

# ELECTRIC VEHICLE NETWORKS

Driving innovative transportation solutions for the Department of Defense (DoD)

**Michael Baker**

**I N T E R N A T I O N A L**



2023 ENR RANKING — TOP 500 DESIGN FIRMS

#31

TRANSPORTATION PRACTICE EMPLOYEES

720+

OFFICE LOCATIONS

85+

GRANT FUNDING SECURED FOR OUR CLIENTS

\$300M+

*We Make a Difference*



HELPING OUR CLIENTS DEFINE AND ADDRESS THEIR ELECTRIC VEHICLE (EV) NETWORK NEEDS.

AS A TRUSTED PARTNER TO DOD COMMUNITIES, WE PROVIDE NATIONAL, AGILE AND MULTIDISCIPLINARY EXPERTISE TO HARNESS OPPORTUNITIES.



CELEBRATING 80+ YEARS OF ICONIC PROJECTS.



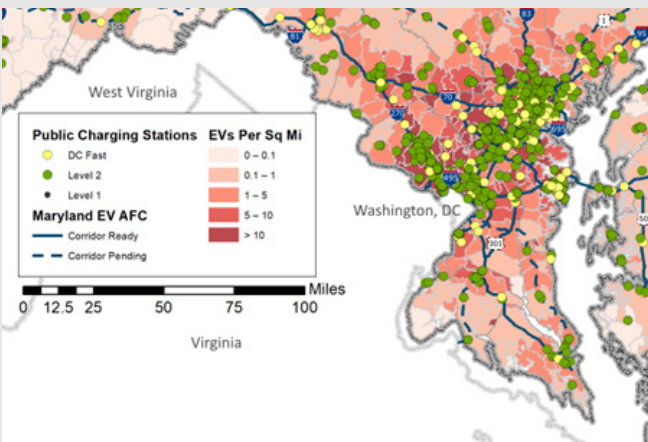


## Emerging Technology Program Management

Michael Baker provided program management support for the City of Columbus' Smart Columbus portfolio. Technical duties included development of system engineering documents for all projects and review of preliminary and final design development of several projects involving smart mobility hubs, a multimodal trip planning application and connected electric automated vehicles. The team oversaw the plan for electric vehicle charging deployments at several smart mobility hubs and managed the first two automated shuttle deployments in Ohio.

## Electric Vehicle Charging at Multiple Air Force Bases

Michael Baker is supporting the Air Force with a NEPA Programmatic Environmental Assessment for the Air Force Electric Vehicle Charging Facility (EVCF) Program to facilitate implementation of EV charging stations and necessary infrastructure. This will expand EV usage, minimize carbon emissions and help meet White House and Executive Order goals for EV usage, tackling the climate crisis and catalyzing clean energy industries. Michael Baker developed EVCF concepts across multiple Air Force bases.



## Zero Emission Vehicle (ZEV) Support

Michael Baker provided crucial support to the Maryland Department of Transportation's (MDOT's) ongoing ZEV and infrastructure activities, which support Maryland's Greenhouse Gas Reduction Act's requirements and greenhouse gas reduction goal of 25% by 2020 and 40% by 2030. Michael Baker's ongoing planning efforts enabled MDOT to meet their transportation-related reduction targets and support ZEV and infrastructure deployment goals by identifying strategies that increase ZEV adoption and infrastructure deployment, providing policy research and performing analyses.

# CAPABILITIES

## Planning

- Environmental Planning & Permitting
- EV Infrastructure Readiness Assessments
- Greenhouse Gas/Air Quality/Carbon Analysis
- Infrastructure Master Planning
- Installation Energy Plans
- Installation Fleet Master Planning
- National Environmental Policy Act Compliance
- Policy & Legislation
- Roadmaps & Strategic Investment Plans
- System Integration
- Vehicle Fleet Assessment

## Funding & Implementation Strategies

- Charging as a Service (CaaS)
- Economic Analysis & Funding
- Grant Writing & Analysis
- Phased Integration
- Privatization Strategy Support

## Design & Construction

- Bidirectional Power Planning
- Comprehensive Vehicle Electrification Solutions
- Cybersecurity
- Data Integration & Dashboarding
- Electric Vehicle Support Equipment
- EV ADA Parking
- Installation Support
- Multimodal Design & Support
- Non-Tactical Vehicle Charging Networks
- Performance Evaluation
- Procurement Assistance
- Program Management
- System Design
- Utility Coordination

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## CONTACT

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**Michael Baker**  
INTERNATIONAL

**FROM PLANNING THROUGH PROJECT IMPLEMENTATION, OUR EXPERIENCED SPECIALISTS STAND READY TO LEVERAGE BEST INDUSTRY PRACTICES IN SUPPORT OF THE DOD'S ZERO EMISSIONS VEHICLE GOALS.**

