Source sorting of food waste in the south of Sweden

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www.sysav.se
Sysav

- Founded 1974
- Owned by 14 municipalities
- 283 employees (2014)
- Turnover 818 million SEK (2014)
Vision

Sysav contributes to create the world’s most sustainable region, for current and future generations
The Sysav region

- 14 municipalities in the south of Skåne, the most southern region in Sweden
- 720,000 inhabitants
- Burlöv Kävlinge Lomma Lund Malmö Simrishamn Sjöbo Skurup Staffanstorp Svedala Tomelilla Trelleborg Vellinge Ystad

November 23, 2015 / bild 4
Pre-treatment plant for food waste

- Solid food waste sorted at source
- Pre-packed liquid food waste
- Liquid food waste from tankers

Capacity:
36 000 tonnes of food waste treated in 2014

Result:
A slurry for further processing in a biogas plant
A reject for energy recovery (heat & electricity)
Waste to energy

- 1,40 TWh (2014) of heat, enough to supply heat for 100,000 family homes.

- 255 GWh (2014) of electricity, the equivalent of electricity produced by 50 wind power plants or 1/60 of the production from one nuclear reactor.

Corresponds to 60 percent of the district heating demand of the municipalities of Malmö and Burlöv.
National goal for food waste

50 % of the food waste from households, larger kitchens, grocery stores and restaurants (potential 109 kg/inhabitant and year) will be recycled as biofertilizer in 2018.

For 40 % of the food waste, a technique that also provides energy recovery by production of biogas, should be chosen.

The Sysav-region is today recycling 40 % of the food waste in the region as biofertilizer and biogas.
The eco-cycle does not have a beginning or an end, but let us start in the grocery store.
At home in the kitchen we store, prepare, cook, eat and sort out food waste

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Sorting instructions for food waste – how do we communicate that quality is important? The collection system - quality control
Reloading, receiving, quality control
Pretreatment of food waste
After anaerobic digestion we get 2 products
Biogas replaces petrol and diesel
Biofertiliser replaces commercial fertiliser
The eco-cycle does not have a beginning or an end, but let us stop here in the grocery store.