

Ministry of Foreign Affairs of the  
Netherlands



# Integrated Waste Management

Case Study  
The Netherlands





# From Linear to Circular Economy

Chain economy

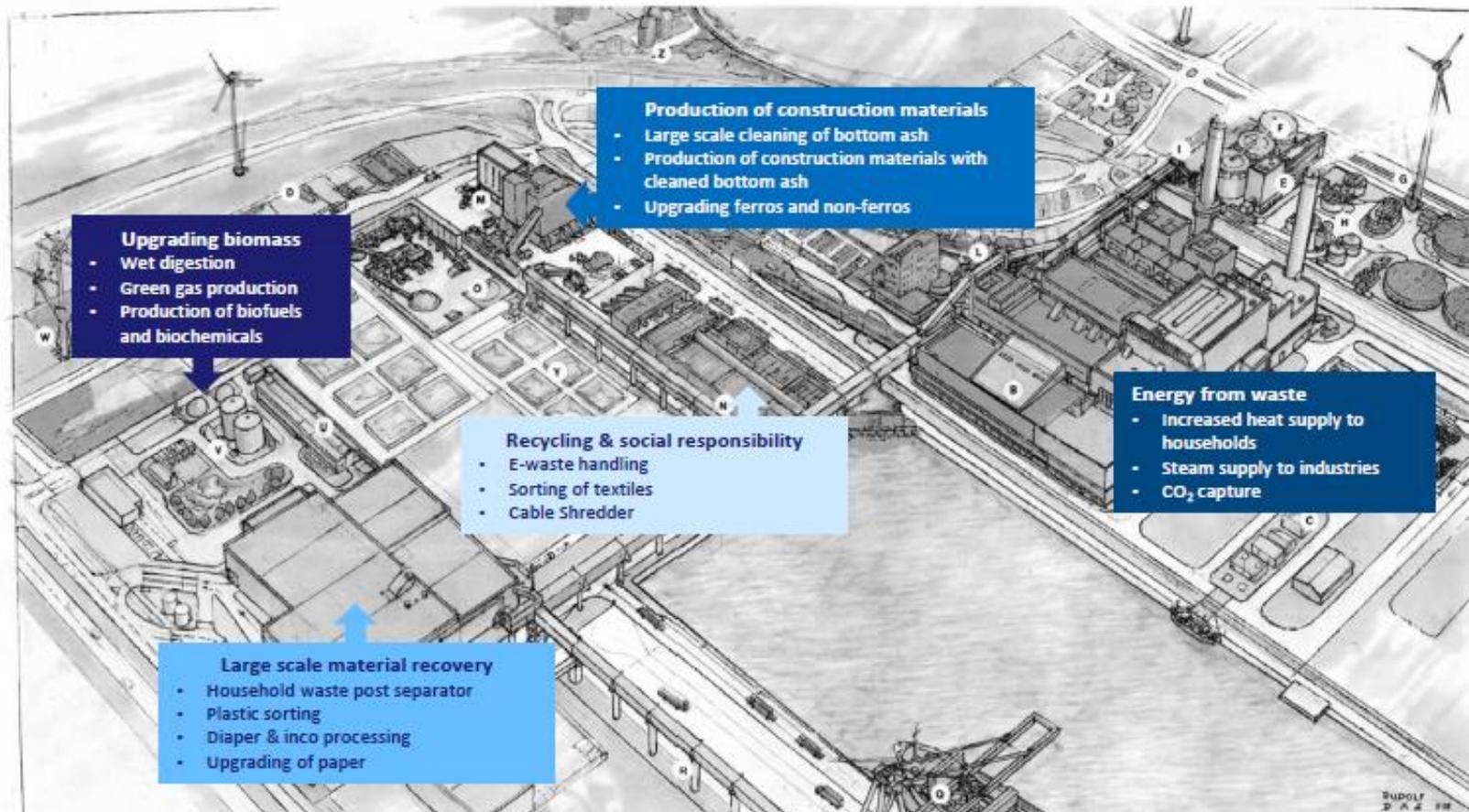


Circular economy





# Amsterdam Municipality-





# Integration of Energy, Waste & Water



**Sludge (90.000 ton/y)**  
**Biogas (10 M Nm<sup>3</sup>/y)**



**Electricity (20.000 MWh/y)**  
**Heat (50.700 GJ/y)**

**District Heating**  
**(70.000 GJ/y)**





# Production of Green Gas fuel for 171 Waternet Cars



**Green Gas**



**CO2 reduction  
and Particulate  
Matter**



**Improved Air  
Quality**



## From Residues to Products

- Bottom-ash
- Joint R&D with TU Delft
- Metal Recovery

**Large contribution to sustainable goals of Amsterdam**



# Thank You!

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