

# Rural and urban biowaste valorisation: a list of feedstocks, technologies, and manufacturing chains

J.W.A. Langeveld

*Biomass Research, Costerweg 1D, 6700 AE Wageningen, the Netherlands.*

**Copyright:** 2021 Langeveld J.W.A. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

## Abstract

Bioenergy should be an important and integrated part of carbon-reduction measures, according to the IPCC; bioenergy use will be significant in 1.5°C scenarios due to its role in decarbonizing energy usage. Bioresidues and biobased materials could be used to generate renewable energy and materials. The use of garbage from cities and rural areas as feedstock for bioeconomy industrial chains will help.

Low urban and food waste recycling rates and high costs for waste collection, handling and conversion are some of the barriers that hinder development successful waste-conversion chains. This presentation discusses availability of organic waste streams from forestry, agriculture and urban centres in the Netherlands and various countries in Europe. Results of recent projects that describe options for the valorisation of urban waste in dedicated biobased production chains (feedstocks, biorefineries, potential end-products) using the urban metabolism analytical framework will be presented. Special attention is given to logistic concepts including bio-hubs

## Biography:

Hans is a former owner and Managing Partner of a national premier league boutique and has led

the Dutch office of Korn/Ferry International being responsible for its European Advanced Technology Practice. Prior to this, Hans was a Board Member at KPN Telecom NV and CEO of the Business Market Division with more than 3,000 personnel where under his leadership, a large reorganisation was carried out. While at KPN, Hans was a member of the Corporate Accounts Group, responsible for large contracts in the government area, and was a key player in creating the global AT&T/Unisource joint venture.

## Publications:

1. Structural Break and Causal Analyses of U.S. Corn Use for Ethanol and Other Corn Market Variables.
2. Variable demand as a means to more sustainable biofuels and biobased materials.
3. Development perspectives for the bio-based economy.

**Citation:** J.W.A. Langeveld Biomass Research, Costerweg 1D, 6700 AE Wageningen, the Netherlands, SP, Valorisation of rural and urban biowaste: an inventory of feedstocks, technologies and production chains. 1st International conference on Internal Medicine and Primary Care, Oct 22-23, 2021 at Paris, France