



# Welcome to ABioNova



ABioNova - [www.abionova.com](http://www.abionova.com)



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## ABioNova – HTMW 2012

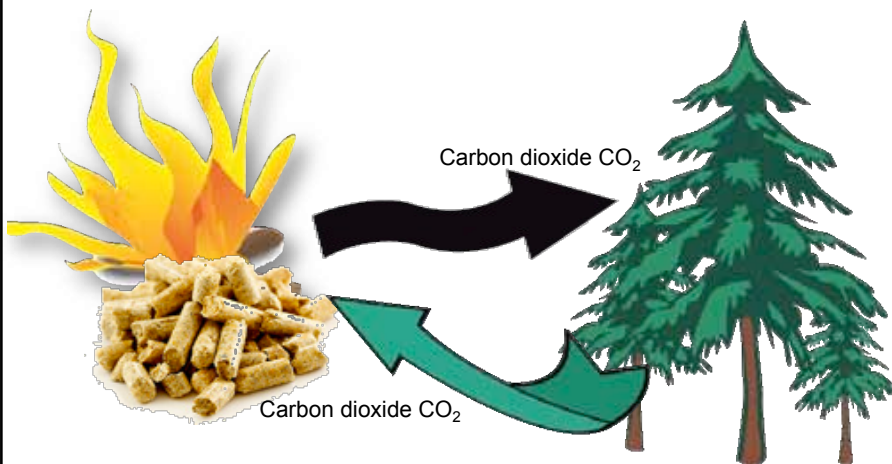
- Renewable energy
- Swedish market
- District Heating
- ABioNova Products
- USA potential

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## Renewable Energy...

...does not give any addition of carbon dioxide at combustion.

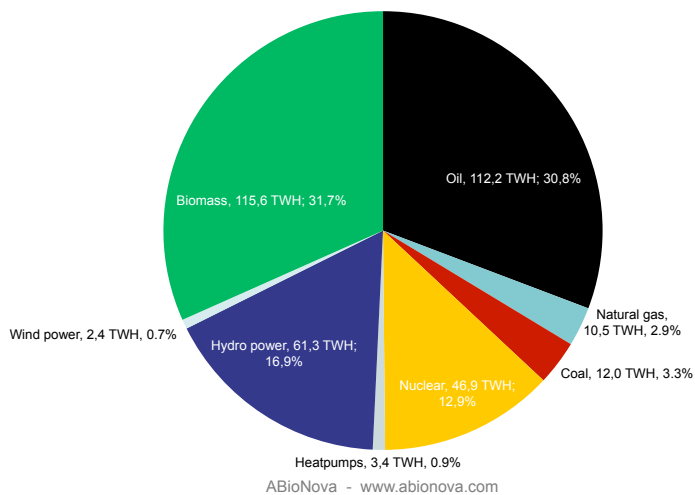


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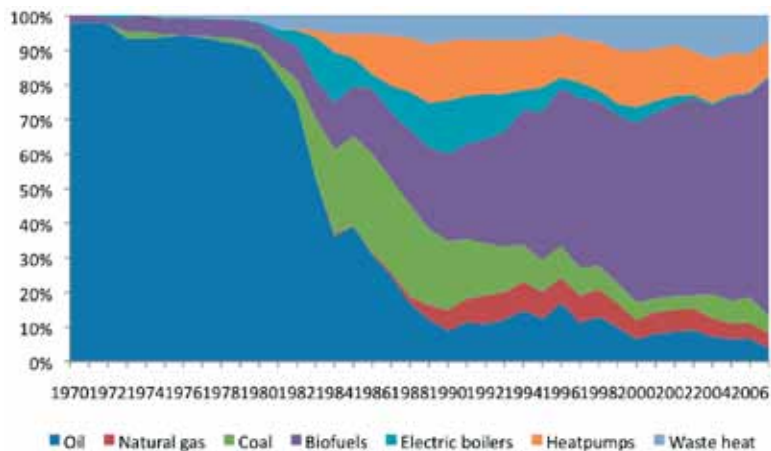


## Swedish Fuel Sources

Share of fuel usage of total in Sweden



## Swedish market – District Heating

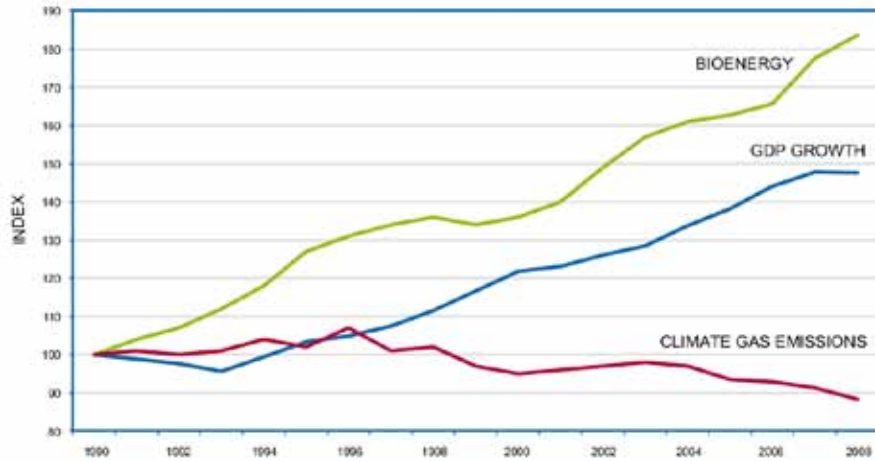


Share of fuel usage of total district heat production in Sweden 1970-2007

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## Swedish Carbon Tax

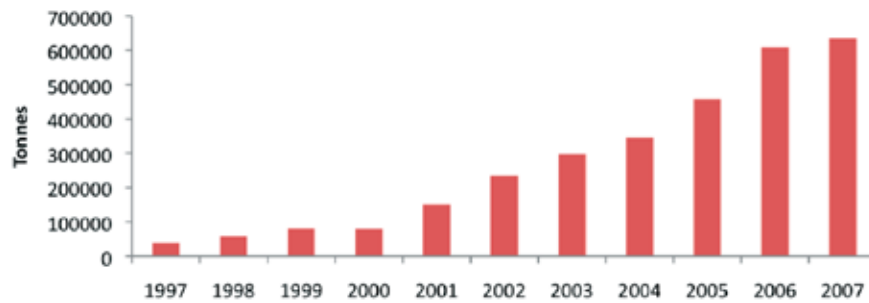


BE +84%, GDP +48%, CGE -11%

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## Swedish market



Tonnes of sold pellets to residential houses 1997-2007

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# What Is District Heating?

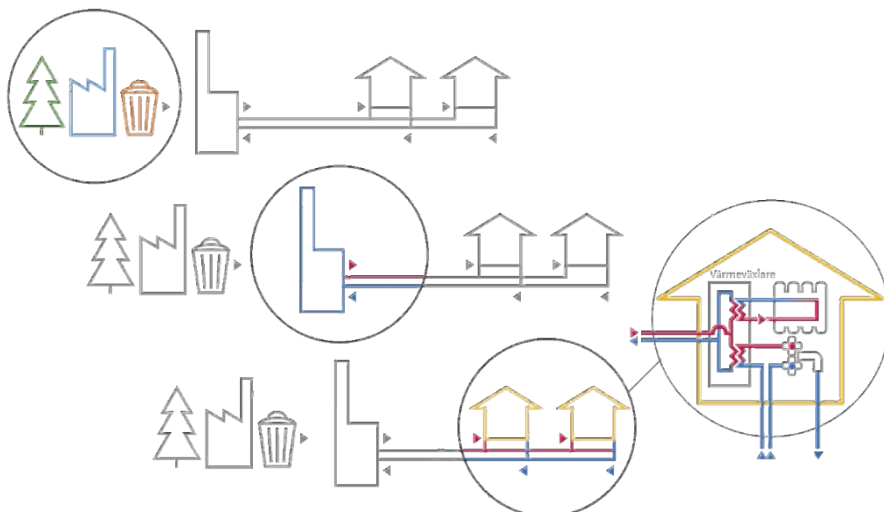


Thermal production in only one plant for the entire city

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# District Heating How It Works

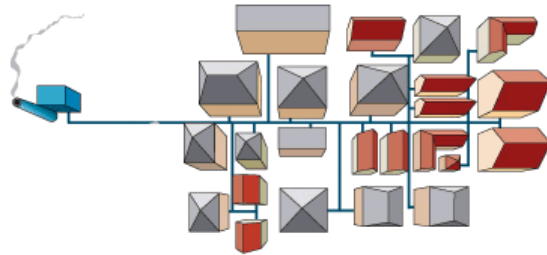


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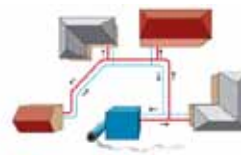


# District Heating

## District Heating vs Small Scale District Heating



District Heating



Small Scale District Heating

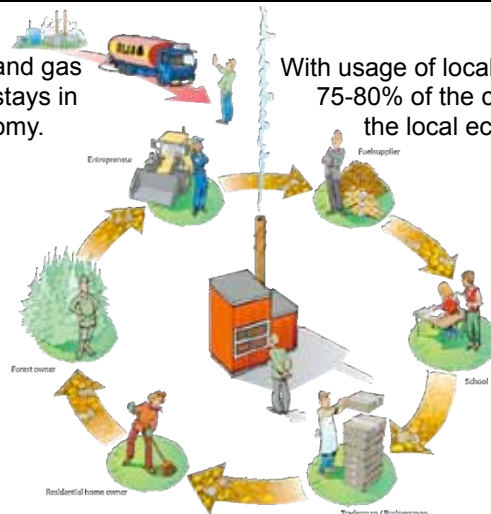
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# Economic Impact

With usage of oil and gas  
3-5% of the cost stays in  
the local economy.

With usage of local biomass fuels  
75-80% of the cost stays in  
the local economy.



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## ABioNova Target Groups

Small scale

Medium scale

Large scale

< 340.000 BTU

340.000-3.500.000 BTU

> 3.5 MBTU

### ABioNova

- Schools
- Churches
- Hotels
- Town hall
- Resorts
- Small district heating

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## ABioNova Biomass Boiler



Biomass boiler with NovaReg control both from ABioNova

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# ABioNova HeatCabin

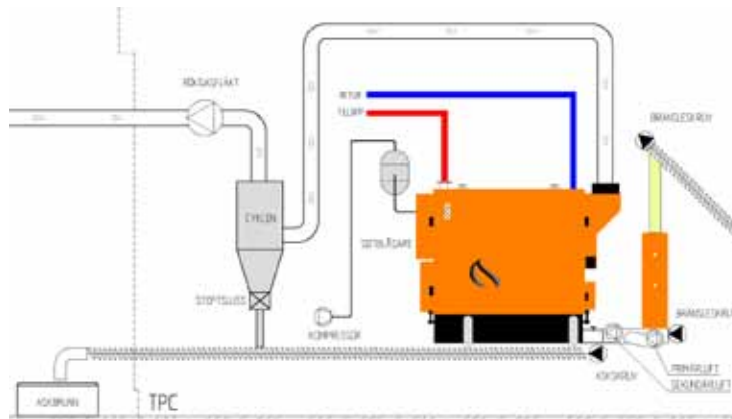


ABioNova HeatCabin with biomass boiler on the road!

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# ABioNova System



ABioNova HeatCabin system discription.

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## ABioNova HeatCabin



HeatCabin in Hjortkvarn 445.000 Btu for a school.

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## ABioNova HeatCabin



ABioNova HeatCabin environmental friendly.

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## ABioNova Biomass Boiler



Biofuel boiler in Stockholm 3.400.000 Btu for 200 apartments.  
Delivery of fuel wood pellet

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## Small Scale DHP



Pellet DHP in Gislaved 17.000.000 Btu for a school, sport arena and community district heating.

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## Small Scale DHP 20 MMBTU

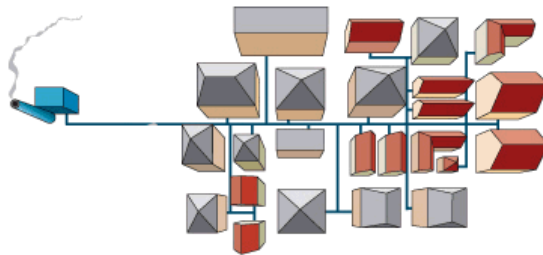


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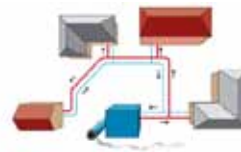


## USA Potential

### District Heating vs Small Scale District Heating



District Heating

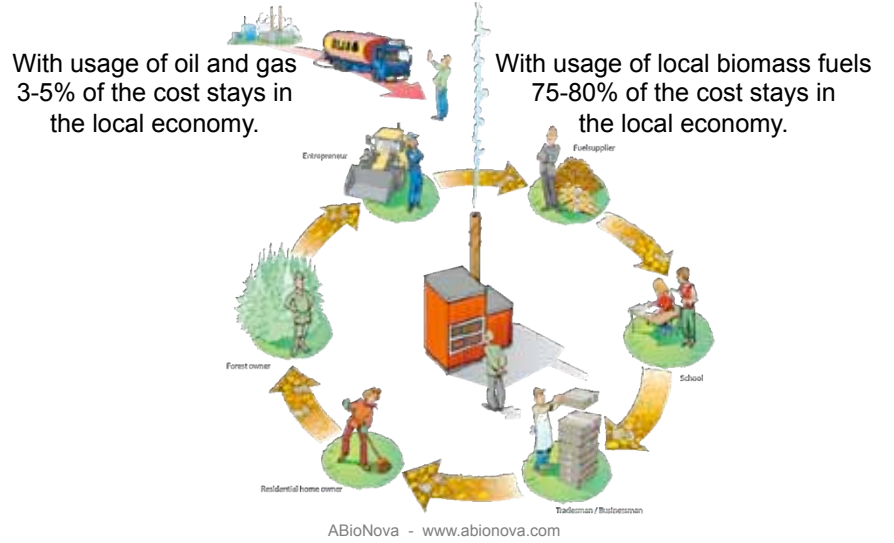


Small Scale District Heating

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## USA Potential



## USA Potential – Wolf Ridge ELC



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Thank You

**ABioNova**

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