Realised project street lighting: Municipality of Rohrbach-Berg, Upper Austria

**Project background and objectives**
Rohrbach-Berg is a municipality in the Northern part of Upper Austria located in a rural area close to the borders to Germany and Czech Republic.

The street lighting project was originally planned in the municipality of Berg. After Berg and the neighbouring municipality of Rohrbach were amalgamated, the project was completed by the municipality officials of former Rohrbach. It was successfully carried out and finalised in 2015.

The renovation project covered the whole street lighting of the former municipality of Berg and a part of Rohrbach. As Rohrbach had already implemented two EPC projects in recent years, Berg benefited from their experience and know-how.

**Project description**
The street lighting system of Berg was very old (1960s) and renovation was needed. Some of the masts were in poor condition. Besides improving these aspects, the municipality's main aim was to save electricity and use more efficient lighting technology. As parts of the streets are highly frequented by pedestrians, the municipality also wanted a suitable solution for pedestrian safety.

4 ESCOs were asked to bid. A rough analysis was carried out and used as a basis for the development of the first offer.

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**Facts**

- **Population**: 5,100 inhabitants
- **Type of streets**: street lighting system of the district "Berg" and a small part of the district "Rohrbach"
- **ESCO**: regional ESCO Elin
- **Electricity cost savings**: 5,700 €/year
- **Maintenance cost savings**: 6,500 €/year
- **Reduction electricity consumption**: 37,700 kWh/year
- **CO₂ reduction**: 11.3 tons/year
- **Investment costs**:
  - 271,100 € (total investment)
  - 121,500 € (financed by the EPC project)
- **Subsidies**:
  - 24,300 € (regional contracting programme)
  - 4,400 € (environmental subsidy)
- **EPC contract duration**: 10 years

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**Further information**:  
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<table>
<thead>
<tr>
<th>Streetlight data of the project</th>
<th>Before renovation</th>
<th>After renovation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total installed electric capacity</td>
<td>12.5 kW</td>
<td>3.5 kW</td>
</tr>
<tr>
<td>Total number of lamps</td>
<td>276</td>
<td>139</td>
</tr>
<tr>
<td>Number of lighting points (luminaires)</td>
<td>139</td>
<td>139</td>
</tr>
<tr>
<td>Main lamp type</td>
<td>Fluorescent</td>
<td>LED</td>
</tr>
<tr>
<td>Annual electricity consumption</td>
<td>52,500 kWh</td>
<td>14,800 kWh</td>
</tr>
<tr>
<td>Annual electricity costs</td>
<td>7,800 Euro</td>
<td>2,100 Euro</td>
</tr>
</tbody>
</table>

### Results

The project was implemented shortly after the municipalities of Rohrbach and Berg were amalgamated. The amalgamation resulted in the decision to enlarge the project to also include the renovation of a part of the former municipality of Rohrbach. As a result, more lighting points were renovated than initially planned and agreed upon by the municipality and ESCO (139 instead of 121). The municipality Rohrbach-Berg is very happy with the new street lighting system and highly recommends LED technology to other municipalities.

### Support by the facilitation service

Before starting the project, the municipality attended a Streetlight-EPC information event organised by the Upper Austrian facilitation service through which a quick-check was completed and discussion about the project commenced. This was the kick-off for the project. During the development and implementation of the project, the facilitation service was contacted several times. The support of the facilitation service was regarded as very welcome and helpful.