

**ICP Solutions OÜ
Presentation
2017**



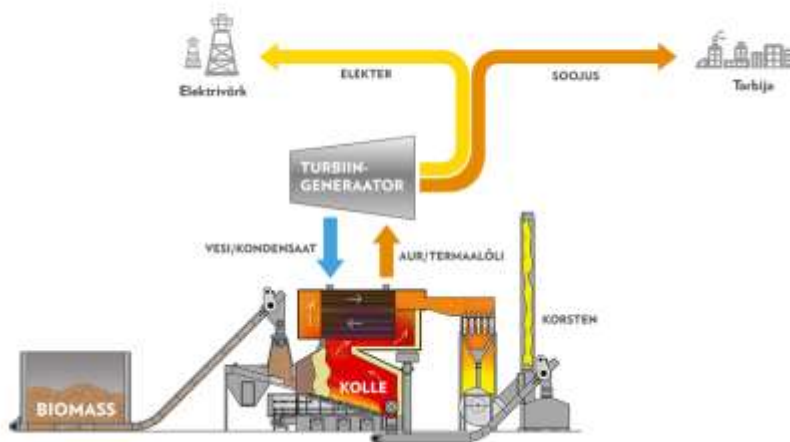
What we offer to our customers



- Energy solutions for industrial clients (we consult, install and service):
 - *Industrial cooling, heat recovery and heatpump solutions,*
 - *CHP solutions on natural or biogas,*
 - *Biogas production solutions for Industrial and agricultural plants, anaerobic wastewater cleaning solutions*
 - *Woodchip boilerhouses for steam , hot water and CHP solutions,*
 - *We service all the equipment what we offer!*

What we offer to our customers

Woodchips

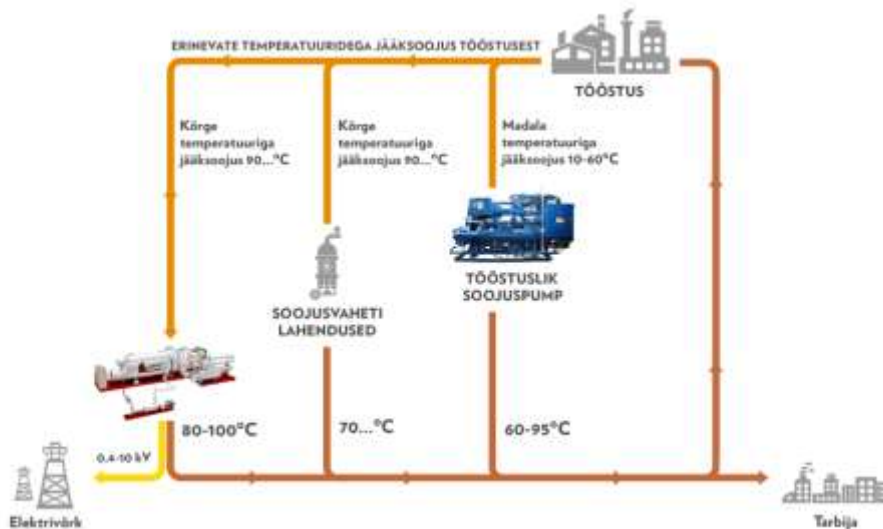


Solutions

- Combined heat and power plants based on biomass (woodchips, straw, waste wood, bark)
- Boilerhouses working on biomass, producing hot water and steam.

What we offer to our customers

Heat recovery

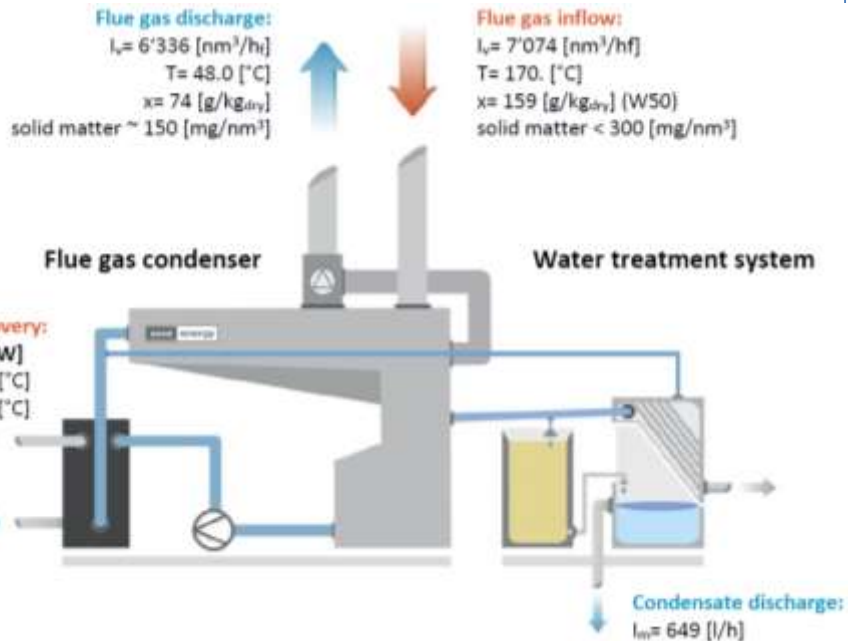


Solutions

- Heat recovery systems for existing natural gas or woodchip boilerhouses using flue gas condensers or economizers.
- Heat recovery systems for high temperature waste heat, for producing electricity with ORC turbine.
- Heat recovery solutions with industrial heat pumps.

What we offer to our customers

Heat recovery

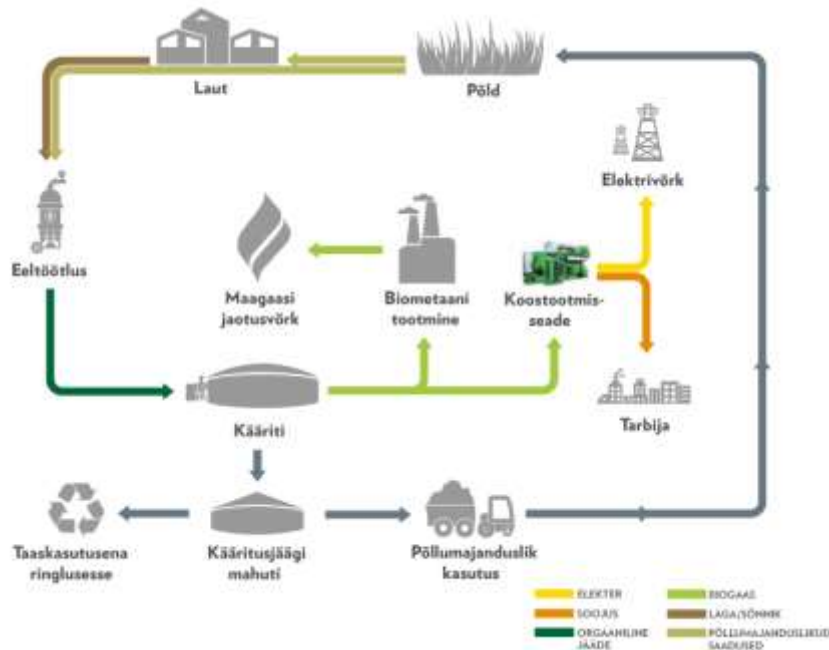


Solutions

- Heat recovery systems for existing woodchip boilerhouses using flue gas condensers.
- Existing plant with 3,0 MW of power and recovering **770 kW!**

What we offer to our customers

Biogas



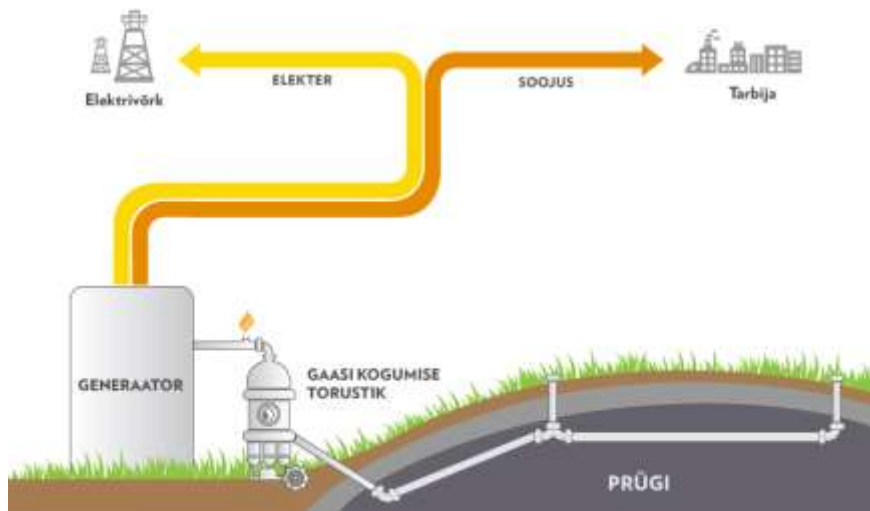
Solutions

- Biogas cleaning systems for biogas plants.
- Combined heat and power plants working on biogas/natural gas.
- Biomethane upgrading systems for biogas plants

What we offer to our customers



Landfill gas

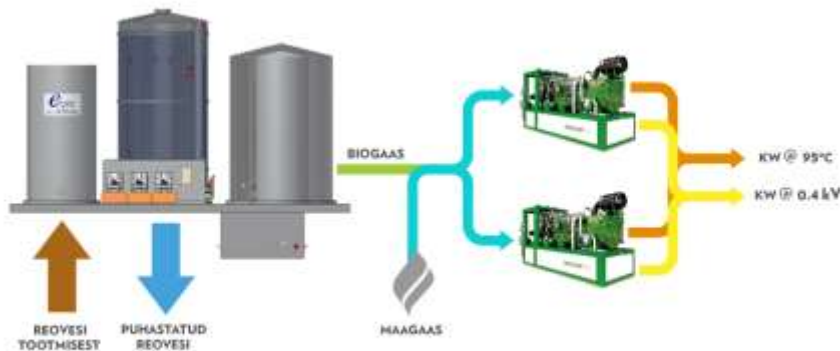


Solutions

- Landfill gas collecting and cleaning systems,
- Combined heat and power plants working on biogas/natural gas.
- Biomethane upgrading systems for biogas plants

What we offer to our customers

Industrial waste water solutions



Solutions

- Anaerobic wastewater cleaning systems for industries.
- Waste water cleaning by-product is biogas which can be used for energy purposes!

What we offer to our customers



Housing for our systems



Solutions

- Containerizing different solutions.
- Concrete and sandwich panel solutions.
- All required preparation works for our solutions.

Some references



- CHP plant based on woodchips, 1 MWeI and 4,2 MW thermal power. ROI of this project 6 years!



Some references

- 4 MW hot water Boilerplant based on bark.
ROI of this project is 5 years



Some references

- 2 MW steam Boilerplant based on woodchips. Installation to existing boilerhouse. ROI of this project 4 years!



Some references



- Landfill gas CHP plant 2x150 kWel and 2x179 kWth power. ROI of this project was 3 years.



Some references

- Containerized and in boiler-room heat pump solutions. Usual ROI of the project is about 2 years.



Some references

- Heat recovery systems for natural gas boilerhouses. Usual ROI of the project 2-3 years.



Some references

- Heat recovery systems for wood chip boilerhouses. Usual ROI of the project 2-3 years.



Some references

Biogas plant and biogas upgrading to CNG





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Thank You for your attention!!!!