

EXPRESS

Heat Entrepreneurship - A Finnish Success Story and community-based tool against energy poverty

EXPRESS Study Tour in Joensuu 27.-28.6.2023

Background information – Courtesy of Jim Antturi / Työtehoseura - TTS

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27.06.2023 | EXPRESS Study Tour

Business concept:

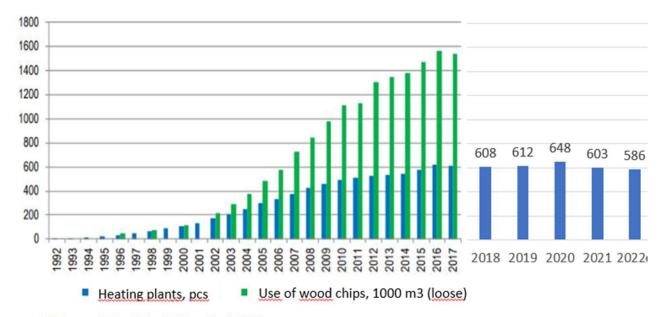
Heat Entrepreneur sells and delivers heat as a service.

Manages the whole process: fuel supply, heat production and heat delivery.

Typically investor and owner of heating plant and district heat network.

Number of heat entrepreneurship is stabilizing

Number of heating plants operated by heat entrepreneurs and the use of wood chips 1992-2017 (1000 m3-l)



About 600 heating plants and

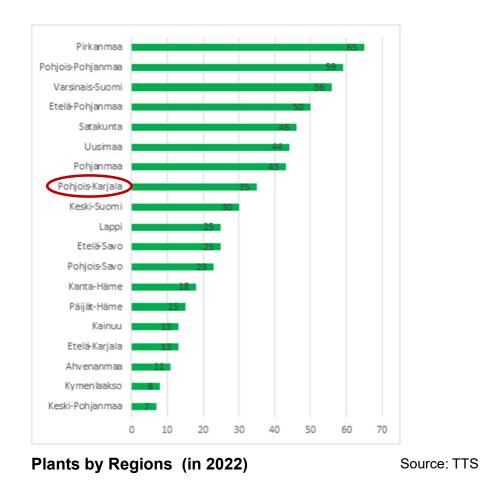
250 entrepreneurs

- Quitted: usually smallest units, retirement, no more need for heating, eg. closures of (public) buildings - especially in country side
- New plants & entrepreneurs: outsourcing, new buildings – businesses – residental areas

SOURCE: Työtehoseura, Lämpöyrittäjyys Suomessa -hanke, 2017

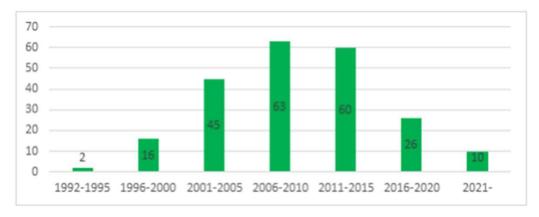
Plants located around Finland

- West Coast & North Karelia hotspots



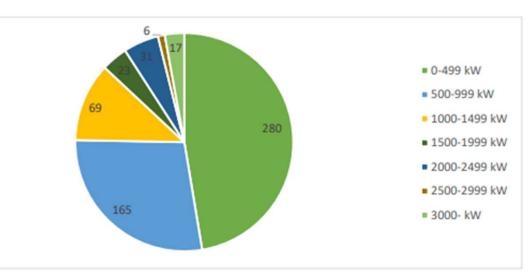
Ruotsi Viro Latvia Liettua Tanska

Boilers



Distribution by boiler age

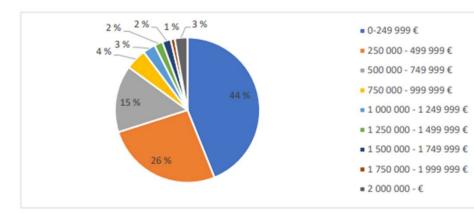
Half of the boilers < 0,5 MW



Distribution by capacity, solid fuel boilers (kW)

Source: TTS

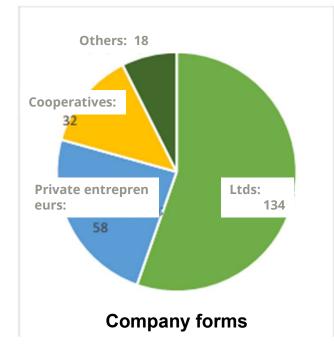
Business in nutshell (n = 106)



Distribution by annual turnover, €



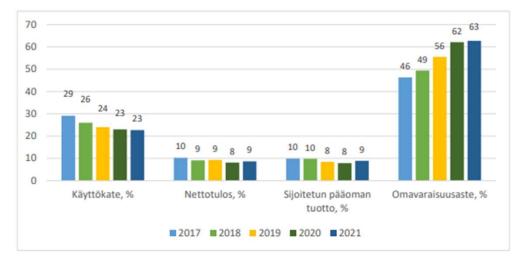
Averige (median) turnover and EBIT, €



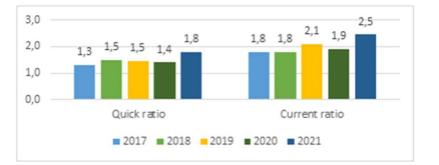


SLIDE 7

Nice solid business (n = 106)



Operating profit, net profit, ROI and equity ratio (medians, by order)



Quick ratio & current ratio (medians)

Source: TTS

Survey by TTS (Työtehoseura) in 2022 (preliminary results)

42 entrepreneurs interviewed

- Average history as heat entrepreneur 13 years
- Mean age: 53 years
- "Do You supect acting as heat entreprneur during next 3-5 years?"
 - 81% "YES", 19% "NO"
- "How do You forecast Your business to develop during next 3-5 years?"
 - 47% "GROW", 50% "STAY", 3% "DIMINISH"
- "How do You suspect the Heat Entrepreneur Business to develop in general?"
 - Diverse anwers regarding to the growth of business: operational environment has changed rapidly, hard to predict, big differences between regions...
 - Reductions to combustion, increased use of heat pumps / geothermal heating?
 - Hybrid systems and new options: biogas, solar heat & electricity and biocoal