

## Information about district heating Svaneke, Aarsdale og Listed

The district heating project for Svaneke, Aarsdale and Listed are now approved by the Regional Municipality of Bornholm.

Bornholms Forsyning (Supply) is along with the local associations working to realize the project as soon as possible.

A high connection rate is necessary!  
For the project to be implemented, it requires that the majority of the properties, which now has oil-fired boilers, connect: At least 60 % should connect (of the residential / commercial area that are heated with oil).

### Call for a quick sign up!

- as soon as there is a sufficient registration, the project is implemented as soon as possible. The district heating will be produced at the heating plant in Nexø, starting with the establishment of transmission line from Nexø to Aarsdale. It is the hope to convert the first houses to district heating at the end of 2014 (Aarsdale), then Svaneke and Listed during 2015.

A preliminary schedule is available on the website [www.bornholmsforsyning.dk](http://www.bornholmsforsyning.dk), which has much more information on district heating etc. Later a detailed timetable will be published, which shows when excavation work takes place for individual roads, and when the houses convert to district heating.

Bornholms Forsyning has through already implemented district heating projects collected a lot of experience, most recently in Gudhjem / Melsted. These experiences will be used to make the project as efficiently as possible, and to reduce the cost of rock blasting. Bornholms Forsyning already operates the water and sewerage networks in Svaneke, Aarsdale and Listed.

Houses with oil boilers, biomass boilers, etc. Houses with oil-fired boilers, wood pellet, or solid fuel boiler will be offered a complete package solution with service line and installation of only 17,000 dkr. incl. VAT (to be paid before the property converts to district heating). This very advantageous price is reserved for properties that are connected from the start - at least simultaneously with the implementation of the distribution network.

The terms of commercial and larger installations must be agreed individually.

Houses with electric heating or heat pump. If the house is heated with electricity, you get free service pipe + delivery of the unit - but you must pay for the connection of the unit and possible radiators etc. An offer from a plumbing company can be a solution that is attractive.

It is possible to get up to 5 years of postponement to district heating usage and pay the regular taxes.

What you can save

The district heating price is significantly cheaper than equivalent heating with oil or electricity.

The example below shows what district heating costs per year compared to oil or electric heating. The example is based on a house with a living area of 120 m<sup>2</sup>, and a consumption of heating of 14 MWh (megawatt hours), corresponding to approximately 2,000 liters of oil.

All prices are incl. VAT and is from 2014

### Annual district heating costs

Variable costs:	
14 MWh, 640 dkr./MWh	8,960 dkr.
BRK tax, 31.25 dkr./MWh	438 dkr. (1)
Basic costs:	
Floor tax, 26.25 kr./m <sup>2</sup>	3,150 dkr. (2)
El. to shunt pump, 50 kWh	110 dkr.
Service	0 dkr.
<b>Total (annually)</b>	<b>15,452 dkr.</b>

(1) New municipal tax from 2014 for loan guarantee

(2) Maximum charge of 175 m<sup>2</sup> per housing

### Annual oil boiler costs

Oil:	
2,000 l, 11.5 dkr./l	23,000 dkr.
Electricity, pump etc.:	700 dkr.
Chimney service	400 dkr.
<u>Service and maintenance</u>	<u>1,000 dkr.</u>
<b>Total (annually)</b>	<b>25,100 dkr.</b>
(Savings app.)	10,000 dkr.)

### Annual costs for electric heating

Electricity:	
14 MWh, 1,600 dkr./MWh	22,400 dkr.
<u>Service and maintenance</u>	<u>0 dkr.</u>
<b>Total (annually)</b>	<b>22,400 dkr.</b>
(Savings app.)	7,000 dkr.)

### An easy and reliable solution

It is fairly simple to implement district heating in private homes. The supply line is decided by Bornholms Forsyning after discussion with the owner. The boiler must be replaced with a consumer unit, and radiators and pipes can be reused. The installation work is carried out within one day of local plumbers.

When district heating is installed in the house there are, in addition to a brand new heating system, also following advantages:

- Easy adjustable and compact heating system
- Minimal maintenance
- No noise and smoke from oil boilers
- CO<sub>2</sub> neutral heating from local biomass.
- Low heating bill.
- Service and leakage monitoring is included in the heating price, and:
  - weather compensation unit:

Electrical controlled regulation of the district heating temperature, adjusting this to the outside temperature. This reduces loss in the network and optimizes the cooling. At the same time, the system can even shut off when the outdoor temperature is sufficiently high over 3 days, and open the plant again when the temperature drops. This results in considerable savings, especially for one-string systems. Possibility of night-lowering, if the property is suitable for this.

Service for district heating consumers at Bornholms Forsyning

Service applies to all regular households, and shall ensure that the household is offered a service check at least every third year to the benefit of both consumers and the district heating company. The service check covers the visit of a plumber and instructions to consumers on the use of district heating, as well as information about energy savings and green initiatives.

The price of 17,000 dkr. incl. VAT includes:

- Establishment of the service pipe and insertion to the house. All excavation work, restoration, etc.
- Heat meter including leakage monitoring.
- Consumer unit including hot water tank and weather compensation.
- Plumping- and electricity work.
- Disposal of oil-fired boilers, hot water tank as well as above-ground oil tank.
- Emptying / blanking of underground oil tanks.

The price does not include:

- Sealing holes in the floor and wall after the old combustion units, feeding tube, etc.
- Blanking of the chimney

### More information

This information material is prepared by Bornholms Forsyning,  
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in cooperation with the local group, that represents the civic associations in Svaneke, Aarsdale and Listed.



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