Energy Microgrid and Energy Storage

*Lac-Mégantic, Quebec*

**WSP SMART™ SOLUTION**

Lac-Mégantic is looking to rebuild its downtown core, focusing on innovation and sustainable development.

**MAKING WSP SMART™ CONNECTIONS**

— Implementing a microgrid to integrate solar panels, BESS and charging stations to study new technology before applying it to other locations.

**PROJECT OVERVIEW**

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**PROJECT SUMMARY**

After the rail disaster in 2013, Lac-Mégantic is looking to rebuild a future focusing on innovation and sustainable development. As part of the downtown reconstruction, the city has engaged with WSP in Canada to implement a microgrid in Lac-Mégantic as a way of testing the new technology to roll it elsewhere and become a model Smart City.
The microgrid involves approximately 30 buildings, including institutional, commercial and residential buildings located within the study area perimeter (150,000 m²), a solar park (800 kWDC) and BESS (1,200 kWh) connected to the 25-kV MV network and located close to the study area perimeter.

Solar panels, BESS and charging stations on certain buildings will be implemented within the study area along with features like a microgrid controller, building control automation, and microgrid protection and supervision systems.

The microgrid will change and extend the existing 25-kV MV network to connect the energy resources to the existing distribution network.

WSP in Canada is also reviewing the state of existing Smart City related technologies that are presently in service or planned for near term commissioning and their capabilities to address any identified Smart City’s needs through configuration enhancements or integration with other systems.

**WSP SMART™**

WSP Smart™ integrates technology, sensors, communication and real-time analytics capabilities with the environment. WSP Smart™ brings new thinking to designing cities, buildings, infrastructure, across the built and natural environment.

**CONTACT US**

For more information on WSP Smart™, please contact Lucy.Casacia@wsp.com

**ABOUT US**

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