



FreeCharge

Early 2018

SMART INFRASTRUCTURE

Energizing public spaces while making communities safer, more sustainable and more resilient.

”We are making public spaces more engaging, safe and resilient by eliminating the need for costly grid connections to energize today’s modern infrastructure.”

- Doug Poffinbarger, AEE Fellow
Founder, FreeCharge





FreeCharge™

Table of Contents

2	A Word From Doug Poffinbarger, Founder
4	Energized & Engaged
5	Higher Education Impact
6	Government Impact
7	Commercial Impact
8	FreeCharge Analytics
9	Trees
11	Benches
13	Kiosks
15	Vehicle Charging
16	Custom Solutions
16	Contact Us

Energized & Engaged

- Too many bus stops, streets and public spaces are dark and unsafe.
- Too many colleges lack outdoor charging for students.
- Too many public venues are dull and unattractive.
- Too many parks and trails lack power and emergency notifications.

FreeCharge is changing all of that.

Project FreeCharge is a public / private initiative helping cities, colleges and other venues energize public spaces making communities smarter, safer and more engaging. 3fficient and its partners are developing and supplying brilliant autonomous urban furniture and infrastructure that is giving new found design flexibility for planners and architects, reducing infrastructure costs, providing new public services while enhancing public safety.

FreeCharge is reshaping how people view and interact with civic infrastructure.

FreeCharge was inspired by citizens who saw firsthand the effects of superstorms on public infrastructure, especially power. FreeCharge was inspired by commuters who want safe, well lit bus stops and open spaces in their communities - without unreliable and polluting grid power. FreeCharge was created by designers who are tired of ugly street furniture and the blight from lights, security cameras, sensors and all the conduit and power lines needed to power those devices. FreeCharge was created by planners and architects who envision a better way to do public infrastructure. FreeCharge was created by students and caring people who expect public services to be engaging and useful. FreeCharge was created by parents who want their children to be able to play in the neighborhood and nearby parks or use public transit without fear. FreeCharge was requested by urban dwellers who prefer to walk or use electric bikes and have a place to recharge along the way. FreeCharge was influenced by mayors and college presidents who want their communities to appeal to a mobile generation that is deeply committed to resolving climate change. FreeCharge was created by thinkers, doers and leaders. FreeCharge was created by everyone for everyone.

Higher Education

Colleges & Universities

Colleges and universities are working hard to reduce their carbon footprints. Unfortunately, most campuses struggle to illustrate their commitment to sustainability. Now, there is a way to directly showcase and engage students and faculty everyday while making campus open spaces safer and more secure.

FreeCharge provides beautiful, self-powered, smart urban furniture and infrastructure that can be dropped into virtually any open space providing an instant digital safety net that showcases and enhances a sustainable learning environment. With FreeCharge, students and educators can move about campus knowing that a quick recharge of their mobile devices or SOS “blue light” or quick directions or environmental research data or many other digital services is nearby. Best of all, the FreeCharge platform is always on and always available even during power outages when it’s needed most.

With FreeCharge, your commitment to climate action, student safety and a great learning environment will be well received.





Government Impact

Cities, Transit & Parks

US Mayors consistently cite the importance for their cities to be safe and engaging. Without it, businesses and employees go elsewhere, cities lose revenue and quickly become irrelevant. Even worse, budgets are cut, services decline, and infrastructure decays as the exodus begins.

FreeCharge provides self-powered digital infrastructure that can be dropped in anywhere - without grid dependence. With FreeCharge, citizens can safely stroll their neighborhoods knowing that a recharge or SOS connection is nearby. Many devices come with a variety of features and options such as smart lighting, noise sensors that can discern a backfire from a gunshot or laughter from a scream for help, alerts that activate integrated cameras or nearby cameras to provide safety officials local and immediate intel. Planners and engineers can access anonymous statistics to better understand environmental conditions at each networked FreeCharge location. Best of all, the FreeCharge platform is always on and always available even during power outages. Now even the remotest of bus stops or trails can be energized to provide ultra modern services for everyone.

With FreeCharge, your communities or city will be smarter, safer and more flexible. Transit agencies increase ridership. Street corners, city plazas, parks, trailheads, convention centers, bus stops and transit centers will be activated. In all, your community engagement will reach new heights.

Sports, Entertainment and Retail Venues

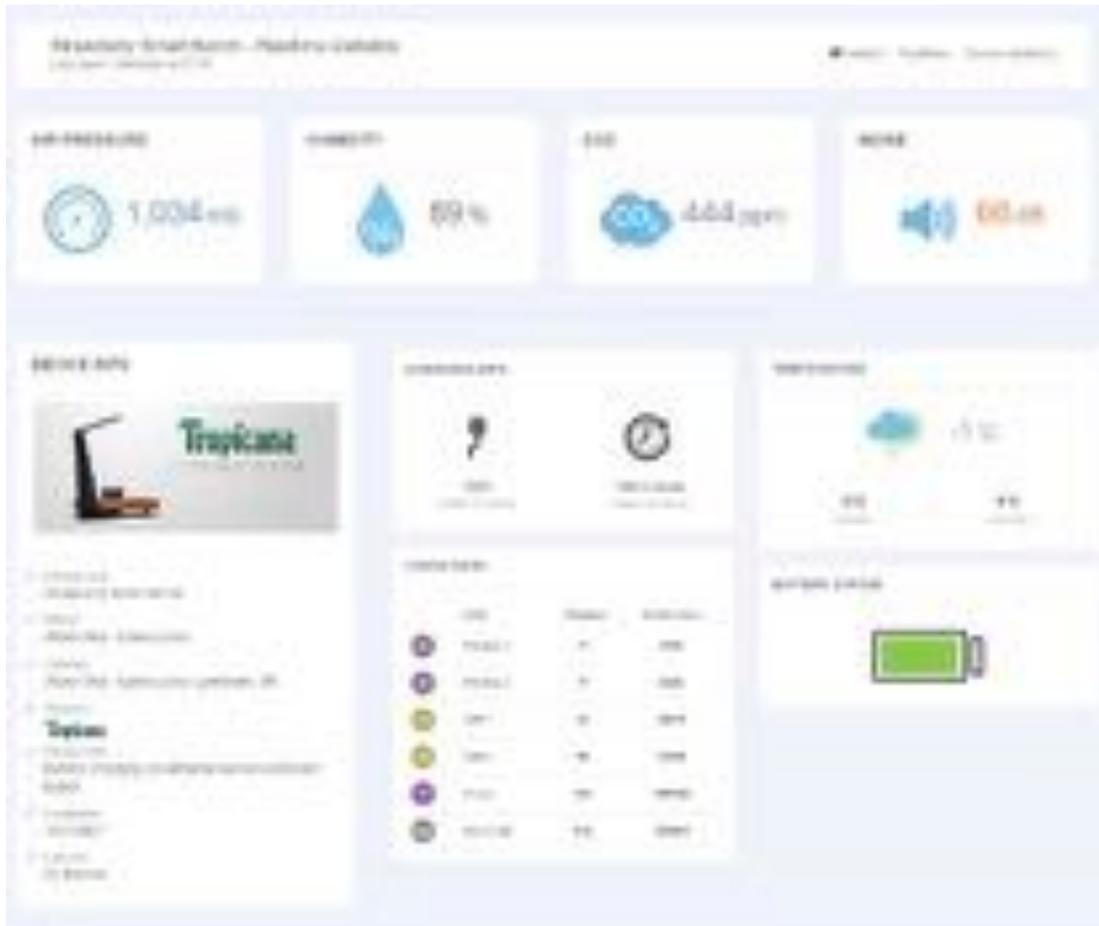
Sports, entertainment and retail venues are all about attracting and engaging visitors. FreeCharge provides self-powered digital infrastructure that can be dropped in anywhere - without trenching, extension cords or loud smelly generators. Visitors are free to charge up their mobile devices, get directions to nearby attractions or get recommendations on nearby venues.

With FreeCharge, a complete thematic experience is possible. Lighting, video and music can be dynamically broadcast to augment the sights and sounds of the venue or event.

With FreeCharge, customer service and public safety will reach new heights. For example, if parent and child are separated, they can go to the nearest FreeCharge station and push the SOS button to get reconnected with audio and video assistance. In the event of a more serious event, local authorities can be connected to assess the event with “eyes and ears” expanded across the FreeCharge network. Many devices come with a variety of features and options such as dynamic lighting, interactive media, WiFi and alerts that activate integrated cameras or nearby cameras to provide safety officials local and immediate info. Best of all, the FreeCharge platform is always on and always available even during power outages. Now, high traffic or more remote locations can be energized to provide ultra modern services for a truly immersive experience.



Smart Digital Platform



The FreeCharge platform generates useful device level data for integration with a variety of applications. For example:

- Consumers can get useful data about their local FreeCharge station and open charging outlets.
- Sponsors can measure the reach, frequency and impact of their advertisements.
- Public safety dispatchers and officials can communicate directly with SOS (911) device callers. Safety officials gain real-time information to support response to safety alerts.
- Authorized officials can orchestrate broadcast text, audio, video and lighting to improve crowd management.
- Researchers can analyze anonymized aggregate data for social and environmental research.

Trees

Strawberry Tree - Iconic

Features:

- 13 chargers: 4 USB, 5 cables, 4 wireless
- LED lighting
- Sensors: temp, humidity, air pressure, noise, CO2
- WiFi landing page
- Cloud-based dashboard
- Mobile Application
- Drop-in installation

Extras:

- Video surveillance
- WiFi Data Plan
- Color-flex lighting

Specifications:

- Bench seats 18 (14'x4')
- Canopy 12'x12'x14' high
- Battery storage 360,000 mAH

Warranty: 20yr solar panels / 2yr limited

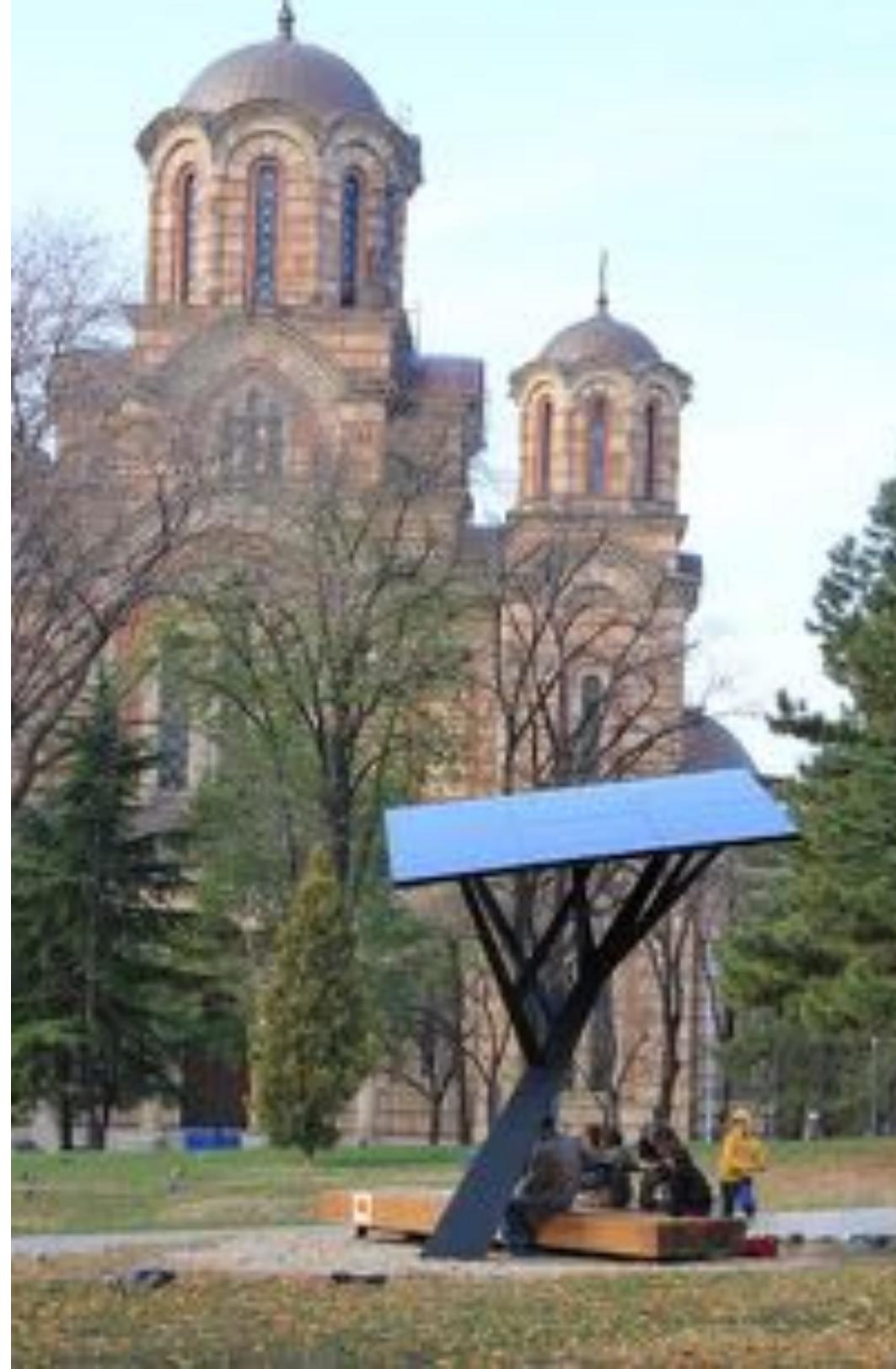
Price*: request quote

Lease†: \$740/mo

Sponsored: tbd



LEED Credits





Strawberry Tree

Features:

- 13 chargers: 4 USB, 5 cables, 4 wireless
- LED lighting
- Sensors: temp, humidity, air pressure, noise, CO2
- WiFi landing page
- Cloud-based dashboard
- Mobile Application
- Drop-in installation

Extras:

- Video surveillance
- WiFi Data Plan
- Color-flex lighting
- Custom branding

Specifications:

- bench seats 18 (14'x3.5')
- canopy 8'x8'x13' high
- battery storage 360,000 mAh

Warranty: 20yr solar panels / 2yr limited

Price*: request quote

Lease†: \$686/mo

Sponsored: tbd



LEED Credits

Benches

Strawberry Bench

Features:

- 6 chargers: 2 USB, 2 cables, 2 wireless
- Sensors: temp, humidity, air pressure, noise, CO2
- bolt down or adjustable feet

Extras:

- SOS intercom
- touchless payments / donations
- WiFi (may require data plan)
- Custom branding

Specifications:

- bench seats 3 (7'x2.5')
- canopy shade height 9'
- battery storage 54,000 mAH

Warranty: 20 yr solar panels / 2yr limited

Price*: request quote

Lease†: \$322/mo

Sponsored: tbd



LEED Credits





Primo EnergiPlant

Features:

- Solar and Wind powered
- 6 chargers: USB
- LED lighting
- fully ballasted (bolt-down ready)

Extras:

- wireless charging
- video surveillance with remote or local storage
- WiFi (may require data plan)
- Color-flex lighting
- Sensors: temp, humidity, air pressure, noise, CO2
- SOS Intercom
- Custom branding

Specifications:

- bench seats 9-12 people (11' diameter footprint)
- plant / turbine height 18'
- battery storage 120,000 mAH

Warranty: 20yr solar panels / 2yr limited

Price*: request quote

Lease†: \$322/mo

Sponsored: tbd



LEED Credits

Genesys Portable

Features:

- 27 Chargers: (9) 3-in-1 USB cables in each locker
- charges android, iPhone and other devices.
- Keyed lockers
- Branded large touch screen display with
- Stereo speakers
- HDMI, SD/TF Card slot, USBx2, RJ45x1,
- WiFi 802.11 B/G/N interface

Extras:

- Numeric keypad locks
- Customer branding or programming

Specifications:

- Overall dimensions 250"x228"x709" high
- Requires 110v or 220v power
- Portable on wheels
- Apple Lightning, MicroUSB and USB-C charging.
- 42" LG touchscreen display
- Speakers 2 x 10w each

Warranty: 1yr limited

Price*: \$2,100

Rental††: \$400/wk





Coming Soon

Genesys Metro

Features:

- 6 Chargers: USB & wireless
- temperature sensor
- humidity sensor
- CO2 sensor
- noise sensor
- SOS Intercom
- programmable color-flex LED lighting
- touch screen display

Extras:

- public WiFi, wireless subscription
- music speakers
- next bus e-ink display
- various sensors

Specifications:

- dimensions 4'x6"x10' high
- battery storage ~200,000 mAH
- bolt down to concrete pad

Warranty: 2yr limited

Price*: request quote

Lease†: \$361/mo

Sponsored: tbd



LEED Credits

Power Post Retractable

Features:

- Level 1 or level 2 - (only needs 20A supply circuit)
- Retractable cord reel
- Up to 14 ft. of EVSE Cable
- LED status indicators
- Mechanical lockout

Extras:

- Temperature, humidity, CO2, noise, other sensors
- Intercom / SOS
- LED lighting
- Digital faub or smart app access
- Energy and use monitoring

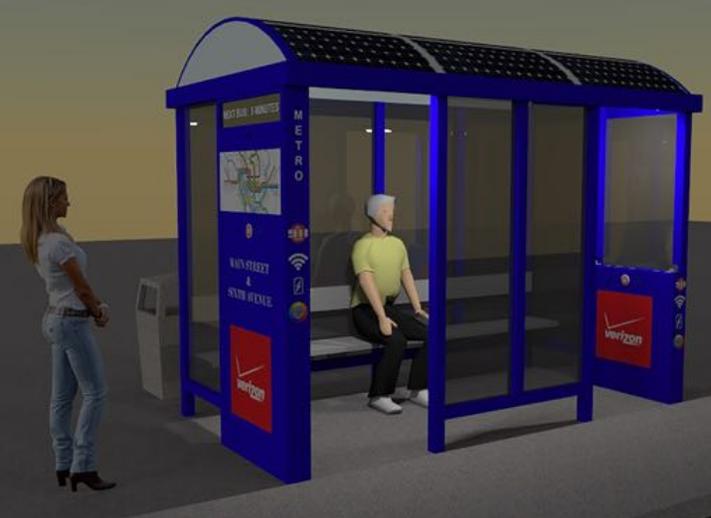
Specifications:

- Dimensions 9”x6”x5’ high
- Bolt down or wall mount (half height)
- SAE J1772 Compliant (works on most PEVs, Tesla adapter available)
- UL 2594 Certified for EVSE
- NEMA 3R enclosure, waterproof and sparkproof
- 120 VAC/16 Amps or 208-240 VAC/14 Amps

Warranty: 1yr limited

Price*: \$1,495 - \$1,795 + s&h.





Custom Solutions

FreeCharge engineers and designers have various patents and designs underway. This illustrates a few of our custom designs for public agencies around the world.



Contact Us

The FreeCharge movement is accelerating. For more up to date information visit freecharge.us

To discuss turnkey deployments, custom designs or financing, contact:

3fficient

phone: 888.533.3487

Fax: 888.533.3487

email: sales@3fficient.com

web: www.3fficient.com



*Prices and availability are subject to change without notice.

†Lease terms depend on various factors, including location, credit rating, residual value, etc.

††Rental Fee is minimum of 1 week, s&h and programming fees may apply. Any repairs upon return are extra.

Energizing public spaces while making communities
safer, more sustainable and more resilient.

FreeCharge.us