

SIEMENS

Ingenuity for life

Winner of
the 2015
EESA Award



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



€4 million

investment
(≈ Z117m)



31%

guaranteed
heat savings
(51,070 GJ/a)



21%

guaranteed
power savings
(750 MWh/a)



5,220 tpa

estimated CO₂
reductions

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.

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.

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.

“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

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.



A perfect place to learn – behind the scenes

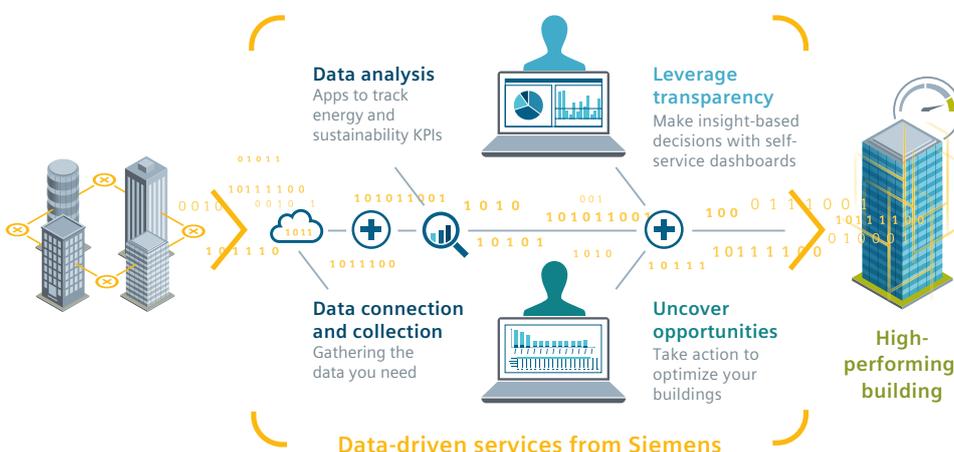
The outstanding results in Sosnowiec were not only achieved through sound consulting, but also by implementing the necessary measures. The result: a comprehensive solution from a single source.

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

Navigator – the cloud-based energy and sustainability platform

Turning data into results across your entire building portfolio



When building technology creates perfect places – that's Ingenuity for life.

Never too cold. Never too warm.
Always safe. Always secure.

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.

#CreatingPerfectPlaces
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