



## **Frush – Envitech Network**

Pasi Kaskinen, 18.9.2019





# Specialised waste management know-how

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# LHJ Group

- Municipal Solid Waste Management
- Waste Management Services
- WEEE Recycling
- Contaminated Soil Treatment
- Waste Incinerator Bottom Ash Treatment
- Data Destruction of Confidential Materials

## LHJ Group in numbers

1995

established

400 000 t

processed every year

95

circular economy experts

28 M€

turnover



# LHJ Group brands

Loimi-Hämeen Jätehuolto Oy



Municipalities,  
Households

LHJ Group



Suomen Materiaalikierrätys Oy  
Suomen Tietoturva Oy  
Cool Finland Oy

B-to-B services  
WEEE, Metals, Data destruction

Suomen Erityisjäte Oy



SUOMEN  
ERITYISJÄTE

Contaminated soil, Hazardous  
waste, Waste incinerator bottom ash

# LHJ Municipal Waste Management

- MSW services in 16 owner municipalities
- 135 000 inhabitants
- Treatment of municipal solid waste
- 9 Waste stations
- 200 Regional collection points for recyclables
- Hazardous waste collection for households
- Volume 50 000 tonnes annually

**Utilization rate 2018 ~  
100 %** - Only 83 tonnes were landfilled



The image shows two men in industrial safety gear (orange high-visibility vests with reflective stripes and blue hard hats) standing in front of a large pile of scrap metal and WEEE (Waste Electrical and Electronic Equipment). They are both smiling and looking towards the camera. The background is a clear blue sky with some clouds. The overall scene is bright and sunny.

# WEEE and scrap metal

Office appliances | Small and large domestic appliances | Refrigerator and freezers |  
Information and communication technology systems | Industrial hardware | Metal scrap

# Cool Finland Oy

- Leading recycler of refrigeration appliances in Finland
- Climate friendly recycling
  - The process separates both CFC's and more recent cooling agents with global warming potential
  - Part of the production is carried out with own solar electricity production
- Utilization rate close to 100 %
  - PS, PU, Fe, Al/Cu, glass, oil





# Data security

Paper | Electronical data carriers | WEEE | Product destruction | Pirate products | Other material





SCANWAS BET1/5



SCANWAS BET4/12



SCANWAS INFRA0/2



SCANWAS INFRA0/32

# Final Disposal

An aerial photograph of a large industrial waste management facility. The site is divided into several distinct areas. On the left, there is a dense forest. In the center, there are several large industrial buildings, including a prominent red-roofed structure, and a parking lot filled with vehicles. To the right, there are large, open areas of land, some of which appear to be active landfills or storage sites for waste. A winding road or path cuts through the site. In the background, there are more industrial structures and a large body of water, possibly a reservoir or a lake. The overall scene depicts a complex and active site for waste disposal and management.

LHJ municipal waste landfill

Suomen Erityisjäte Oy landfill for inert waste | Hazardous waste landfill

# LHJ Group Raw Materials for Circular Economy

- **Metals: Fe | Cu | Al | Printed Circuit Boards | Cables | Metal Containing Fractions from WEEE Treatment**
- **Plastics: PU | PS | ABS | PE films | Other**
- **Scanwas: Artificial Stone Material** (minerals from waste incinerator bottom ash treatment)
- **Glass**
- **Paper | Cardboard**
- **Municipal Solid Waste**
- **Waste wood**
- **Recovered Fuel (REF)**

yhteys ympäristöön  
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**Thank you for  
your interest**

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