



Montevideo, Uruguay Reaps Energy Savings by Thinking Systemically



The solution provided an energy management system integrating

- A Secure Platform
- Meters
- Controls
- Data
- Dashboards
- Kiosks

Energy data visualization led to 6% reduction in energy consumption and a payback of less than one year.

Challenge

Municipal facilities, both old and new, located throughout the heart of Montevideo's municipal district, were significant users of energy with no means to manage or mitigate that usage. Lighting and HVAC were used without regard to need and manually turned down without regard to occupancy.

What was needed was:

- A Measurement and Verification tool allowing Montevideo to monitor energy usage in its building inventory
- A multi-dimensional platform integrating systems into a powerful decision-making tool to drive efficiency, responsibility, and sustainability.

Scope

The project involved several large facilities, including:

- Palacio Municipal de Montevideo *City Hall, seat of government, City of Montevideo*
- Palacio Legislativo *Offices of the Uruguay legislature*
- Anexo del Palacio Legislativo *offices for the elected legislators*
- Palacio de la Luz (UTE) *a block-long office complex, headquarters of the National Administration of Power Plants and Electric Transmissions (UTE)*
- Sede del BID *headquarters of the Inter-American Development Bank.*

Our Solution

As part of the Inter-American Development Bank Sustainable Cities Initiative, we initially installed smart energy meters in significant public buildings to measure energy consumption at five-minute intervals, providing a full view of their energy consumption.

We discovered that while each building operated differently, in part because of their unique functional "roles" in the city's life, all would benefit from a smart controls approach. We complimented that with real-time monitoring, energy conservation measures, energy pricing messaging, and an awareness campaign that focused on people and processes.

By showcasing measurable, quantitative results, we laid the groundwork for local leaders and the IADB to extend the initiative beyond the initial facility, expanding it to other facilities, both within the city and across the Americas.

How can we help you? Please contact Green Generation Solutions at info@greengenerationsolutions.com or 301.202.2930