





Founded 990 AD

125 000 inhabitants

Growing population: +40% since 1990

University >40 000 students

Target: -50% CO₂-eq 1990-2020 (reached 2018)



Lund, Sweden

Population: >125.000 Population density: 290/km²

Economic activities

Service Sector

University

High Tech Industries



Lund Cleansing Department

- A department of the municipality since 1892
- Financed by rates
- Where the "Quattro select bin" system for single households was born
- Fossil-free transportation
- Collected waste transported to treatment facility (SYSAV)



Quattro select bin system

- 2 bins with 4 compartments each for single family households. 8 fractions:
 - food waste, residual waste, cardboard, paper, plastic, metal, coloured glass, clear glass
- Paper bag for food waste supplied
- Collection:
 - Bin 1: every second week
 - Bin 2: every fourth week
- First as a pilot project in 2001
- 5-10 years to implement the new collection system in the entire municipality.







Other collection systems

- Multi family areas:
 - Single bins of different sizes
 - Underground Waste System
 - 8 fractions
 - Underground vacuum system planned
 - 4 fractions





Waste treatment

- 16 km to SYSAV in Malmö
- SYSAV is owned by Lund and 13 other municipalities
- Food waste pre-treatment
 - 70% Slurry to biogas
 - Biofertilizer to farmland
 - 30% Press cake to incineration
- Residual waste incinerated (CHP)





Lund: Biogas learning

- Biogas an important story
 - Circular economy
 - Used in city busses and waste trucks
 - Tax exemption
- Biofertilizer
 - Good quality certification
 - Sold as fertilizer
 - Transport expensive
 - Many ongoing tests to concentrate nutrients

> Lund: Waste Management in figures

- Currently 63-75% of food waste is collected separately
 - 95-98% purity
- Collection:
 - Single households: every second week
 - Multi family: every week
 - HORECA: 1-6 times per week
- 140 ton/week food waste collected
- Park and garden waste collected separately
- Total collection: 1100 ton/week

Thanks for your attention. Any question?









































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