



AAM

Electrification Readiness, Infrastructure Planning & Operational Feasibility

The Challenge

As **Advanced Air Mobility (AAM)** technologies move closer to commercial deployment, airports, communities, utilities, and aviation partners, need practical ways to evaluate where vertiports and drone ports can be located, how they will be powered, and what infrastructure investments are required to support operations.

Current planning efforts often assess aviation, energy, regulatory, and community factors independently. AAM-Electrification brings them together.



What We're Building

This project is developing practical planning tools and readiness assessments to help stakeholders evaluate, prioritize, and prepare sites for Advanced Air Mobility deployment.

AAM is creating a comprehensive framework for evaluating the feasibility, readiness, and operational requirements of future vertiports and drone ports.

Expected outcomes

- ✓ Identify viable locations
- ✓ Understand infrastructure & grid requirements before deployment
- ✓ Reduce planning uncertainty & project risk
- ✓ Evaluate operational & market readiness
- ✓ Support community engagement & regulatory processes
- ✓ Create actionable pathways for future AAM deployment

Key Focus Areas

- **Site Readiness Assessment**
 - Evaluating locations based on grid capacity, land use, site geometry, and operational requirements.
- **Infrastructure Planning**
 - Identifying the energy and charging needs required to support future AAM operations.
- **Demand & Operations Analysis**
 - Assessing realistic operational demand and infrastructure utilization scenarios.
- **Community & Regulatory Readiness**
 - Incorporating public acceptance, stakeholder engagement, and regulatory considerations into planning decisions.
- **Decision-Support Tools**
 - Developing readiness maps and planning resources that help organizations prioritize investments and deployment strategies.



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with our research
teams!***

Help Shape the Future of Electrification

Seeking Engagement

Aviation & AAM Industry Partners

- Infrastructure requirements
- Fleet operations and charging needs
- Deployment challenges and priorities
- Market readiness considerations

Airports & Transportation Agencies

- Site planning opportunities
- Operational constraints
- Infrastructure investment priorities
- Long-term mobility strategies

Utilities & Energy Providers

- Grid capacity considerations
- Electrification planning needs
- Energy resilience requirements
- Charging infrastructure integration

Community & Regulatory Stakeholders

- Public acceptance considerations
- Permitting and regulatory requirements
- Community engagement strategies
- Policy and planning needs