

Broendby Strand School



Broendby Strand School, Denmark

Annual electricity consumption: 278 MWh
 Annual heat consumption: 1,305 MWh

Energy Centre Solution

- 2 x XRGI® 20
- 2 x 1,000 l Storage Tank
- 2 x 16 kW Heat Pump
- 3 x 165 kW Boiler

Commissioned

January 2019

Energy Centre Performance

Electricity coverage: 59 %
 Heat coverage: 100 %
 XRGI®: 45 %
 Heat pump: 16 %
 Boiler: 39 %

Outcome

Annual carbon reduction: 21 %
 Annual energy reduction: 13 %
 Annual cost reduction: ca. 323,000 DKK

Creating a better future - the efficient energy centre at Broendby Strand School

Broendby Strand School, situated in the Southwest of central Copenhagen, is a large municipal school with more than 1,000 students and approximately 160 members of staff. The energy demand of the school is correspondingly high and so were the running costs. To allocate as many resources as possible to teaching, there was a demand for operational efficiency and low running costs of the technical installations.

EC POWER found the optimal solution for the municipality of Broendby to meet their exact needs within the economic capabilities: The new hybrid energy centre commissioned in January 2019 supplemented the three existing 165 kW condensing gas boilers with two new XRGI® 20 cogeneration units, two 16 kW heat pumps, and two 1,000 l storage tanks.

Using the energy in a far more efficient way enabled the annual costs for power and heating, as well as the CO₂ emissions, to be substantially reduced.



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