GeoPura®

CADILLAC

Sustainable Power Now

SECTORS: Events, EV Charging

GM Cadillac Case Study

Cadillac-sur-Garonne



GeoPura recently supported the launch of the new Cadillac Lyriq in France, with our zero-emission EV charging solution. Blending history with innovation, the all-electric Cadillac LYRIQ was unveiled in the town of Cadillac-sur-Garonne in March, marking a 120-year connection with the town.

Together with the Mayor of Cadillac, Cadillac Europe has provided three new double EV charging points for use by the town. These charging points are powered by electricity generated on-site via a GeoPura HPU, green hydrogen-fuelled generator.

Location:	Cadillac-sur-Garonne, France
Dates:	9 months: March 2024 – December 2024
Equipment:	HPU 1 + 3 x EV Charging points

KEY METRICS

CO_2 saved:	38,428 kg
NOx saved:	524.6 kg
PM saved:	20.2 kg

APPLICATIONS

- Back Up Power
- Grid Augmentation
- EV Charging
- Off-Grid Power

Challenges

- Insufficient grid capacity.
- Sustainable alternative to diesel generators needed.
- Power supply and infrastructure required for EV Charging.

Solutions

- **GeoPura HPU utilised to provide zero emission power** and grid augmentation.
- **Experienced teams on site** to ensure reliable power supply
- **EV charging provided long term** as a sustainable solution

ZERO EMISSION FUEL

GREEN POWER GENERATION

About the project



The GeoPura Hydrogen Power Unit (HPU), which uses fuel cell technology to convert green hydrogen into zero-emission, critically backed AC electricity, has been utilised to create EV charging points in a rural area of southwest France.

The new charging station not only supports the creation of the town's EV ecosystem but also facilitates the transition to electric vehicles in areas where the local grid infrastructure is unable to meet charging demands. The transition to electric vehicles (EVs) is pivotal for achieving sustainability goals and reducing carbon emissions. However, one of the significant challenges hindering widespread EV adoption lies in areas where the existing grid infrastructure cannot support the increased demand for electric charging.

Recognising the need for robust EV charging infrastructure capable of meeting the demands of its EV consumers, Cadillac Europe partnered with GeoPura to provide an alternative solution.

GeoPura's HPU technology utilises green hydrogen — a clean and renewable energy source — to generate electricity onsite. This can be utilised independent of the grid or in support of the local grid to manage peak charging demands.

GeoPura HPUs leverage the process of electrolysis to produce hydrogen gas from water, using renewable energy sources such as wind or solar power. The hydrogen gas is then stored and converted back into electricity through fuel cells as needed to power EV charging stations. This ensures a sustainable and reliable energy supply for charging EVs, mitigating the strain on the grid and reducing carbon emissions from fossil fuel alternatives.



Find out more

Visit our website www.geopura.com

ZERO EMISSION FUEL

GREEN POWER GENERATION