

Expanding Global Footprint with Smart City Solutions



ST Electronics has built substantial capabilities in providing Smart City Solutions locally as well as internationally. Our wholly-owned subsidiary, Telematics Wireless (Telematics), a leading global solutions provider for smart lighting solutions and advanced energy and water resource management systems, has recently extended its footprint in UK and USA to provide its Galaxy Smart City solution that enables remote and real-time monitoring and control of street lights and other sensors for the cities.

Telematics' Galaxy M2M Communications Solution provides a single platform for multiple smart city and Internet-of-Things (IoT) applications including street light management, water resource management, advanced metering and utilities management. It has been successfully implemented for Water Advanced Metering infrastructure and Water Resource Management in various cities in USA including Texas, Alabama and Utah, as well as West Sussex in UK and Eilat in Israel. In addition to these projects, Galaxy's Smart Lighting solution has been deployed in Auckland, New Zealand, and Israel's Beer Sheba and Acco, bringing about much energy and cost-saving benefits to these cities.

Key recent projects include:

City of Montreal, Canada - Telematics has been selected for its smart city technology to be implemented for a control and monitoring solution for 132,500 street lights in the City of Montreal. Its solution will be provided as part of a C\$28 million contract awarded to Énergère Consultant Inc. (Énergère) for the supply and installation of an intelligent street lighting management solution. Telematics' solution enables reliable and secure two-way communications between lighting nodes and the Central Management System (CMS). This energy-saving solution controls lighting levels and monitors the power and energy usage of lightings. Street light outages are detected in real time, thus reducing maintenance costs and enhancing public safety.

City of Kiryat Gat, Israel – Telematics provides its T-Light™ Galaxy Smart City solution that comprises about 15,000 external Light Control Units which will wirelessly cover

the entire city with a single Galaxy gateway. The solution enables the city to fully monitor and control individual and groups of lights, monitor water pressure and water quality in public pipes, monitor sewage levels, waste and noise and air pollution. It provides real-time data analysis and control of all sensors remotely. It is expected to help the city be more energy efficient and generate greater cost savings.

Southend-on-Sea, UK – Telematics has been selected to deploy its T-Light™ Pro Streetlight Control and Monitoring System across the Borough of Southend-on-Sea. The system includes the deployment of 14,500 Light Control Units (LCU), system gateways and a management control solution. It provides a highly robust wireless mesh multi-hop secure network, utilising self-healing and cognitive radio algorithms. The system offers the Council real-time control of the network, thus allowing faster response to outages and reduced maintenance costs while realising energy savings.

Key West, Florida, USA – Telematics' T-light™ Galaxy NEMA Lighting Control Units (LCUs) were deployed in the first two of three phases to network the LeoTek LED Cobrahead fixtures in the City of Key West and the High Pressure Sodium (HPS) Cobrahead fixtures in the City's public beaches. This project demonstrated the system's unique ability to control both LED and HPS lamps using a central management software. It also allows the creation of lighting schedules, real-time variation of luminance levels and provides automatic fault reporting and warning alarms as well as comprehensive energy consumption reports. The City of Key West will benefit from energy savings and reduced maintenance costs enabled by Telematics' solution.

