

How to Leverage Federal Investment in EV Charging Infrastructure for Your Community

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Today you will learn...

- What sustainable EV charging is, and why it's so important
- What energy resiliency has to do with EV charging
- EV ARC™ system for EV charging, emergency preparedness and energy resiliency
- Latest on Federal funding for 500,000 new EV charging sites
- Available and upcoming funding programs
- How to navigate the funding process
- Best practices for winning applicants



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Amanda Wood

**Senior Government
Affairs Consultant**



Based in Washington, DC
Former US Senate Legislative Director
Expert in Federal Funding Streams

BEAM

Desmond Wheatley

CEO



World Expert in Sustainable EV Charging
Founder of 4 successful startups
Beam NASDAQ listing 2019

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Get the EV Charger of Your Choice, Deployed in Minutes not Months



No Permitting



No Construction

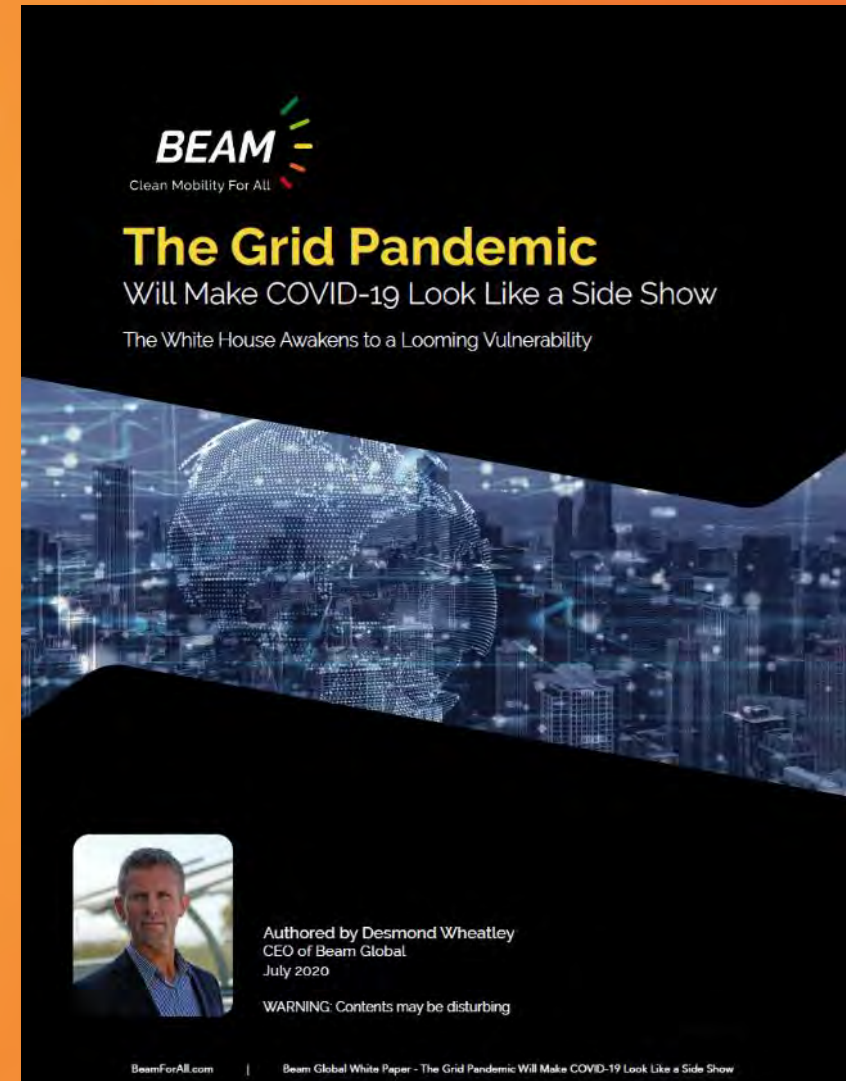


No Electrical Work



No Utility Bill

The EV charging infrastructure buildout that's about to take place must have 25% of chargers off-grid with locally generated and locally stored energy.



BEAM
Clean Mobility For All

The Grid Pandemic

Will Make COVID-19 Look Like a Side Show
The White House Awakens to a Looming Vulnerability

Author photo: Desmond Wheatley

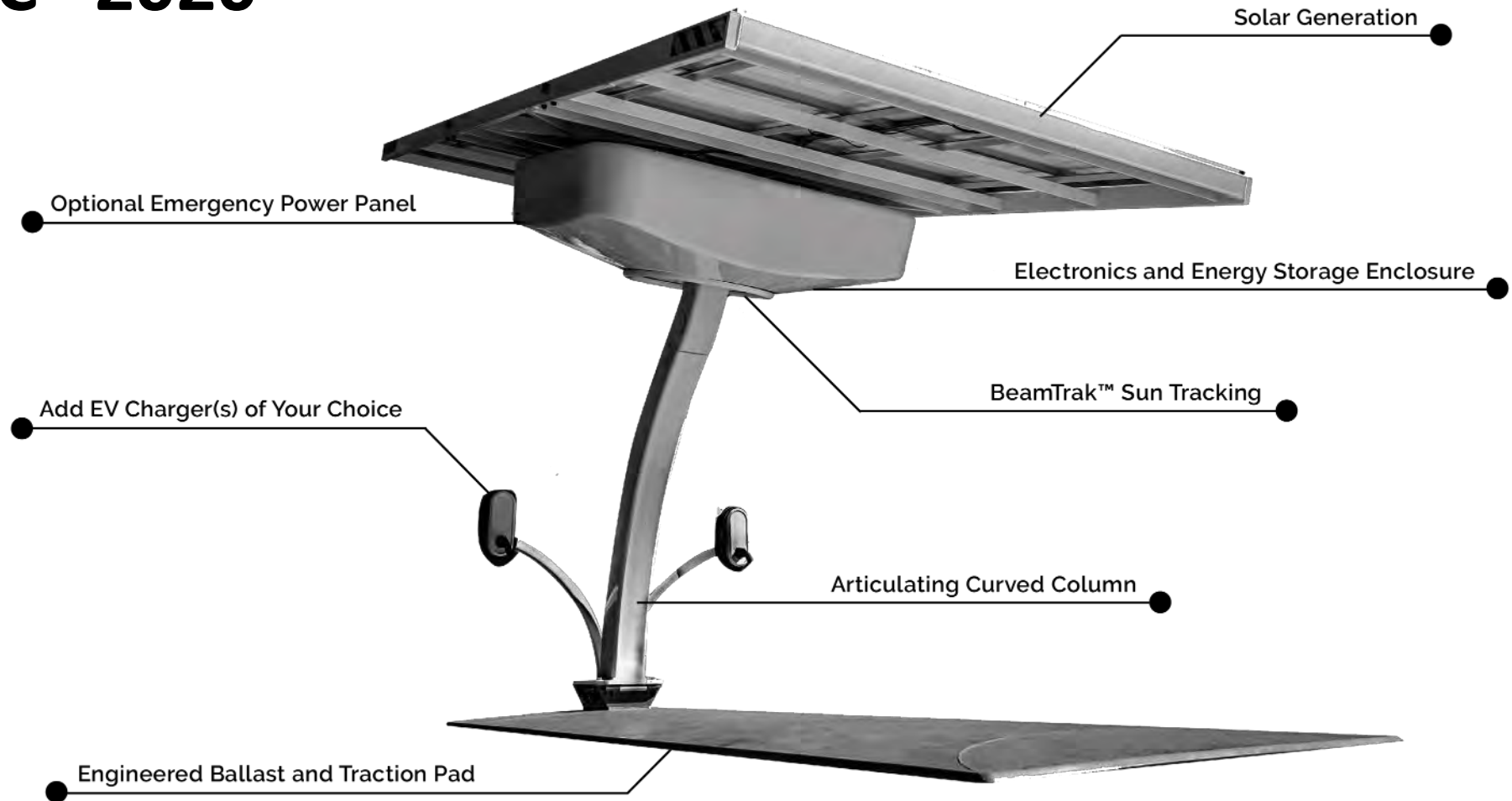
Authored by Desmond Wheatley
CEO of Beam Global
July 2020

WARNING: Contents may be disturbing

BeamForAll.com | Beam Global White Paper - The Grid Pandemic Will Make COVID-19 Look Like a Side Show



EV ARC™ 2020



EV ARC™ Video

Installing Grid-Tied EV Charging Includes

- Engineering
- Construction
- Trenching
- Foundation
- Permitting
- Electrical circuit work
- Project management
- Transformer / switchgear upgrades
- Utility metering / monthly bills
- Utility interconnect agreements
- Demand charges
- Carbon Footprint



EV ARC™ 2020

Rapid Deployment

No Permitting, No Construction, No Utility Bill

- Fastest and easiest to deploy solution on the market
- The EV charger brand and service of your choice
- Deploys in minutes, zero-contact delivery
- Avoided costs = Lowest total cost of ownership (TCO)
- Transportable
- Off-grid EV charging and emergency power
- Highly visible sustainability initiative
- Drive on Sunshine



EV ARC™ 2020

Fits in a Standard Parking Spot

- Maintain full parking capacity
- Cars park on the base pad
- ADA compliant
- Reach as many as 12 parking spaces
- Charge up to 6 vehicles at the same time



EV ARC™ 2020

Transportability = Flexibility

Drop and charge. Can be moved any time.

- Permanent yet transportable
- Scalable
- Can be moved short distances with a forklift
- Can be moved longer distances with the ARC Mobility™ Trailer, truck or in a 20 ft. container
- Ideal for leased or owned properties



EV ARC™ 2020

Off-Grid Emergency Power

Energy when and where you need...

- Charge during blackouts, utility outages, weather events
- Relocate to high risk locations, hospitals, shelters...
- Wind-rated up to 125mph
- Flood-proof up to 9.5 feet
- Working asset during prosperity and emergencies
- Integrated emergency power panel



Emergency Preparedness for First Responders

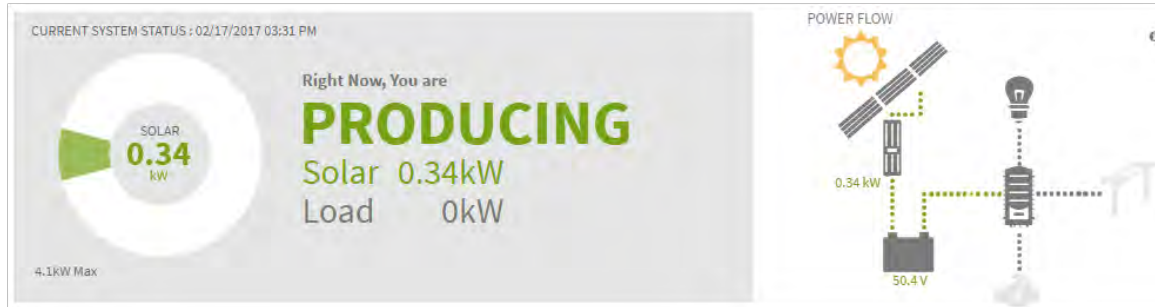
EV charger becomes a lifesaver

- Generators sit idle in storage most of the time
- Renewable power: No refueling
- Clean power: No toxic emissions
- Quiet power: No disruption for medical staff or patients
- Safe power: No volatile fuel to transport or store
- Included in FEMA's Authorized Equipment List (AEL)*

** Beam Global EV ARC™ solar-powered charging stations are included in the FEMA Authorized Equipment List, under designation 10BC-00-SOLR Chargers.*



Real Time Data & Reporting



Standard Reporting

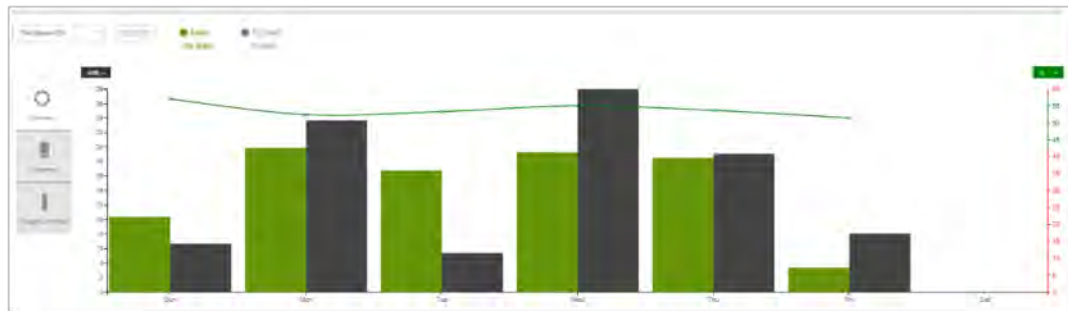
Wireless connectivity transmits real time data for reporting on:

- State of batteries
- State of PV charging
- Rate and amount of energy delivery
- Time and duration of EV charging (approx.)
- Carbon offset

Optional Reporting

Wireless connectivity transmits real time data for reporting on:

- Time and duration of EV charging (exact)
- Time of charge
- Kilowatt hours (kWh) delivered
- Optional billing / access control
- Drive identification



EV ARC™ 2020

Sustainable EV Charging | Energy Resiliency | Emergency Preparedness

How to Leverage Federal Investment in EV Charging Infrastructure for Your Community

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YOU HAVE OPTIONS



NEW funds that will become available through rollout of the Infrastructure Investment and Jobs Act



RECURRING annual funding streams



EXTRAORDINARY funds that you can spend right away

In a typical year there are
over **1,000** federal grant programs
through **26 federal agencies**
providing more than **\$400 billion** to public agencies.

This is Not a Typical Year...

\$6.2 Trillion of Bonus Federal Spending in Just 24 Months

\$2.2 TRILLION

CARES Act in April
2020

\$900 BILLION

CRRSA in
December 2020

\$1.9 TRILLION

American Rescue
Plan Act in April
2021

\$1.2 TRILLION

Infrastructure
Investment &
Jobs Act in
November 2021

American Recovery and Reinvestment Act of 2009 was a \$787 billion package

Bipartisan Infrastructure Bill

Marks the shift in federal strategy from flexible resources to the hardest hit... to focused investment for infrastructure, clean energy, connectivity, and job creation

- **Broadband Internet:** \$65 billion in high-speed internet to ensure that every household can access reliable broadband service
- **Electric Vehicles:** \$7.5 billion to build a nationwide network of charging stations
- **Public Transit:** \$39 billion to modernize transit and improve accessibility
- **Airports, Waterways:** \$25 billion for airport repairs and efforts to reduce congestion and emissions. It would also invest \$17 billion in port infrastructure
- **Transportation Safety:** The plan would spend \$11 billion on transportation safety, including programs to reduce crashes and fatalities

WHAT IS DC THINKING?

- Improving resilience against extreme weather
- Preparing for EV/decarbonization
- Equity
- Expanding the definition of “essential infrastructure”

Using Federal investments in public spending to stimulate the economy, build and rebuild infrastructure and innovate.

EV Charging in the Infrastructure IAW

- \$7.5 billion over five years for grants for electric vehicle charging stations and alternative fuel infrastructure.
- Anticipate \$2.5 billion in competitive funding to install alternative fuel stations and infrastructure in publicly accessible locations, including parking facilities at public buildings, public schools, and public parks
- Priority consideration for rural areas, low- and moderate-income neighborhoods, and communities with a low ratio of private parking to households or a high ratio of multiunit dwellings to single-family homes.
- Federal government will cover up to 80% of project cost.





FEMA Preparedness Grant

Urban Area Security Initiative

- FEMA designated based on threat analysis
- Regions that have an acute preparedness and response need

State Homeland Security Grant Program

- 80% of funds must pass down from states to local governments

Funds can only be spent for items on FEMA's Authorized Equipment List

- ...which includes EV ARCs



Community Development Block Grant

- For deployment of EV ARCs in public, underserved areas of your community
- CDBG funds may be used for a number of local programs which include Activities relating to energy conservation and renewable energy resources
- Likely administered by your economic development department



American Rescue Plan Act

- **\$130 billion** in direct allocations to cities and counties
- 50% transferred last spring, with the second half arriving this year
- Federal commitment to making you whole – and more!



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Successful Applicants for Federal Funding

- Have a use case that aligns with federal funding streams
- Show a local commitment to this effort
- Using the tools we provide, are prepared to be your own best advocate
- Gain the support of local government and non-government partners
- When needed, compile data to support the request
- Demonstrate a history of solid stewardship of grant funding
- Leverage DC-based elected officials to advance the funding application



We are here to help

- Identify high viability grant opportunities for you
- Reprogram prior year funding that has not been expended
- Provide draft narratives and budget justifications for your applications
- Edit your application based on knowledge of the grant-making agency's priorities
- Put you face-to-face with decision makers within funding agencies
- Engage your Congressional delegations for political support
- Help you to expedite drawdown of awarded funds



CUSTOMIZED FUNDING PROFILE

prepared for

**Fleet Department,
City of Houston, Texas**



Qualified Federal Funding Opportunities for
Sustainable EV Charging & Energy Resiliency

May 2022



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GET STARTED

WHAT

Report customized for your organization, situation and need of funding for which you qualify.

WHO

For local, state and federal government organizations, Tribal governments, transit authorities and ports that are building sustainable EV charging infrastructure.

HOW

Free assessment with our experts and you will receive a report of what Federal funding you qualify for.

**Schedule with your Beam Clean Mobility Expert
or by emailing BeamTeam@BeamForAll.com**



Q&A

Get Started

BeamTeam@BeamForAll.com

858-799-4583



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EV ARC™ 2020



<https://vimeo.com/487335252>

ARC Mobility™ Trailer Deploys in Minutes



<https://vimeo.com/466705736>