



40% DROP IN ENERGY COSTS

Results

As a result of installing its Smart LED Streetlight system, Bydgoszcz expects to achieve:

- Energy-related cost savings of 40% compared to its previous street lighting system
- Reduced energy consumption
- Reduced CO2 emissions
- Ability to meet to ISO/IEC 13201, an EU road lighting performance standard

Bydgoszcz, Poland's eighth largest city, is located on the Brda and Vistula rivers.

First settled in the 13th century, Bydgoszcz has become an important economic center in Poland. It's home to more than 360,000 city residents and is known for picturesque buildings lining its riverfront, including a mix of Gothic and Art Nouveau architecture, as well as 18th-century granaries, cobblestone streets and outdoor cafes.

Challenge

To create a more efficient, safer and more eco-friendly lighting environment, city managers decided to retrofit more than 7,000 street lights with LED luminaires and a control network—making it one of the largest Smart Street lighting retrofitting projects ever undertaken in this part of Europe.

Solution

Bydgoszcz chose Philips and LUMA LED lamps; the GLC142 ballast controller from Apanet; and the Echelon SmartServer system controller. The solution is based on Echelon's LonWorks®, a worldwide automation and control standard for distributed systems, and the standard LonTalk® protocol that enables smooth intercommunication among the different manufacturers' products.