

SUBJECT  
PORTFOLIO

# ENGIE & GREEN MOBILITY

September 2018

The logo for ENGIE, featuring a white curved line above the word "ENGIE" in a bold, lowercase, sans-serif font.

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# Our convictions

**Contributing to the development of sustainable mobility lies at the heart of ENGIE's strategy. To support businesses and communities, and facilitate the transition to greener mobility solutions, the Group is developing a comprehensive range of clean mobility solutions that transform the way energy is used. To achieve this, ENGIE has adopted a systems-based approach that combines its skills and expertise in alternative fuels, transport infrastructure, smart transit systems, and upstream design and planning.**

**Improving air quality, reducing noise pollution, keeping traffic flowing and optimizing transit networks: learn more about ENGIE's green mobility solutions.**



## **Improving quality of life and developing smarter mobility: public transport infrastructure, intelligent transportation systems, refueling infrastructure for green fuels**

How can we fight pollution and global warming in cities? How can we improve traffic flow and safety? The challenges of green mobility, to which ENGIE provides solutions, are lowering CO<sub>2</sub> emissions, reducing noise and developing accessibility. Cleaner fuels such as electricity, gas and hydrogen offer greener, more

cost-effective and more convenient transportation solutions for users. Intelligent transportation systems optimize existing infrastructure to help communities develop in the light of their region's needs and resources. Innovative solutions for harmonious urbanization.

# Our mobility solutions

For cleaner mobility:  
promoting the  
implementation of  
**green fuels**

Strengthening **urban**  
**logistics**

Improving **public transit**  
infrastructure

Optimizing the flow  
of **urban traffic**



# Key figures

ENGIE is positioned as a major player in mobility and transport



ENGIE, committed to a new era in mobility

With the growth of urbanization by

**2050,**

there will be

**2.4 billion**

new urban dwellers and

**2/3**

of us will live in cities,

automobile transport will

**double**

and passenger kilometers will be

**1.5**

times higher.

# Expert opinion

A woman in a black leather jacket and grey pants is riding a white bicycle with a black bag on the back. She is riding on a tram track that runs parallel to a road. The track is on a paved surface, and there are green grassy areas and trees on either side. In the background, there are tram tracks, overhead power lines, and a clear blue sky. The text 'Expert opinion' is overlaid in large white letters on the left side of the image.





## Zero carbon mobility

Ovarith Troeung discusses the importance of zero carbon mobility, the cornerstone of sustainable and livable cities.



« read his article »



## More sustainable mass transit with ENGIE

In metropolises and large cities today, journey times on public transit networks are still very long. This can be discouraging as many of

us are convinced that mass transit lies at the heart of more sustainable mobility.



« read Yann Roland's article »



# Urban mobility in real-time!







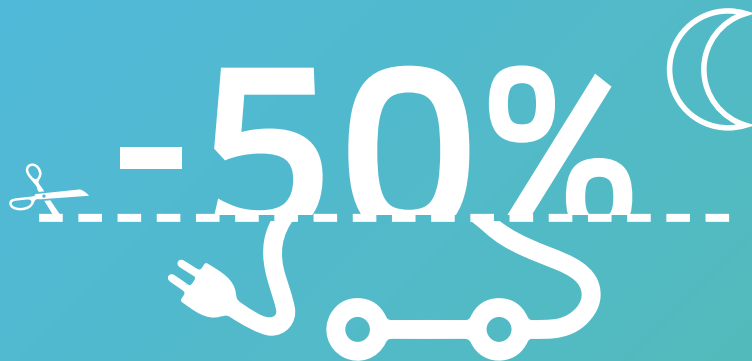




# ENGIE Solutions

# Elec'car offer: save 50% on electricity at night!

Electric vehicle owners, recharge your batteries for half the price.



Elec'car offer



# ENGIE X EVBox: 1,800 charging stations connected in Rotterdam



ENGIE X EVBox





# Hympulsion: hydrogen, the way forward for mobility

Officially launched in December 2017 in the Auvergne Rhône-Alpes region, Zero Emission Valley brings together all the public and private players in the hydrogen sector, and aims to develop hydrogen-powered mobility in the area. The objective is to create 20 hydrogen refueling stations (14 of which will also ensure fuel production) and to finance a fleet of 1,000 fuel cell vehicles.

At ENGIE Solutions, we firmly believe that renewable hydrogen is the missing link to achieve carbon-free ecosystems. As a regional energy systems

designer, ENGIE Solutions has used its detailed understanding of local challenges to bring stakeholders together and aggregate the whole region's renewable hydrogen needs. Within the context of the energy transition, our experts have built and developed the project alongside local stakeholders and partners. This station is being handed over to Hympulsion as the first station in the Zero Emission Valley project.

Julien CHAUVET,  
Hydrogen Director for France,  
ENGIE Solutions



# Livin'

In Brazil, the city of Niterói, located in the greater Rio area, is facing a common challenge for booming metropolitan areas: traffic congestion. In order to improve traffic flow and provide better quality of life for

its residents, the city launched an ambitious program featuring intelligent, automated and real-time urban traffic management based on Livin', a solution developed by ENGIE that brings smart cities to life.







# Beyond energy

## ENGIE sponsors the ENERGY OBSERVER boat

**ENERGY OBSERVER** is a ship that circumnavigates the world and functions as a floating laboratory, testing new energy solutions in a marine environment, under extreme conditions. The boat is powered by renewable energy and hydrogen, which it produces on board using ocean water. More than a boat, it is a zero-emission, autonomous energy system, which paves the way for the energy solutions of the future.



Find out more about this adventure



