

Joerlunde Educational Centre



Joerlunde Educational Centre, Denmark

Annual electricity consumption: 941 MWh
 Annual heat consumption: 1,239 MWh

Energy Centre Solution

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

Commissioned

September 2016

Energy Centre Performance

Electricity coverage: 34 %
 Heat coverage: 100 %
 XRGI®: 66 %
 Heat Pump: 21 %
 Boiler: 13 %

Outcome

Annual carbon reduction: 23 %
 Annual energy reduction: 64 %
 Annual cost reduction: ca. 472,000 DKK

Creating a better future - the efficient energy centre at Joerlunde Educational Centre

Joerlunde Educational Centre, situated north west of central Copenhagen, is a conference centre and educational facility for members of the Metal Trade Union. The trade union currently has approx. 130,000 members. The complex of buildings is more than 10,000 square metres in total and consist of approx. 25 apartments for course participants, conference rooms, a canteen, dining room, basement bar, pool area, and offices.

In September 2016, a new hybrid centre was installed and commissioned. The existing heating system consisting of two boilers was upgraded with three new XRGI® 20 cogeneration units, two 1,000 litre storage tanks, a 57 kW heat pump, and intelligent controls. Generating both heat and power, the XRGI® units provide the electricity for the heat pump and thereby allow for a far better utilisation of the energy being consumed. This gives rise to both reduced carbon emissions and reduced running costs for electricity and heating.



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