

# Calculation of prices for district heating

District heating from surplus heat

## District heating in Havdrup, Naurbjerg & Kirke Skensved

### The district heating price compared to today's heat price

The expected costs for district heating compared to your current heating costs. There are three calculations:

- **Firstly**, your current cost including fuel, maintenance, service, taxes and VAT is calculated but without construction costs (you have the facility).
- **Secondly**, we calculate your district heating costs corresponding to your current heat consumption. Calculation covers all costs: Construction investments, connection, heating costs, taxes and VAT.
- **Third** - If you have electric heating calculated cost of district heating projects including the radiators, pipework etc. in the house.

Address:

Write

Heated area in m2:  m2  
Energy consump. calculated:  MWh

Place

### 1. Used heat source today:

Gas fired, natural gas	<input type="text" value="0"/>	Nm3
Oil boiler, standard	<input type="text" value="2.100"/>	liter
Boiler, heating oil	<input type="text" value="0"/>	liter
Electric heating / water heater	<input type="text" value="0"/>	kWh
Geothermal	<input type="text" value="0"/>	kWh
Air heat pump	<input type="text" value="0"/>	kWh
Wood stove, wood	<input type="text" value="0"/>	kg
Wood stove, briquettes	<input type="text" value="0"/>	kg
Wood chips Boiler	<input type="text" value="0"/>	kg
Pellet stoves	<input type="text" value="0"/>	kg
Heating central Ørnesædet	<input type="text" value="0"/>	kWh
Coke boiler	<input type="text" value="0"/>	kg

**371 m3 Duty**

Estimated costs by current prices: 24.196 DKK per year

The prices include fuel, maintenance, service, taxes and VAT on existing plants.

### 2. District heating

Calculated costs by estimate on plant: 15.072 DKK per year  
Expected annual savings: 9.124 DKK per year  
Percentage savings: 37,7% DKK per year

NB: Only if there are radiators and pipes (central heating system) in advance

Prices include **capital expenditures**, connection, heating costs (fixed and variable), taxes, VAT.

### 3. District heating, if there are no radiators in the house

Calculated costs by estimate on plant:  
Instal. waterborne system:  no.of rooms  0 DKK per year  
Total annual expenses: 15.072 DKK per year  
Expected annual savings: 9.124 DKK per year  
Percentage savings: 37,7% DKK per year

Prices include **capital expenditures**, connection, heating costs (fixed and variable), taxes, VAT.

The number of rooms is only filled if you have electric heating and must have radiators. The calculation is based on funding over 15 years with an interest rate of 5% for the radiators.



# Data for calculating cost of existing supply

## Costs of existing supply

The blue numbers are based on data that can be changed if necessary

Current supply Expenses DKK incl. VAT	Energy consump.	Energy prices	Heating costs	El-used oil / gas	Rate Ørnesd.	Inspection service	Various	Total costs	Efficiency	Calorific value	Heating MWh	kWh per m2
Gas fired, natural gas	0 Nm3	7,31 Nm3	0	0	-	0	0	0	88%	11,00 kWh/Nm3	0,0	0,0
Oil boiler, standard	2.100 liter	10,59 DKK/liter	22.236	460	-	1.500	-	24.196	85%	10,00 kWh/liter	17,9	89,3
Boiler, heating oil	0 liter	8,25 DKK/liter	0	0	-	0	-	0	85%	9,00 kWh/liter	0,0	0,0
Electric heating / water he:	0 kWh	1,72 DKK/kWh	0	-	-	0	-	0	100%	1,00 kWh/kWh	0,0	0,0
Geothermal	0 kWh	1,72 DKK/kWh	0	0	-	0	-	0	3,2	1,00 kWh/kWh	0,0	0,0
Air heat pump	0 kWh	1,72 DKK/kWh	0	0	-	0	-	0	2,8	1,00 kWh/kWh	0,0	0,0
Wood stove, wood	0 kg	1,00 DKK/kg	0	-	-	0	-	0	70%	4,00 kWh/kg	0,0	0,0
Wood stove, briquettes	0 kg	2,00 DKK/kg	0	-	-	0	-	0	70%	4,65 kWh/kg	0,0	0,0
Wood chips Boiler	0 kg	1,45 DKK/kg	0	0	-	0	-	0	75%	2,90 kWh/kg	0,0	0,0
Pellet stoves	0 kg	2,60 DKK/kg	0	0	-	0	-	0	80%	4,90 kWh/kg	0,0	0,0
Heating at Ørnesædet	0 kWh	0,29 DKK/kWh	0	0	0	0	0	0	100%	- kWh/kg	0,0	0,0
Coke boiler	0 kg	9,00 DKK/kg	0	0	-	0	-	0	80%	9,50 kWh/kg	0,0	0,0
<b>Total annual expenses</b>			<b>22.236</b>	<b>460</b>	<b>0</b>	<b>1.500</b>	<b>0</b>	<b>24.196</b>			<b>17,9</b>	<b>89,3</b>

## The tariff system • Calculation of costs for supply of district heating for houses without radiators

Cost / tariffs	Annual costs	Establishment of radiators		Price per radiator installeret
		Interest	Depreciation	
<b>Establishment radiators</b>	0 kr.	5,0%	15 year	6.000
Administrative costs	313 DKK/år			313
Capacity costs	18,50 DKK/m2			2.960
Consumer payment	661,00 DKK/MWh			11.799
<b>Total annual expenses - subscription, area &amp; consumption tax:</b>	<b>15.072</b>			