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Proven Leaders in Turnkey Energy Management Solutions & Decarbonization as a Service (DaaS)

NECEC/AEG Northeast Clean Transportation Summit

Charlie dePuthod : Founder / Chief Executive Officer
Matthew Kavanagh : Chief Operating Officer
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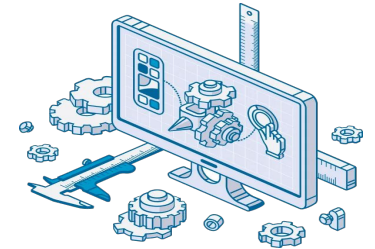
Turnkey Energy Solutions

EVSE, Lighting, Mechanical Systems,
Inverters & Batteries, Renewables,
Microgrids, DERs



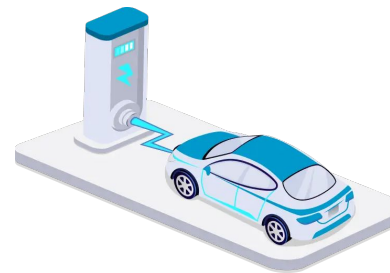
Engineering Services

Facility Audits, Incentive & Rebate
Management, Energy Modeling, M&V



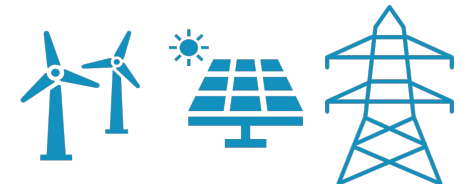
Service & Maintenance

EVSE, Inverters, Software Renewals,
LCFS Credits



Decarbonization as a Service (DaaS)

National and corporate
comprehensive infrastructure
decarbonization roadmaps (multi
decade, networked, supply chains)



Trade ally and market partner with 30+ utilities nationwide

Fleet Electrification Market Problem



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Problem: The US freight industry is facing increasing operating costs for diesel trucks and regulatory pressure to decarbonize. Carbon emissions are increasing the global temperature creating a sense of urgency to shift technologies.

Early-stage electrification plans and proposed market solutions for essential and heavily trafficked domestic freight corridors and the interstate system have not been optimized around five important factors or a nation-wide templated solution.

These factors must be addressed to enable widespread market adoption of electric medium-duty and heavy-duty trucks and investment in the tractors:

- Total cost of infrastructure
- Industry reliability requirements
- Current regulations that specify truck driver dwell requirements
- Permitting and interconnection timelines
- Disaster resilience, including recovery time and national security

Proposed Market Solution



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Build a Coalition for design of a Nation-Wide Network of Truck Depot Microgrids

- Replicable, scalable, modular, grid-connected, featuring multi-port charging stations, integrated carport/ground solar PV distributed generation, and energy storage systems

Challenges to solve:

- Account for regulations governing required driver dwell time
- Maximize reliability and profitability of freight charging requirements
- Optimize the total federal and private cost of infrastructure
- Minimize the number of locations and the complexity of permits and utility interconnections
- Minimize critical transportation network downtime due to disasters and enhanced national security

Stakeholders:

- Corporate, consortiums, utilities, associations, academia, government agencies, capital investor options, fleets and existing ventures

INF's Role

- INF is a leading installer and support contractor of decarbonization specialties including supply chain and construction logistics. Seeks to program manage solution development using our deep knowledge of the freight industry's real-world problems and our energy solutions expertise to identify technical partners, system requirements, anchor investors, public support requirements and private joint venture opportunities

Benefits/Consequences of this Issue



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Consequences of Not Aligning Nationally

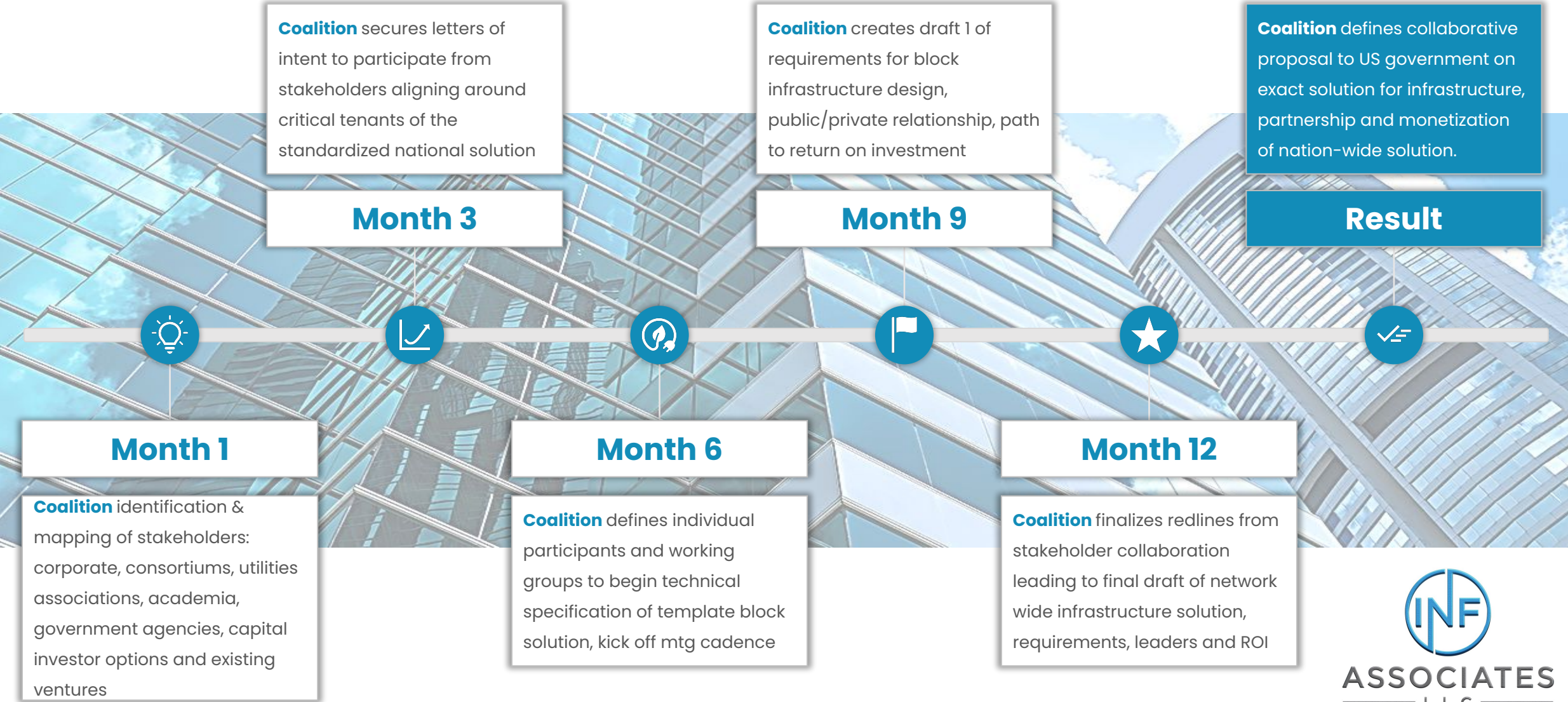
- Global temperatures continue to increase due to human-induced greenhouse gas emissions partially due to disproportionate contribution from MHD trucking in the US
- Fragmented marketplace and competitive solutions leading to a) excess total capital to decarbonize this sector b) overbuilding critical infrastructure c) misalignment of private interests d) significant grid impacts/stressors and e) non standardization of equipment
- This hard to decarbonize sector gets pushed down in priority with a delayed timeline for decarbonization extending to an unknown timeframe

Current Focus

- Form working coalition by identification & mapping of stakeholders: corporate, consortiums, utilities associations, fleets, academia, government agencies, capital investor options and existing ventures
- Within 12 months, align interests from stakeholder collaboration leading to final draft of network wide infrastructure solution, requirements, leaders and ROI
- Define collaborative proposal to US government on exact solution for infrastructure, partnership and monetization of nation-wide solution

Regarding fleet electrification, a critical obstacle to collectively overcome in 12 months is a lack of a nation-wide integrated freight strategy across the public and private sector that deploys a viable solution to medium/heavy duty transportation decarbonization.

Coalition Building Timeline



Thank you!



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Charlie dePuthod – President/CEO
charlie@infassociates.com

Matt Kavanagh – COO
mkavanagh@infassociates.com



PARASOL
STRUCTURES

Parosol EV Truckport Concept