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France

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## Energy performance service contract for Saint-Étienne's Museum of modern art

- Saint-Étienne Métropole's Museum of modern art



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This is the first energy performance contract in France intended to reduce a building's energy consumption to meet the standards set by the Grenelle Environmental laws without performing any work on the building's existing structure.

Over a period of 8 years beginning in 2013, SPIE has guaranteed a **40% savings on energy consumption** for the HVAC installations at the Musée d'Art Moderne de Saint-Etienne Métropole. At the same time, SPIE will work to improve visitor comfort and contribute to preserving the museum's collections.

Requiring no renovation work on the building's structure, SPIE has designed a more efficient HVAC system that replaces energy-intensive equipment with an air/water heat pump combined with two natural gas boilers. SPIE will also integrate a heat recovery unit into the air treatment installations. A centralized management system will also provide enhanced control for the system. Special care will be taken to optimize air conditioning, temperature and relative humidity in order to preserve the collections.

SPIE guaranteed its performance by including a financial incentive to reduce the final consumption of the entire system.

The system uses the IMPVP protocol to measure actual energy savings.

In addition, SPIE is handling the operation and maintenance of systems used to produce energy and improve comfort.

#### KEY FIGURES

40%

ENERGY SAVINGS FOR HEATING AND AIR CONDITIONING

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## Related resources



["Le CPE du Musée d'Art Moderne de St-Etienne" brochure \(in French\)](#) [7]

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- [4] [http://www.spie.com/en/nos-realisations?tag\\_filiale\[0\]](http://www.spie.com/en/nos-realisations?tag_filiale[0])
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