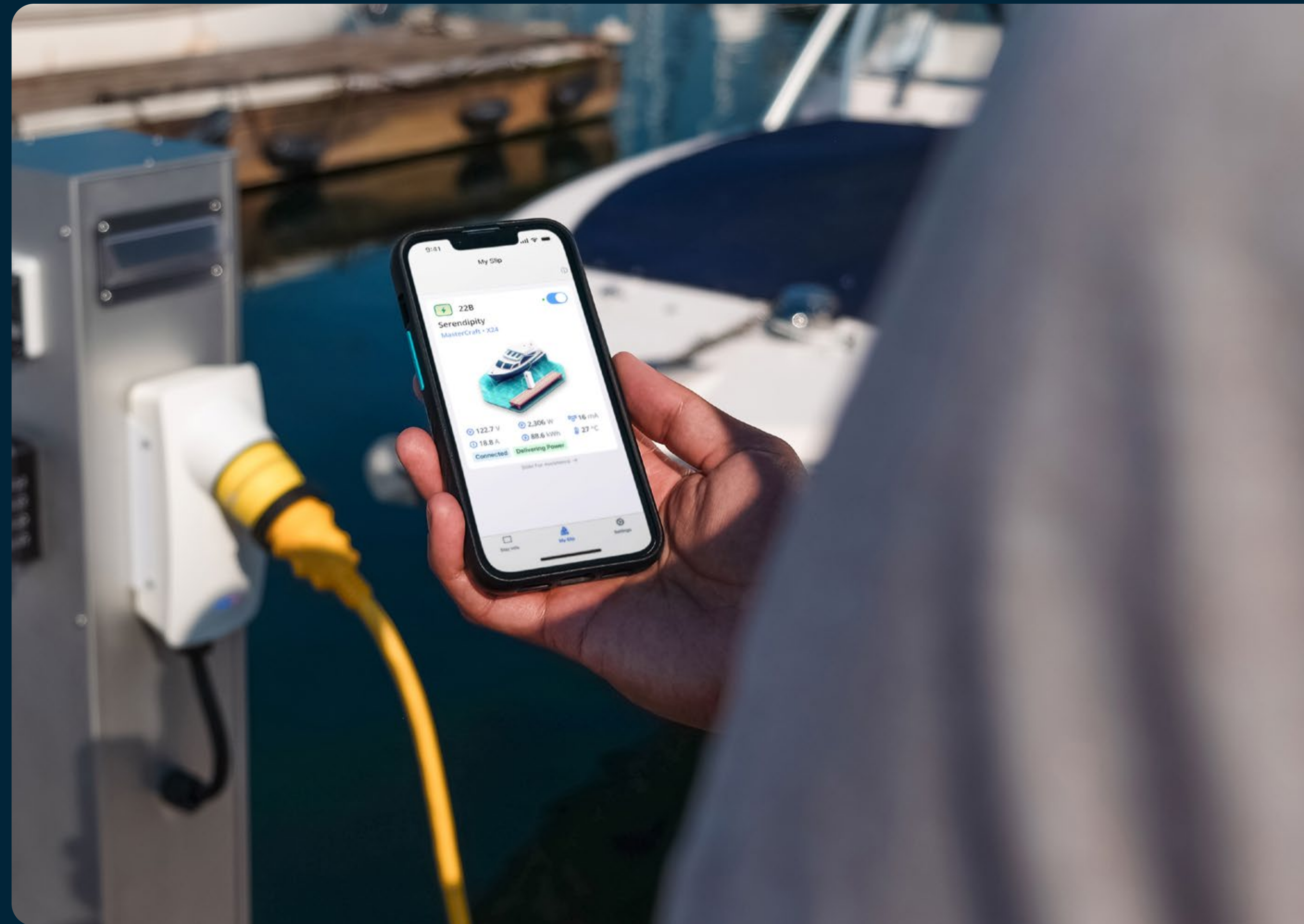
9 MODERNIZATION TRENDS & STATS

- 65% of boaters prefer marinas with smart tech
- Smart shore power = 42% fewer outages
- Automated billing = 80% fewer disputes
- +18% avg revenue lift from smart energy tools



7 TRANSPARENCY & BOATER TRUST

- Show power usage in boater app
- Automated, itemized billing
- Instant alerts for unsafe loads
- Visibility builds trust & loyalty



5 MAKE ONE DECISION, NOT EIGHT

GROUND FAULT
LEAKAGE
DETECTION



LEAKAGE
MEASUREMENT



AUTOMATED
PAYMENT



IOT METERING
MODULES



LOAD
MANAGEMENT



MANAGEMENT
SOFTWARE



REMOTE
ON/OFF



HARDWARE

CONTROL BOX AND PEDESTAL	VOLTSAFE SOLUTION	LIGHTHOUSE (SS) INCUMBENT CORD	HARBOR LIGHT (SS) INCUMBENT CORD
No Arcing	✓	✗	✗
No Corrosion	✓	✗	✗
IP67 - Sealed to Safety	✓	✗	✗
Marina Grade Aluminum	✓	✗	✗
Does not Electrify the Water	✓	✗	✗
Does not Trip Breakers	✓	✗	✗
Prevents Stray Current	✓	✗	✗
Accessibility - Easy to Connect/Disconnect	✓	✗	✗
Surge Protection	✓	✗	✗
Revenue-Grade Power Metering	✓	✗	✗
LED Power Indicator Light	✓	✓	✓
Automated Safety	✓	✗	✗
Remotely Turn Power On and Off	✓	✗	✗

SOFTWARE

DASHBOARD AND COMPANION APP	VOLTSAFE SOLUTION	DOCKWA	MARINE SYNC
Marina Manager Dashboard	✓	✓	✓
Boat Owner Companion App	✓	✓	✓
Boat Owner Shore Power Control	✓	✗	✗
Interactive, Real-Time Slip Map	✓	✗	✗
Current Leakage Detection	✓	✗	✓
Built-In CRM	✓	✓	✓
Automated Billing	✓	✓	✗
Temperature Monitoring	✓	✗	✗
Automated Check In/Out	✓	✗	✗
Real-time Power Usage Data/Analytics	✓	✗	✓
Real-time Device notifications	✓	✗	✓
Peak Demand Monitoring	✓	✗	✗
Peak Demand Reduction	✓	✗	✗
Marina Shore Power Control	✓	✗	✓

10 WHAT GOOD LOOKS LIKE



- > Magnetic, prongless shore power system.



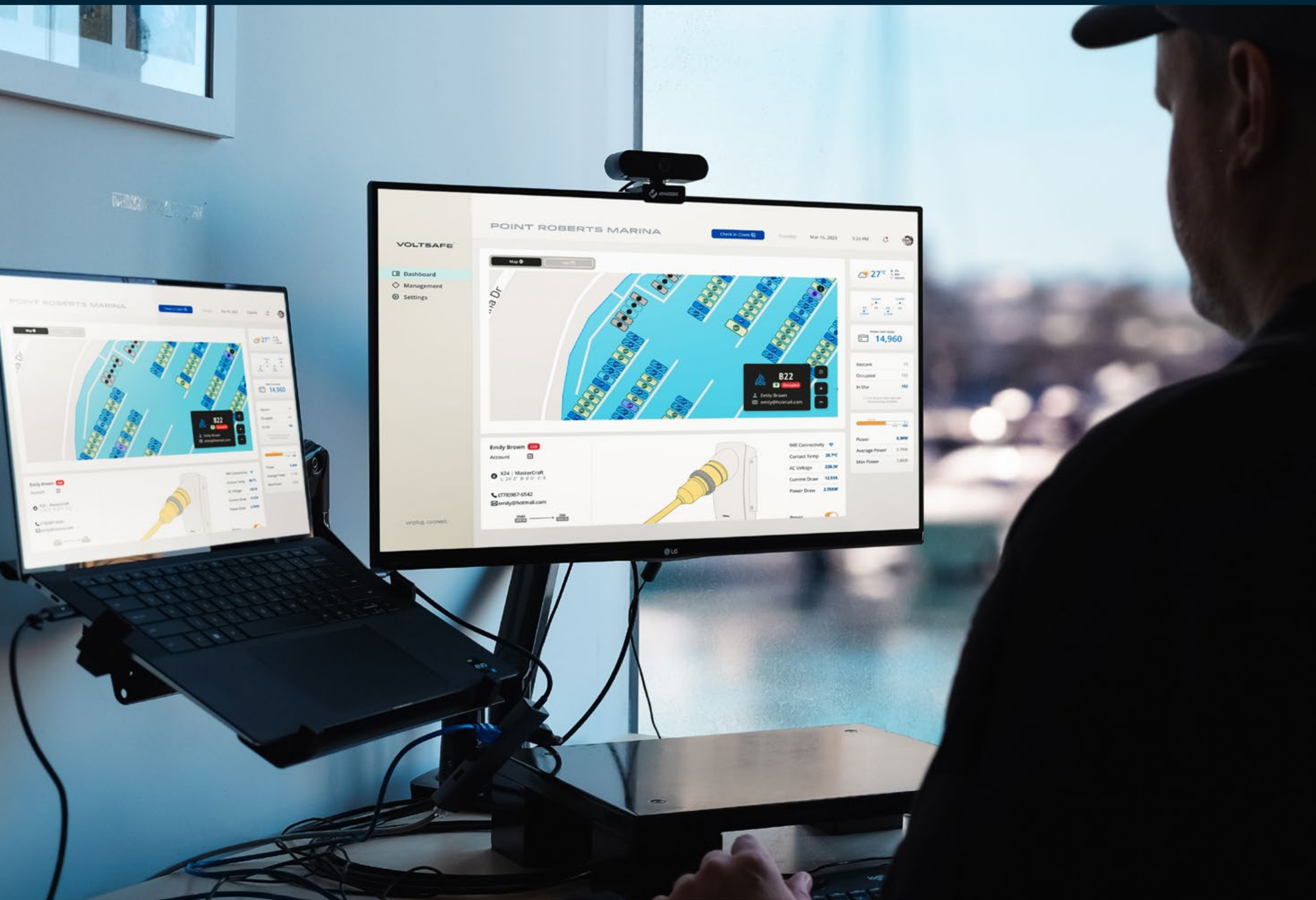
- > Off by default = no risk of shocks.



- > Smart dashboard + boater app = real-time visibility, automated billing, alerts.



- > Seamless fit with existing marina cord sets.



6 PEAK DEMAND MANAGEMENT

- AC, EV chargers, cooktops = massive draw
- Load balancing spreads demand efficiently
- Avoid surprise charges & downtime



THE IMPACT

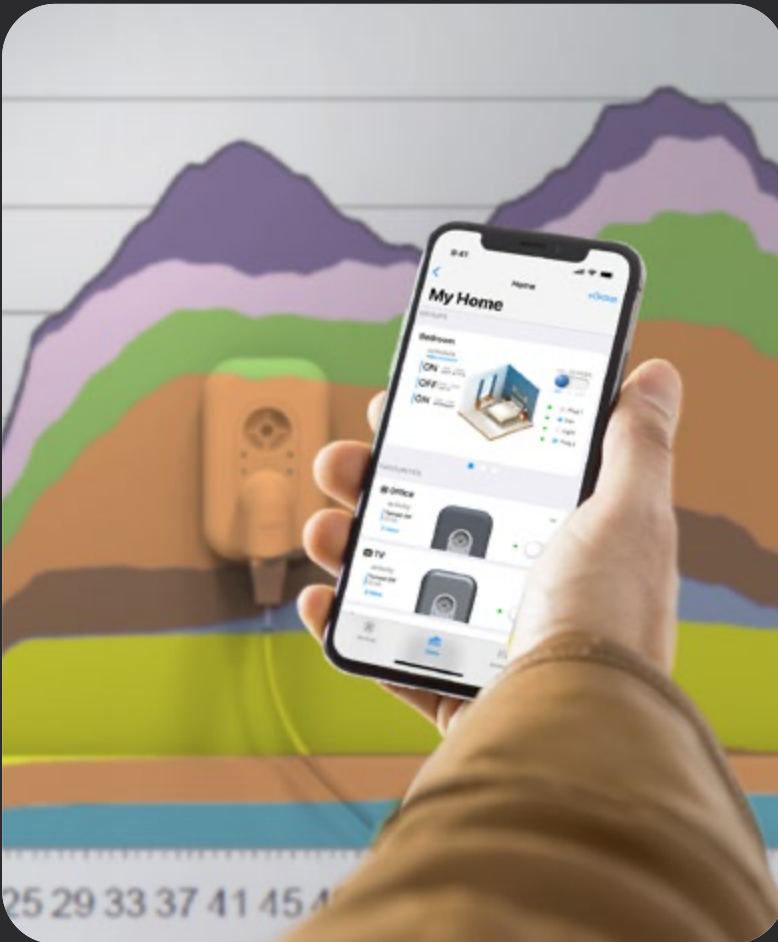
VoltSafe has reimagined how we connect to electricity. Our patented magnetic plug technology is **safe, simple, and smart**. This isn't just an upgrade to how we use power - it's the future of how we connect to and control electricity. VoltSafe is the only company in the world to successfully **achieve safety certification** and **procure patents** on prongless plug contacts for conductive power.

SAVES LIVES



- ▶ No live electricity until connected
- ▶ Certified to aerospace-level safety
- ▶ No fires, no electrocution, no hidden corrosion

SAVES ENERGY



- ▶ Built-in energy monitoring
- ▶ Remote control + automation
- ▶ Outlet-level data drives efficiency

SAVES MONEY



- ▶ Cuts utility bills and peak demand charges
- ▶ Reduces infrastructure or asset damage and downtime
- ▶ Minimizes insurance claims infrastructure damage

SAVES TIME



- ▶ Reduces manual labour
- ▶ Remotely manage power at the outlet
- ▶ Get push notifications before challenges arise
- ▶ Monitor energy usage in real time
- ▶ Effortlessly manage fleets or customer info

6 ELECTRIFICATION & MICROGRID POTENTIAL

From Energy Expense
→ Energy Asset

- > EV boats + dock electrification = new demand profiles
- > Microgrid resiliency & revenue (load shaving, storage)
- > Participating in grid programs = ROI multiplier



8 GRANTS, REBATES & SUBSIDIES

- Federal: IRA electrification grants
- State: WA clean infrastructure incentives
- Utilities: Peak shaving & metering rebates

Tip: Have your ROI roadmap ready — grant reviewers expect it





9 THE MARKET LANDSCAPE TODAY

- Most marinas run on 20th-century tech
- Code changes force decisions
- Boaters expect seamless, safe, smart service
- Hardware/software silos must merge

9 THE PLAYERS TRYING TO KEEP UP

Eaton, HyPower

Traditional hardware +
bolt-on metering

MarineSync, Quadlogic

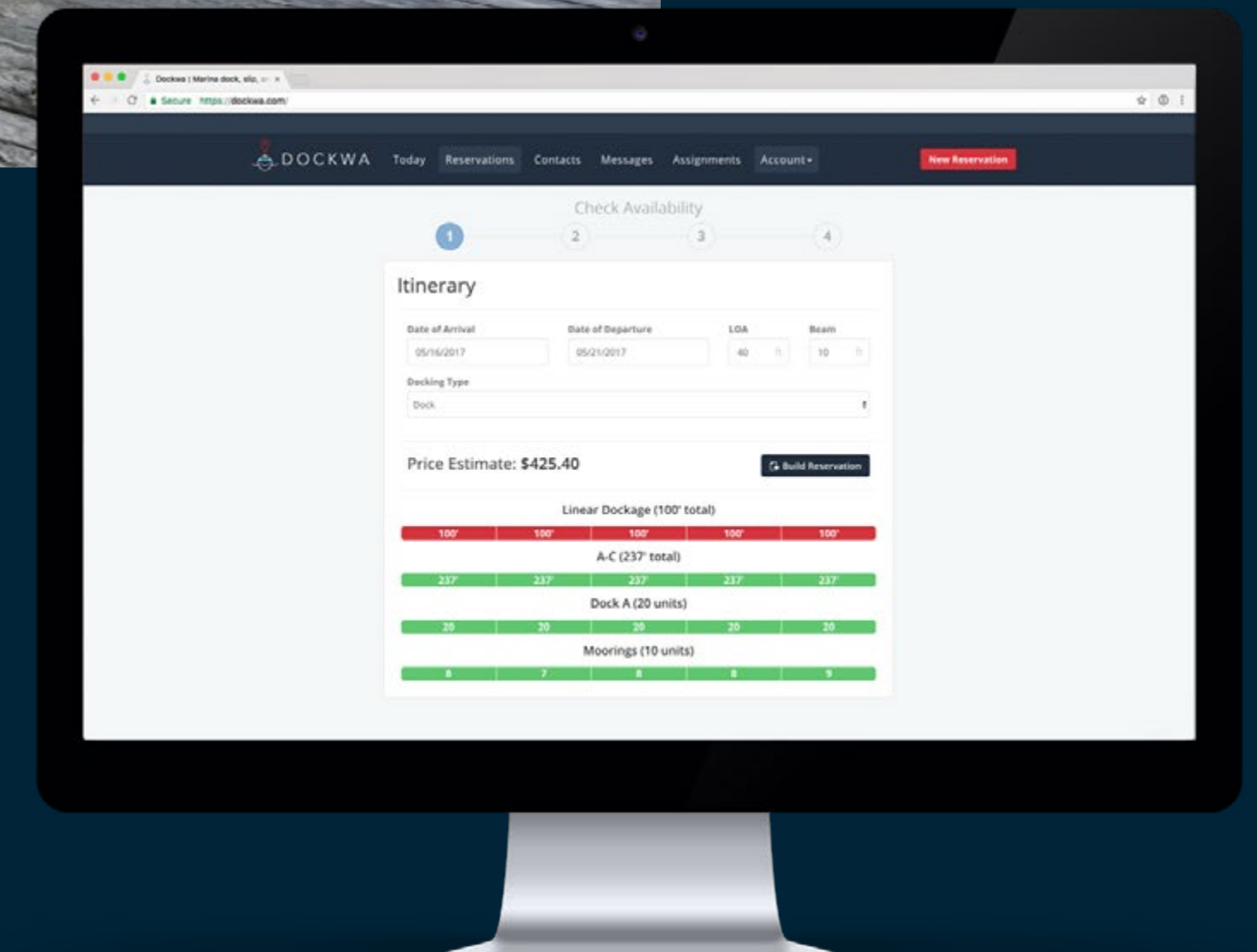
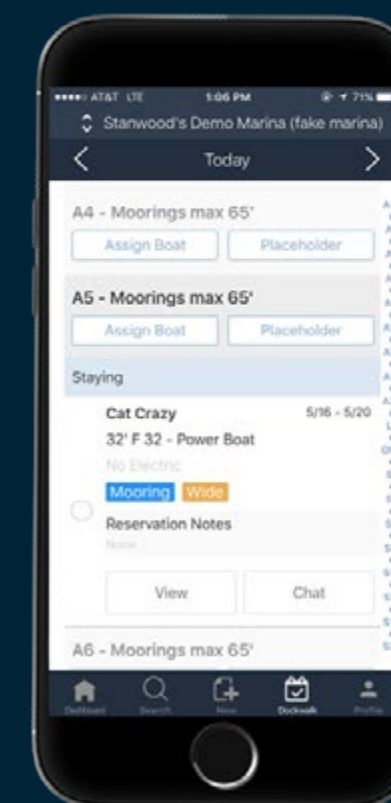
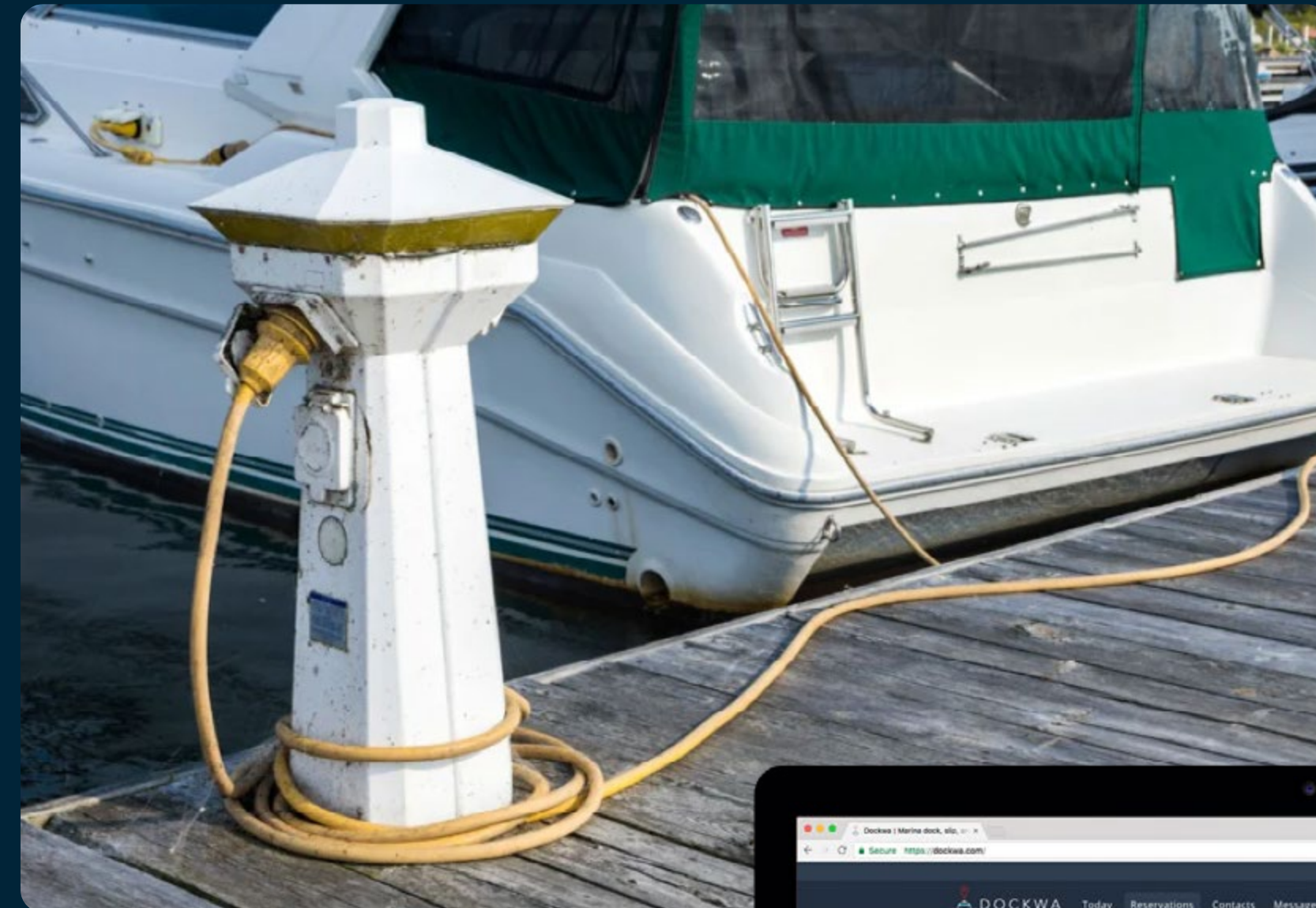
Utility monitoring, no smart control

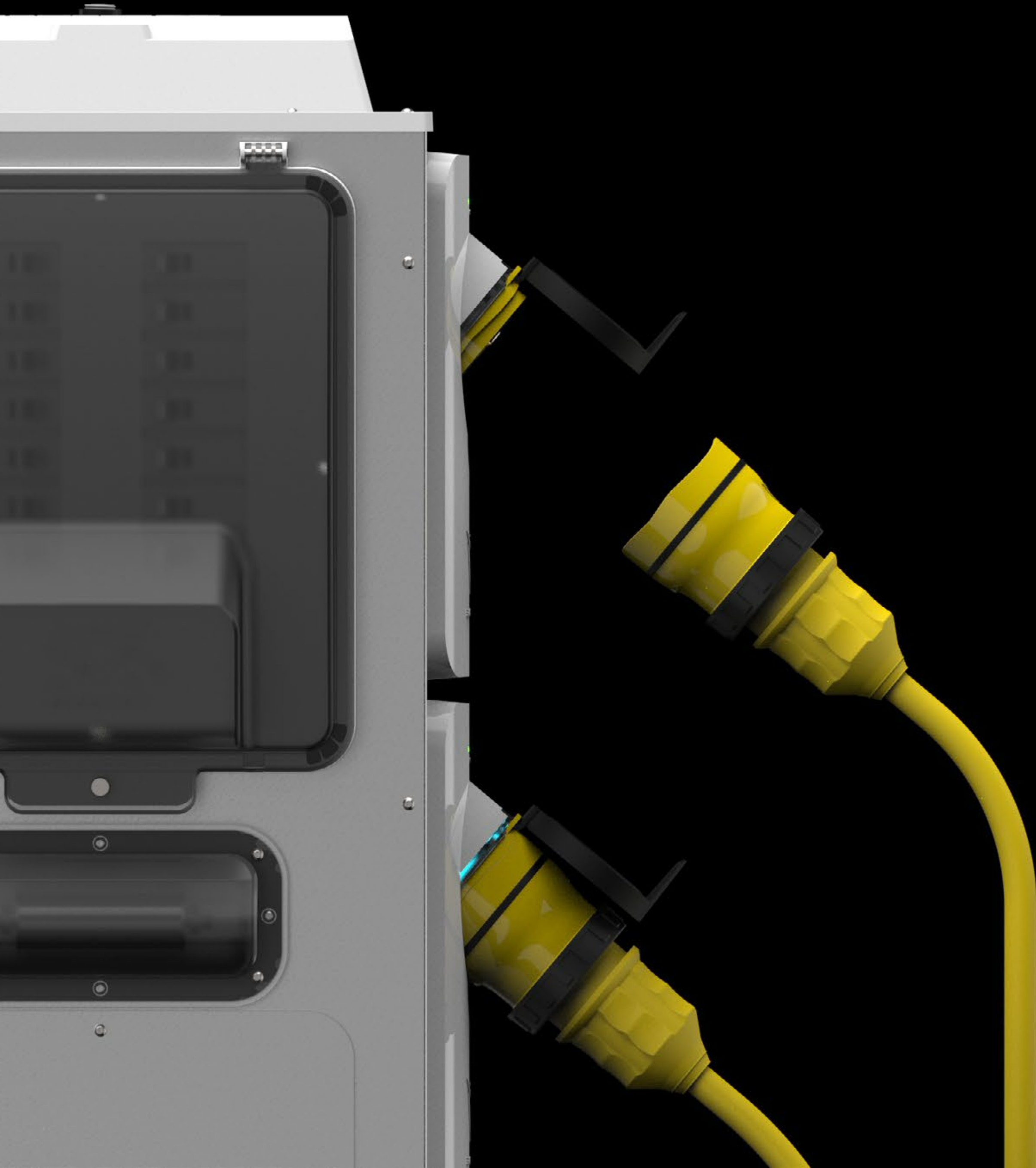
Dockwa, Molo

CRM with limited hardware touch

VoltSafe

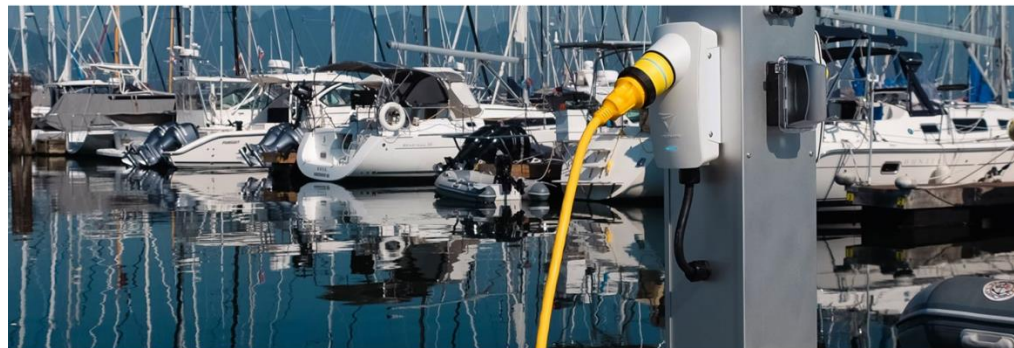
Full-stack, prongless, real-time
smart power





FINAL TAKEAWAYS

- NEC mandates are real — and they're coming fast
- Smart shore power pays for itself (less downtime, less liability)
- Electrification can be an asset, not just a cost
- The future isn't bolt-on smart tech. It's native intelligence



2023 IBEX Innovation Award Interview with VoltSafe

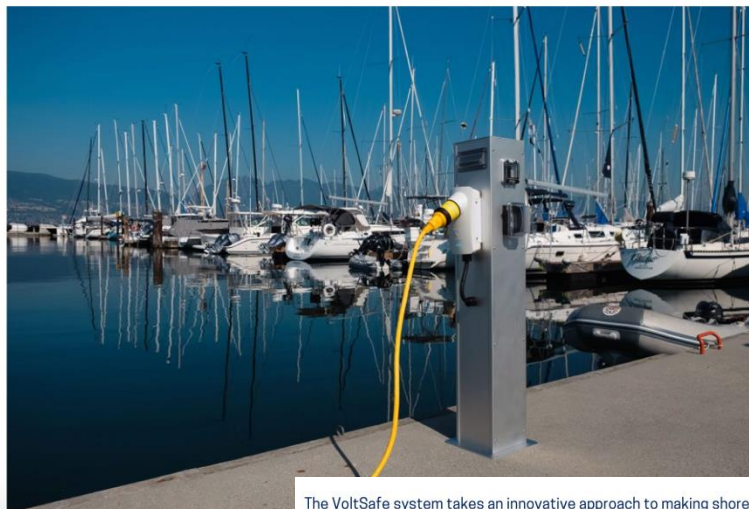
WRITTEN BY: RYAN GULLANG
NEWS DATE: JANUARY 17, 2024
📅 2023 WINNER INTERVIEWS
🌊 NEW IN 2023

IBEX SHOW – Innovation Award Winner Interview

January 2024

VoltSafe Makes Shore Power Safer, Simpler, and Smarter

Electricity and water are quarrelsome bedfellows. It's one of those physical properties that modern life imparts on a subconscious level. That's why, at first glance, a shore power pedestal sitting on a dock may elicit the same twinge as a hairdryer perched on the rim of a bathtub. Enter VoltSafe Marine – a company that looked at the pain points imposed by pedestals and said "That just won't do."



The VoltSafe system takes an innovative approach to making shore power smarter, simpler, and safer for boaters. As such, IBEX's 2023 Innovation panel recognized it with an award in the Boatyard and Marina Hardware and Software category. With boats becoming ever more electrified, VoltSafe is paving the way towards safer shore power and more sustainable boating.

What problem was VoltSafe designed to solve?

VoltSafe makes connecting to high-voltage electricity safer, simpler, and smarter than ever before. For years, we have struggled with antiquated ways to connect to electricity using prongs and recessed contacts. Particularly around water, this is a dangerous combination. Corrosion can go undetected inside shore power outlets, leading to arcing and devastating marina and boat fires. Live cords around water are especially dangerous. VoltSafe's marine solution solves these problems and more, making power usage around water safer than ever. By making it an IoT-enabled product, we've enhanced its safety by pairing it with dashboard tools that help conserve energy, detect leakage, and gain operational efficiencies. In addition to the extensive feature-set that our VoltSafe Marine shore power pedestal, marina dashboard, and companion app provide; future iterations will even be able to offer real-time views of each slip for both the boater and the marina manager via a pedestal camera to the dashboard or companion app, further enhancing your ability to protect your investment. Overall, VoltSafe Marine ultimately saves time and money for marina managers, giving peace of mind to boaters and marina operators alike.

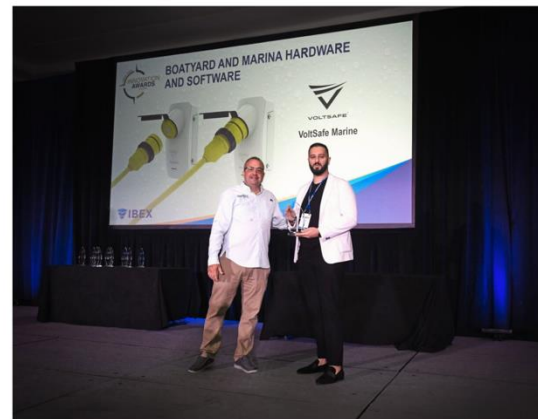
Who is the target market for VoltSafe?

Marina owners and operators are the core target for our IBEX Innovation award-winning marine solution. Our shore power pedestal and software management platform are future-proofing marinas. We're providing the safest, most dependable shore power pedestal and dashboard ever imagined. Our initial product was aimed at the boat side, however, by adapting to support the marina first, we can still support the boater via adapters and the companion app making it a win-win, and more lucrative for the business.

Who is currently using VoltSafe? What feedback have you received?

VoltSafe is currently live in select marinas, with more marinas being on-boarded for a wide-scale beta test prior to distribution of commercialized units coming soon.

We've been actively engaging with marinas for several months, listening to key pain points, and adapting our software solution to manage those concerns. There is plenty of excitement at the numerous marine industry trade shows we have been at all year long, primarily driven around the magnetic connection, the safety aspect, combined with its ability to minimize costs and save time and energy slip by slip. Frequent feedback includes comments such as Finally! or It's about time! or remarks around it offering game-changing innovation that will disrupt the industry. We've met with so many people and shared great conversations about how our award-winning shore power solution can put an end to countless issues and concerns over safety and efficiency for boaters and marinas. We've built more than just a shore power pedestal – we're future-proofing to deliver next-level safety, and an outstanding user experience when it comes to managing power at the docks.



7



DOMETIC

Dometic makes the components and parts that make boating better — for boaters as well as for the environment. For instance, the company is a leading provider of air conditioning, refrigeration, galley equipment, icemakers and other systems that are primary consumers of electricity on board. Dometic's titanium A/C condensers and variable-speed A/C compressors are key to making those types of products quieter and more efficient.

"Why it's important for customers is because, especially when you're out at sea, anything that's using energy is using fuels," says Justin Celauro, product and business manager. "With air conditioning, most customers need to run a generator. More and more are moving to batteries, but you want to get the longest life out of your batteries that you can. People want to get the most they can out of their air conditioning."

The variable-speed A/C compressor is a component that has been used in residential applications for quite a while, Celauro says. Dometic launched its version for marine applications in the United States earlier this year, with the global market planned for next year — after four or five years of figuring out how to do it. "The challenge is getting the technology to the size that we need," he says. "Marine is much smaller. And then, getting it to a price point that customers would be excited about. There's a premium to these — there's a lot of components and technology — but the compactness, the robustness for a marine environment, that's what customers get excited about."

With this technology, as the compressor slows down, it blows over heat exchangers that are oversized for the amount of refrigerant passing through them. "Let's say you have a 1-ton compressor paired with a 1-ton condenser and a 1-ton fan at half speed, you're at half a ton, but your system is more efficient air conditioning." — Justin Celauro, Dometic



Dometic is a leading supplier of air conditioning, refrigeration, icemakers and galley equipment (climate control panel pictured).

VOLTSAFE

VoltSafe Marine builds shore power pedestals with magnetic hardware connectors, eliminating the need for prongs and live, recessed metal contacts. "No company in the world has made shore power pedestals the way that we do," says chief marketing officer Terri Breker. "If a cord falls off into the water or somebody is near the outlet, you will never get electrocuted or get a shock. It is one of the most significant differences between our hardware and other pedestals."

VoltSafe brought this technology to the Consumer Electronics Show in 2023, and its representatives learned that marinas hadn't seen any significant innovations in shore power systems for quite some time. "They were having all these issues. We then came up with the shore power pedestals for the marina operators," Breker says. "Then we started attending every marina-focused trade show. We went to IBEX. We went to Metstrade. We've done preorders and are starting to accept orders now for delivery of pedestals in 2025."

The system comes with a software management platform that lets marina managers control power at slips, detect current leakage and receive alerts about safety concerns on the docks. It's available in a 30-amp setup, with a 50-amp on the near horizon, according to the company. "They can control their whole marina from a dashboard, and the boater has a companion app where they can see their own slip and get notifications when their power turns off or is disconnected," Breker says.

Boaters will need an adapter to use the shore power pedestals, but the marinas will have them, she adds. And automated billing is part of the system, so both the marina manager and the boater can see everything about energy usage with a better level of transparency and detail.

Creating a safer and more efficient way to plug into shore power isn't the kind of thing that most companies are innovating around, which makes VoltSafe a standout. "For over a century, we plugged in our toaster and coffeemaker in the same way. It's how we plugged into power," she says. "There have also been advancements at the other end of the cord. As we move to electrification of boats and all these things, we're looking at how to be more efficient with renewable resources we already have access to, and how to make it safer, and how to make it cool."

8



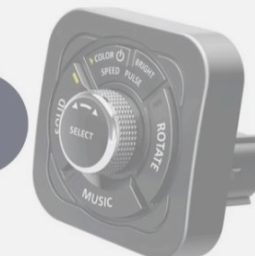
VoltSafe uses secure shore power pedestals, in-

MEDALLION INSTRUMENTATION SYSTEMS

Medallion is a company whose ruggedized electronics are used by boaters every day, even if they have no idea the brand has been around since 1957. "The reason you don't hear about us is that we don't sell branded products," says director and owner Jeff Sands. "We build directly for the OEMs to produce products under their brand name. It's Malibu, it's Sea Ray, it's Bennington — those are all customers of ours."

One of this year's notable products is the 360 Camera System, which will be on model year 2025 Malibu boats. It gives smaller-boat skippers an experience similar to what megayacht captains have at the helm. "Big yachts will have maybe six cameras so somebody high up at the helm can see how close they are to the dock," Sands says. "Ours is quite a lot more advanced, and it's made for production boats."

Sands says the challenge with innovating this type of technology for smaller boats is how much closer to the waterline the cameras are. "It becomes a much more difficult process for stitching the images together," he says. "If you're up high and looking down, you get a pretty good perspective."



Medallion manufactures direct to OEMs, so products are branded to companies that use them, Skeeter for example.

around you — but with our system, you can also get a perspective from a water view," he says. "When you're on a pontoon, you can't see below the deck line in front of you or to the side of you. It's driver awareness."

Being based in Michigan, near the automotive industry, means a lot of the company's engineers bring that type of expertise. It leads to products such as the 2025 Malibu Boats Command Center. "The last five years or so, you've been seeing more of that type of thing in automotive."



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MARINAS &
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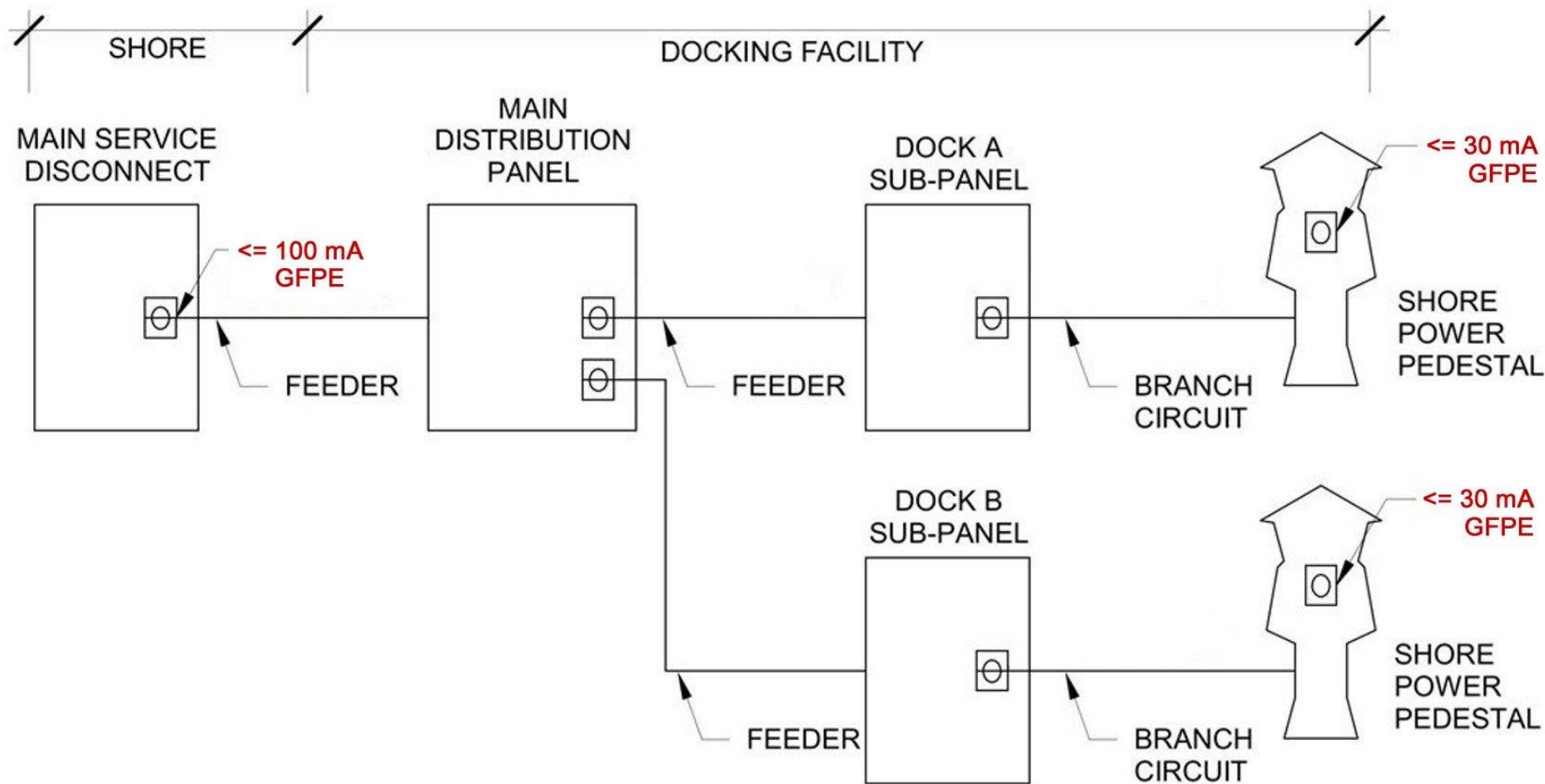


Diagram Courtesy of Gary Loftis