

Heating network:  
modernization of an existing  
scheme and implementation  
of biomass

## The example of the city of Vrable (Slovakia)



# District heating system in Vrable

## Basic information (2010)

Turnover	1 105 kEUR
Sell of heat	54 185 GJ
Boiler	3 for gas
Households heated	1917
Surface of the heated area	2 228 m <sup>2</sup>
Number of clients	26



Dalkia in Vrable

01/01/2001 – 31/12/2020  
Initial Contract for 20 years  
for Dalkia Vrable

Joint venture

Dalkia 80 %  
city of Vrable 20 %

Number of inhabitants 9 390

# Reasons for the project

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- Increase of the gas prices
- Diversifications of the energy sources (the gas crisis between Russia and Ukraine was a warning)
- Fight against disconnections from the district heating system
- Decrease of the production of CO<sub>2</sub>
- Sustainable development of the region
  - Creation of the new jobs connected to the production of biomass
  - The financial gains from the sell of the biomass will stay in the region

# Proposal to the city

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- Install a biomass boiler of 1.9 MW<sub>t</sub> and replace 32 000 GJ produced from natural gas by wood chips
- Decrease of the heat price by 5 %
- Project financing not from the municipal budget nor from Dalkia (European funds)





# Construction



September 2009



November 2009



May 2010

# Results

1.) Successful PPP project in district heating system domain in Slovakia

2.) Grants



+

85%

15%

**100% subventions**

3.) Decrease of 2.200 t of CO<sub>2</sub>/year  
+ creation of 20 new jobs



Inauguration of the boiler for the biomass on 10<sup>th</sup> June 2010

Ms. J.E. Trine Skymoem – Ambassador of the Norway

Mr. Tibor Toth – Mayor of the city Vrable

Mr. J.M. Mazalerat - Dalkia Central Europe CEO