

To reduce the harmful **environmental impact** of greenhouse gases and fight against climate change, it is essential to rethink **urban development**. Eco-Mobility, or clean transport, is an important aspect of sustainable development.



Preservation of natural spaces, biodiversity, energy resources, fight against fine particles and greenhouse gases... The world faces many environmental challenges today. Aware of these issues, SPIE innovates for the city of tomorrow and its people by developing intelligent technical solutions: electricity production systems based on renewable energies (solar panels, wind, biomass and hydroelectricity), innovative ecological buildings, efficient energy facilities...

The fight against global warming: a challenge of tomorrow

According to the Insee institute (2014), the French people's two main concerns, from an environmental point of view, are climate change and air pollution. To treat these issues, it is important to fight against the principal ones: greenhouse gases. Whether at European or world level, the reports of **carbon footprint** are indeed inciting us to change our habits: according to the French department of ecology, **CO₂ emissions** have increased by 80% since 1970 and 30% since 1990 to the equivalent of 49 Gt of CO₂ in 2010. In the transportation industry, more than 90% of the **CO₂ emissions** are produced by cars, which also emit particles. It is therefore urgent to rethink mobility.

What are the best practices?

To lower the **carbon footprint**, the ADEME (French national agency dedicated to the environment) advocates smarter movements of passengers and goods, and to reduce their number and frequency. Daily, for short distances, a non CO₂-emitting **transportation mode** should be privileged (walking, cycling, bus, metro, tram...). The agency also recommends to change our behavior with regards to Eco Mobility (teleworking, e-commerce, carpooling...) in order to minimize the use of polluting transportation.

The advent of the sustainable city will pass anyway by the **deployment of intelligent transportation systems**: infrastructure of bicycle in free access, less polluting cars, zero emissions **public transport** systems such as trams and electric buses.

SPIE and the green economy

To reduce human impact on the environment, it is necessary to develop solutions of **energy intelligence** at different levels. SPIE designs and manufactures technical solutions to **reduce**

energy consumption, like smart buildings or advanced electric vehicle charging infrastructure.

With an autonomy of 150 km and a performance in constant improvement, the electric car will play a very important role in the evolution towards Eco Mobility in the years to come, given that today most of the most part of motorists use their vehicles on short trips.

As a result, **Eco Mobility** constitutes a real asset to build a sustainable city because it does not contribute to air or noise pollution.

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