

# Joerlunde Educational Center



## Joerlunde Educational Centre, Denmark

Annual electricity consumption: 961,000 kWh  
 Annual heat consumption: 42,283 Therms

### Energy Centre Solution

- 3 x XRGI® 20
- 2 x 264 Gallon Storage Tanks
- 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

<b>Annual carbon reduction:</b>	<b>23 %</b>
<b>Annual energy reduction:</b>	<b>64 %</b>
<b>Annual cost reduction:</b>	<b>approx. \$68,000</b>

## Creating A Better Future The Efficient Energy Center at Joerlunde Educational Center

Joerlunde Educational Center, situated north west of central Copenhagen, is a conference center 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 6.2 square miles 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 center was installed and commissioned. The existing heating system consisting of two boilers was upgraded with three new XRGI® 20 cogeneration units, two 264 gallon 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 there-by allow for a far better utilization 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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