

Anne Hidalgo visits Damrémont school that has benefited from Paris energy performance...

The energy efficiency measures taken at this school form part of an 'energy performance contract' (CPE) that concerns 140 Parisian schools. This contract has been launched by the City of Paris and is financed by the local authority to the amount of €84 million in the investment program planned for this term.

The 'CPE' was awarded in March 2016 to an ENGIE Cofely (ENGIE Group) – ARTELIA Bâtiment & Industrie (ARTELIA Group) joint venture that was formed in response to a call for tenders^[1]. In compliance with the specifications, ENGIE and ARTELIA committed themselves to lowering the schools' energy consumption by at least 30% on the basis of renovation work. A total of 42 schools have already been renovated. The work shall continue during the school holidays in 2017 and 2018.

The CPE is also part of the Paris Climate and Energy Action Plan, which was implemented in 2012 and whose two main aims are to **reduce CO₂ emissions by 30%** and to **reduce the energy consumption of municipal buildings by 30%**. The renovation work, which is adapted to the specific architectural and thermal characteristics of each school, concerns:

- the renovation of buildings: internal or external insulation, inspection of joinery, etc.;
- the renovation of boiler rooms;
- the installation of a remote smart energy performance monitoring and control system, thereby guaranteeing the optimal management of the energy used;
- the use of **innovative connected-object technology to facilitate the energy transition process** and make the buildings smarter and less energy-intensive.

During the visit, Isabelle Kocher declared: *“ENGIE is pleased to contribute to the Paris Climate and Energy Action Plan, through concrete solutions combining energy and digital technology. This contract is also aligned with the co-construction approach that ENGIE is adopting with all its clients”.*

Benoît Clocheret added: *« ARTELIA is proud to be part of this partnership with the City of Paris. We contribute notably to the design and the driving of works programs, and also to the energy performance measures. »*

“The Energy Performance Contract of the City of Paris is unprecedented, innovative and far-reaching, following the ambitions of our Climate Energy Plan and the Paris Climate Agreement of December 2015. We are pleased that Parisian pupils are the first to benefit from it”, said Alexandra Cordebar, Deputy mayor of Paris for school affairs, Célia Blauel, Deputy mayor of Paris for Territorial Energy Climate Plan, and Jean-Louis Missika, Deputy mayor of Paris for town planning and architecture.

Guaranteeing the comfort of more than 21,000 pupils, teachers and municipal employees throughout the year is the project's primary requirement and is met by:

- replacing the most dilapidated boilers;
- fitting self-balancing valves to each radiator to homogenise the temperature within each area and ensure a comfortable temperature regardless of the circumstances;
- installing temperature and presence sensors in each classroom and covered courtyard, so that only occupied premises are heated;
- installing an on/off switch for the heating system in each classroom, so that the economy setting may be overridden and the comfort setting activated outside of the usual heating programme.

All of the building's controls (temperature setting and scheduled programme) are contained in a single connected system that lets the user manage the amount of energy consumed while ensuring the occupants remain comfortable.

Major works

For the 140 schools concerned, the extent of the work that shall be completed in 2018 can be summed up in a few figures. More than 1,600 energy performance measures will have been taken by the end of the works:

- 52,000 m² of joinery checked
- 20,500 m² of attic space insulated
- 24 internal or external wall insulation operations
- 53 boiler rooms modernised
- 9,160 LED lights installed
- 6,800 remote-controlled thermostatic valves fitted

For each school, work is scheduled to take place during and completed within a school holiday in order to minimise disruption to pupils and teachers.

[1] *The aforementioned energy performance contract falls under a public design, build, operate and maintain contract.*

About ENGIE

ENGIE develops its businesses (power, natural gas, energy services) around a model based on responsible growth to take on the major challenges of energy's transition to a low-carbon economy: access to sustainable energy, climate-change mitigation and adaptation and the rational use of resources. The Group provides individuals, cities and businesses with highly efficient and innovative solutions largely based on its expertise in four key sectors: renewable energy, energy efficiency, liquefied natural gas and digital technology. ENGIE employs 154,950 people worldwide and achieved revenues of €69.9 billion in 2015. The Group is listed on the Paris and Brussels stock exchanges (ENGI) and is represented in the main international indices: CAC 40, BEL 20, DJ Euro Stoxx 50, Euronext 100, FTSE Eurotop 100, MSCI Europe, DJSI World, DJSI Europe and Euronext Vigeo (World 120, Eurozone 120, Europe 120 and France 20).

About ARTELIA

ARTELIA is a global, multidisciplinary project management, engineering and consultancy group that operates in the construction, infrastructure, water and environment sectors. Employing 3,500 people, ARTELIA is a leader in its field in France; in 2015, the group turned over €405 m. It maintains an international presence through 42 offices located in Europe, Africa, the Middle East, Asia and South America. A total of 97% of the group's capital is held by its managers and employees. In June 2015, AFAQ audited the group's certified entities and subsequently renewed their ISO 9001, OHSAS 18001 and ISO 14001 certificates for another three-year period.

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