

Realised project street lighting: Municipality of Antiesenhofen, Upper Austria

Project background and objectives

The street lighting system of the municipality of Antiesenhofen was quite old (partly from the 60s) and represented a large percentage of the municipality's electricity consumption. The light quality was unsatisfactory and significant repair work was required. Already some years earlier, the municipality considered a renovation, but it was suspended due to a lack of financial resources. In 2014, the project was undertaken and combined with repair work for damages on some concrete masts. The focus was put on refurbishing the public lighting on the main street and in the west part of the municipality.

Project description

The main objective of the project was to improve the physical state and energy efficiency of the street lighting system without compromising service quality. The municipality was interested in using an EPC (energy performance contracting) model for this project, 4 ESCOs were asked to submit an offer. The decision was taken not to include the maintenance costs in the EPC contract. This was intensively discussed in the preparatory phase. The municipality nevertheless benefits from a significant reduction of its maintenance costs due to the new energy efficient and low-maintenance LED lighting system.

Significant parts of the refurbishment work could not be financed by the electricity saving measures. For these, the municipality paid a deposit. However, combining the necessary repair work with the energy efficiency project ensured a professional implementation of all measures by a street lighting specialist.



Facts

- **Population:** 1,057 inhabitants
- **Type of streets:** 60 % of the street lighting (country roads, residential areas)
- **ESCO:** eww

- **Electricity cost savings:** 1,600 €/year
- **Reduction electricity consumption:** 10,600 kWh/year
- **CO₂ reduction:** 3.2 tons/year

- **Investment costs:**
 - 296,500 € (total investment)
 - 15,900 € (financed by the EPC project)
- **Subsidies:**
 - 3,200 € (regional contracting programme)
- **EPC contract duration:** 10 years

Further information:

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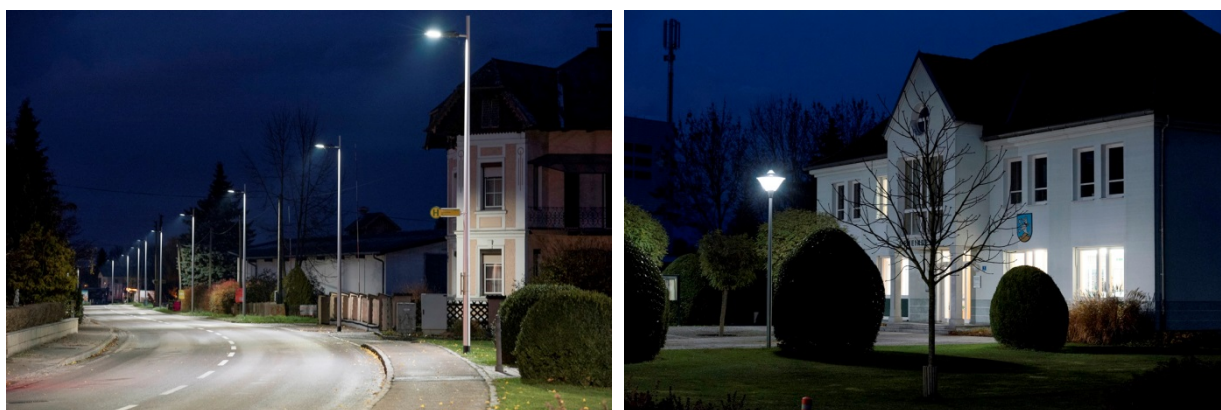
Streetlight data of the project	Before renovation	After renovation
Total installed electric capacity	5 kW	2.4 kW
Total number of lamps	82	58
Number of lighting points (luminaires)	54	58
Annual electricity consumption	20,700 kWh	10,100 kWh
Annual electricity costs	3,100 Euro	1,500 Euro
Annual maintenance costs	1,500 Euro	1,200 Euro

Results

The municipality wanted to limit the amount of digging and excavation work done during the project. This was made possible by working with a local company that employs pipe jacking - a trenchless method of drilling tunnels and lay piping underground with only minimal surface damage. This resulted in much less demolition and reconstruction of roads. The project benefited from the very positive collaboration between the ESCO and the local electrical company. The municipality is very satisfied with the implementation process and outcome of the project and is pleased with the quality of the lighting.

Support by the facilitation service

The facilitation service supported the municipality throughout the development of the EPC project by offering feedback and guidance on funding aspects as well as on the content of the EPC contract.



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Photos: Gemeinde Antiesenhofen, OÖ Energiesparverband