



Imatran Lämpö

S3UNICA
Interreg Europe



Vesa-Pekka Vainikka
CEO of Imatran Lämpö Oy

**Environmental friendly heat
-with most modern technique**

Imatra

- A small town with opportunities of a city

Population 27 512 (2016), Surface area 191,6 km² , Aquatic territory 36,3 km²

Nature

- Lake Saimaa
- River Vuoksi
- Imatrankoski rapids

Active lifestyle

- Sports, training, mass events inc. European IRRC motorcycle race
- Training centres for football (outdoor & indoor), ice hockey, cross country skiing, biathlon and track field
- Culture, architectural treasures
- Spa and hotel culture

Industry, trade and logistics

- Imatrankoski, the largest hydropower station in Finland
- Stora Enso paper mills
- Ovako steel
- Border logistics and trade

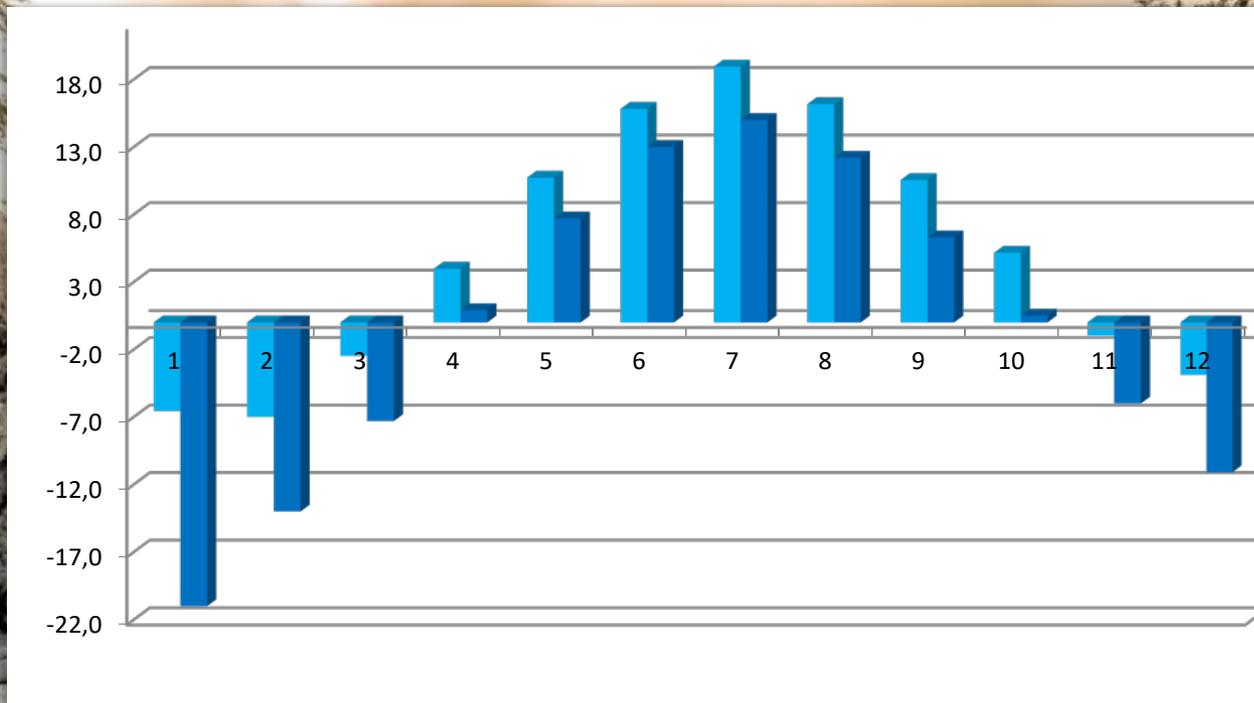
More info:
www.imatrabasecamp.com
www.imatra.fi



Heat is needed!

Average monthly temperatures 1987-2016

Light blue: 25 years average monthly temperature in Imatra
Dark blue: the coldest average monthly temperature in Imatra



Imatran Lämpö Oy

- Limited Company owned by Imatra city since Jan 1, 2014 (prior to corporisation a department in city administration)
- District heat and natural gas supply in all conditions
- Maintains, designs ja constructs DH production plants and DH networks as well as gas distribution network.
- Operates in fully competitive and opean heating market

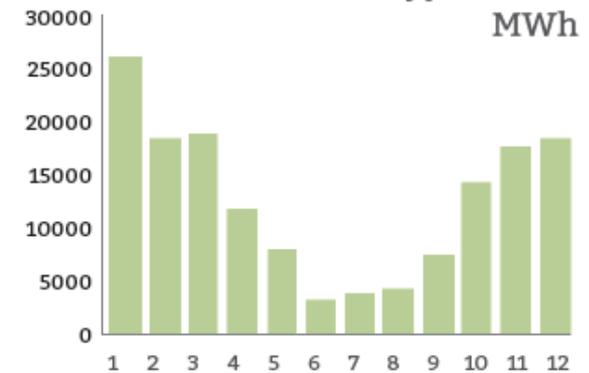
Key figures y 2019

- District Heat 9,7 M€ (153 GWh)
- Natural gas 2,5 M€ (33 GWh)
- Energy sales (DH+G) 12,2 M€
- Turnover 12,8 M€
- Profit before corp. tax 2,11 M€
- Profit after corporate tax 1,68 M€
- Positive result ensures the company's continued development and reasonable and competitive pricing for clients

Other figures

- **58 % of residents in Imatra** are clients of Imatran Lämpö Oy
- Total length of DH network 87 km (trench)
- 724 DH customers
- Total length of gas distribution network 63 km
- 239 natural gas customers
- Peak heat load (measured in Jan 2016) 60 MW (effect)
- Personnell 11+1

District Heat sales MWh

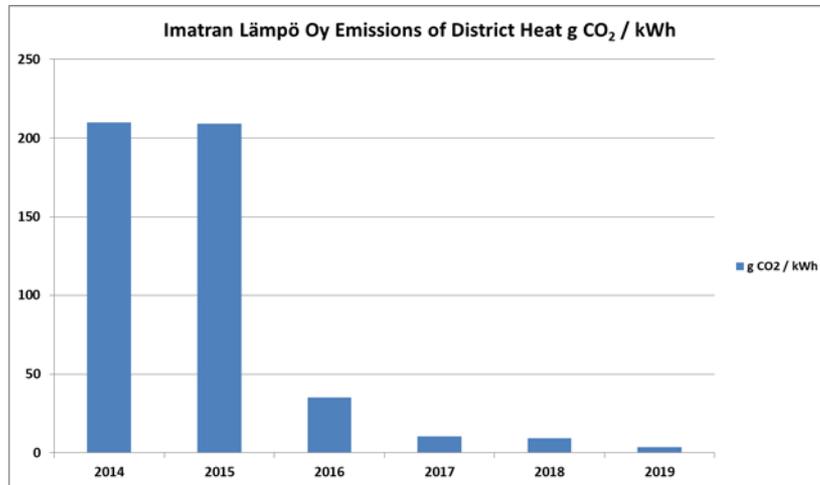


Natural gas sales MWh



From 100% natural gas to 96% RES in four years

CO₂-emissions from the DH supply, g CO₂/kWh



District heat price reduction year 2016:

- Energy charge - 23,6%.
- Total heat price (incl. capacity charges) reduction 20% - 22%.

Imatran Lämpö Oy average DH price

78,2 €/MWh (incl. vat 24 %), 63,1 €/MWh (vat 0%)

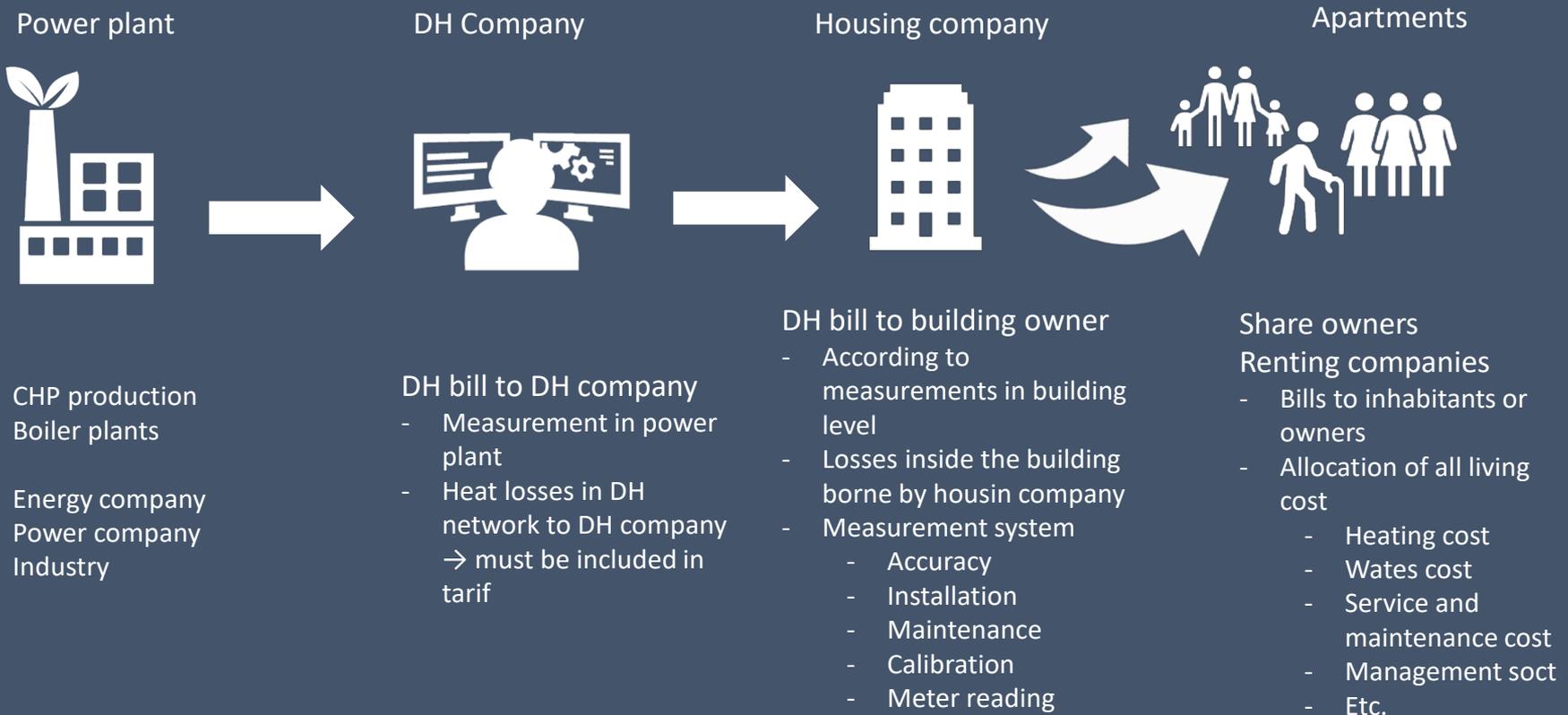
Two tier tariff €/MWh

- Energy charge €/MWh: 67,1 (vat 24%), 54,2 (vat 0%)
- Capacity charge €/MWh: 11,1 (vat 24%), 8,9 (vat 0%)

Three new biofuel boilers and DH transmission line (6,3 km) - project started year 2014, Investment cost 24 million eur
 Fuel: Side products from forest industry (bark), wood chips and forest residues. Heat boilers are remote operated and unmanned.



Responsibilities of Different Operators in DH System



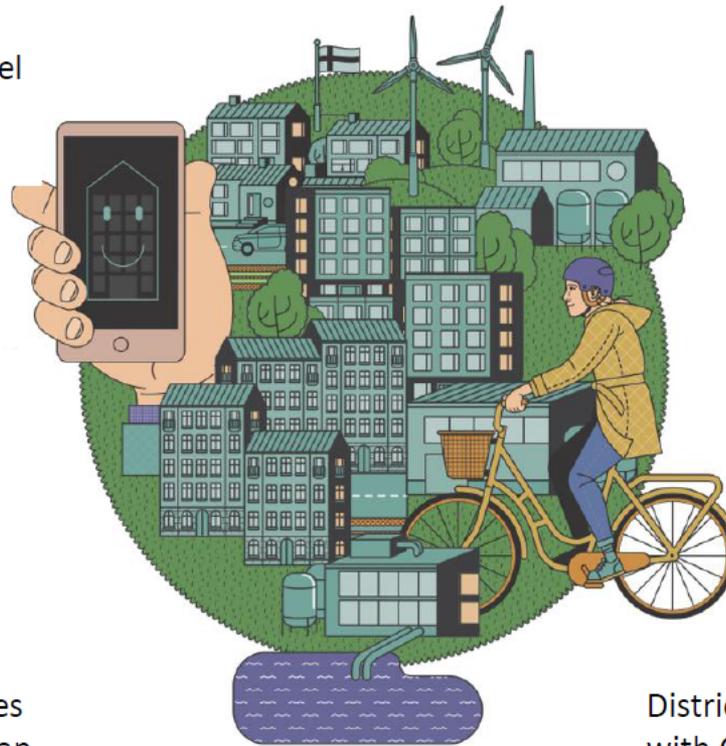
Key-Advantages of District Heating

Most economical and environmentally benign fuel and manner of production can be used

Efficient air-pollution control is possible → low emissions

Flexibility for fuel changes, possibility to optimize fuel mix

Different sources of waste heat can be utilized



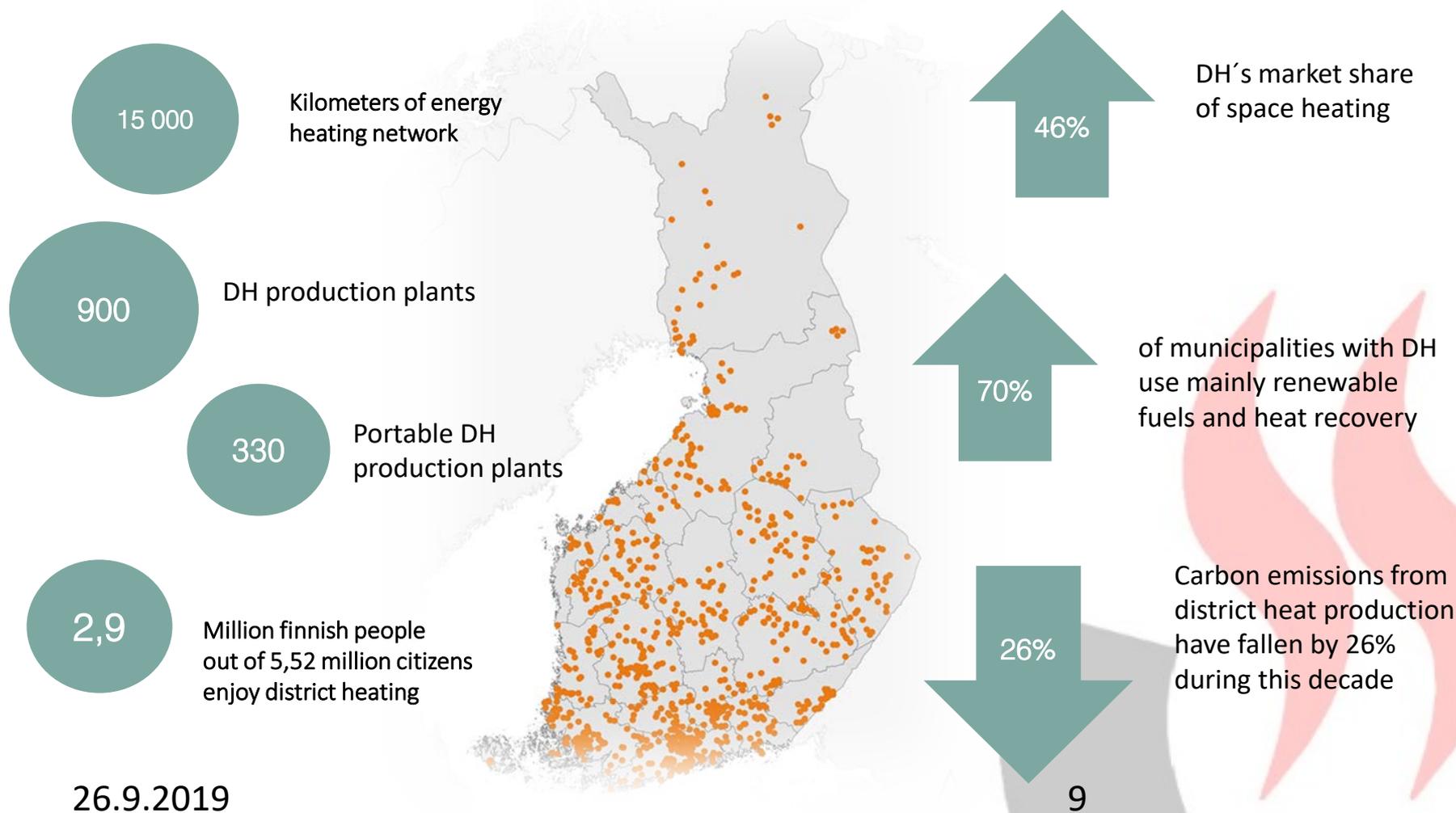
Small space requirement and safe operation

Easy to control and operate for the consumer – high quality and flexible heat supply service

Affordable cost and long term price stability

District Heating is together with Combined Heat and Power the most energy efficient way of heating

Part of national safety system



Thank you!



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Imatran Lämpö

More info about us:

www.imatranlampo.fi

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[Year book 2019](#)