

# Athens - Greece

## Optimal Planning of Locations of e-Charging Infrastructure for the Athens Electric Bus Network



**Code:** AT-UC02

**Brief:** Data-driven optimisation of Athens' electric bus charging network, including charger placement and grid capacity planning.



### Key Urban Challenges Addressed:

- **Expanding charging infrastructure** for the growing e-bus fleet.
- **Optimising charger mix and depot placement.**
- **Infrastructure upgrades of bus depots** before the installation of 63 new chargers.
- **High installation and maintenance costs.**

### Goals & Anticipated Benefits:

- **Deploy and validate citywide e-bus charging network.**
- **Ensure scalability for expanding electric bus fleet.**
- **Avoid charging-related service interruptions.**
- **Improve charging reliability and reduce energy costs.**

### Ownership:

- **NTUA** develops planning models (digital infrastructure)
- **OASA** has acquired the funding for the physical infrastructure
- **Anaplassis** will provide data and field-knowledge

### Infrastructure:

- **Deployment of charging infrastructure** in key bus depots.
- **120 double chargers** in operation across five depots (**50 installed in early 2026**).
- **Grid upgrades and depot reorganisation** required.
- **Charging Station Location Problem (EB-CSLP) optimisation tools** use OASA operational data.

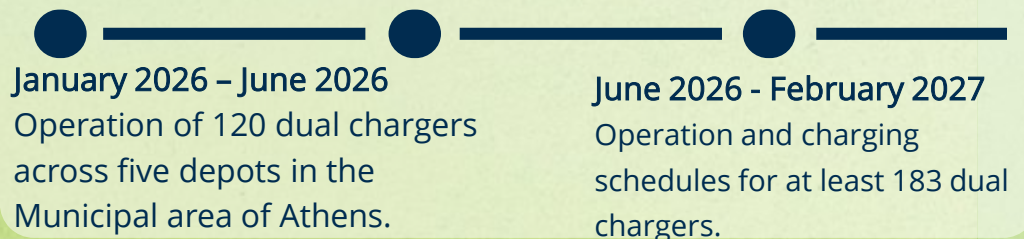
### Location:

The focus in the Athens Municipality area of control, while some bus line and respective services may expand in the wider Athens Metropolitan area. Bus depots that are also central in this Use Case and they expand in the wider Athens Metropolitan area (despite the fact that the actual electric buses may only serve the Athens Municipality area).

### Timeline:

June 2026 – February 2027

Installation of 63 additional dual chargers.



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