

# Alternative fuels

Artelia Cal Y Mayor is a leading expert in alternative fuels for mobility engineering, project management, construction management and facility management.



## OUR EXPERTS



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## OUR SERVICES

### CONSULTING

Based on worldwide Artelia experience, our team provides great solutions to respond to the fast-changing conditions of alternative fuels market. Based on evaluation of market and client profile, we can develop :

- Business development strategy
- Procurement strategy
- Audit plan
- Training and certification program

### DESIGN & PERMITS

Artelia has proven in-house expertise in design of attractive, comfortable, fit for purpose and safe EV and H2 charging stations. Our design team includes layout and electrical designers with BIM capability, as well as HSSE and electrical SMEs available for support. In-house and external permitting consultants have an experience in relative negotiation with authorities.

### CONSTRUCTION & PROJECT MANAGEMENT

Artelia has proven in-house expertise in installation and commissioning over 1500 electrical and over 60 hydrogen chargers for different clients all over the world.

### ASSET & FACILITY MANAGEMENT

Our facility management experts capable to offer FFP maintenance strategy in line with HSSE, TCO principles. As well as deliver full scope of maintenance based on equipment requirements and balanced SLA matrix.





## ARTELIA Inergy

InnovationEnergyMobility

Through Artelia's network of offices, our experts are the local partners of our clients offering customised solutions capitalizing on the knowledge, methods and on-site experience of our international teams.

Our Artelia Inergy teams meet regularly to share best practices and innovations. They receive training through the Artelia Academy training program.

### HYDROGEN

- Artelia delivered hydrogen refilling station programs for Shell in UK and Germany including 12 sites.
- Artelia provided several services for H2 Mobility Deutchlans, such as : consulting, planning and layout, project management and permitting.
- Feasibility study for hydrogen infrastructure of Deutsche Bahn, which includes : project preparation and customer support for train hydrogen infrastructure, preliminary design for 2 sites, technical and tender documentation for hydrogen filling stations.
- Shell and Volvo hydrogen filling station project for small and heavy (mining) trucks.
- Hydrogen loading facility project for Air Liquide, which includes : layout design, permitting and costs evaluation.

### ELECTRICAL VEHICLES CHARGERS

#### SHELL UK EVC PROGRAM

SHELL UK one of the world leaders in terms of development of EVC infrastructure, with over 40,000 new electric vehicles on the road every month. Artelia support Shell with full range of services, such as project, program and cost management. Site portfolio is very wide and includes traditional and ultra-fast chargers, chargers with solar canopies and Shell UK flag ship site with 175 kW chargers and sustainable wooden canopy.

#### ENEL X CHARGING STATIONS-ITALY

Enel is committed to the « e-mobility revolution » and installed around 7,000 charging points for electric vehicles from 2018 until 2021 throughout Italy. ENEL entrusts Artelia for project management, engineering services, site and safety supervision of 500 fast charging car stations on motorway network and the design of a prototype recharging station. Artelia was also in charge of designing and installing 300 fast charging car stations in Sicily.

#### VOLKSWAGEN E-MOBILITY ID AND E-TRON PROJECT-SPAIN

Artelia deployed the installation of chargers for electrical vehicles in VW group Spain (Audi, VW, Skoda and LCV VW), adapted the charge and repaired the needs of new and existing dealers. Artelia manages « eMobility project » associated to brands (strategy, hardware and IT definition, technical support). The infrastructure comprises 322 installations.

#### TOTAL EVC – FRANCE

Since 1996, Artelia has been ensuring a program management for 25,000 sites and projects in France including EVC chargers and solar panels. In 2020, Total marketing France has entrusted Artelia with the survey, permitting, construction and project management for the deployment of 300 EVC installations in its network of service stations.

#### BAKKEDRAGET EVC – DENMARK

Danica Ejendomme is building 248 EV charging stations for the residents of Bakkedraget in Tuborg Havn. The buildings available excess power will be used to charge the EVs. The distribution of power will be up to 3x 840 A (3x 400 V) to the 248 charging stations through a dynamic load management system (LMS). The individual charging capacity is up to 22 kW (AC, EV type 2 connector). The charging stations are supplied directly from a canalis busbar trunking system. The stations are placed on elevating and sliding parking platforms. The payment system, administrated by Meshcraft, is communicating via the LMS.



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