Creating perfect places to learn
Energy performance overhaul at 87 schools in Sosnowiec, Poland

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Improving the learning environment while reducing energy costs

10 months, 87 schools and a 10-year savings guarantee: Sosnowiec is a model for Public Private Partnerships (PPPs) and achievements in the field of energy services – and higher grades for students thanks to comfortable temperatures.

Energy costs ran high across all 87 schools and preschools in Sosnowiec, due to classroom temperatures that were generally too high and hard to control at the room level. Inevitably, this also had a negative impact on students’ performance, who found it difficult to concentrate in overheated rooms. For the authorities in Sosnowiec, it was clear that a complete refurbishment of the schools’ systems was required in order to optimize both their energy operations and their energy management. The solution also had to deliver results fast, be scalable to other facilities in the near future and be financially feasible – all without interrupting school operations or creating any safety risks for students.

It is hoped the award-winning project and its visible environmental and social impact will spur other Polish cities and municipalities to adopt similar programs and financing models.

<table>
<thead>
<tr>
<th>Investment (≈ Zł17m)</th>
<th>Guaranteed heat savings (51,070 GJ/a)</th>
<th>Guaranteed power savings (750 MWh/a)</th>
<th>Estimated CO₂ reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>€4 million</td>
<td>31%</td>
<td>21%</td>
<td>5,220 tpa</td>
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Award-winning Public Private Partnership

The project was awarded the 2015 European Energy Service Award (EESA). The award recognizes the project for the significant savings it delivered, and for the benchmark it sets in leveraging Public Private Partnerships and Energy Performance Contracting to support the public sector’s energy consumption and CO₂ emission reduction goals.

“Successfully implementing a project of this scale – within very tight operational parameters and with such ambitious goals – requires more than a technology overhaul. In this case, we created a comprehensive framework that encompassed system retrofits, modernization and optimization, of course; but we also fulfilled the municipality’s high expectations for speed and results with an outcome-driven financing model.”

Marek Tobiacelli of Siemens Poland

Navigator – the cloud-based energy and sustainability platform

Turning data into results across your entire building portfolio

A perfect place to learn – behind the scenes

The outstanding results in Sosnowiec were not only achieved through sound consulting, but also by implementing the necessary measures. The result: a comprehensive solution from a single source.

The details:

- Energy Performance Contracting and interim financing
- Modernization of heating systems and switchgear
- Modernization of lighting
- Installation of a remote room temperature control system
- Implementation of Navigator – the cloud-based energy and sustainability platform
- User training via ESCO

Data-driven services from Siemens

Data analysis
Apps to track energy and sustainability KPIs

Leverage transparency
Make insight-based decisions with self-service dashboards

Data connection and collection
Gathering the data you need

Uncover opportunities
Take action to optimize your buildings

High-performing building
When building technology creates perfect places – that’s Ingenuity for life.


With our knowledge and technology, our products, our solutions and our services, we turn places into perfect places.

We create perfect places for their users’ needs – for every stage of life.

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