

Ministry of Foreign Affairs of the
Netherlands



Integrated Waste Management

Case Study
The Netherlands





From Linear to Circular Economy

Chain economy



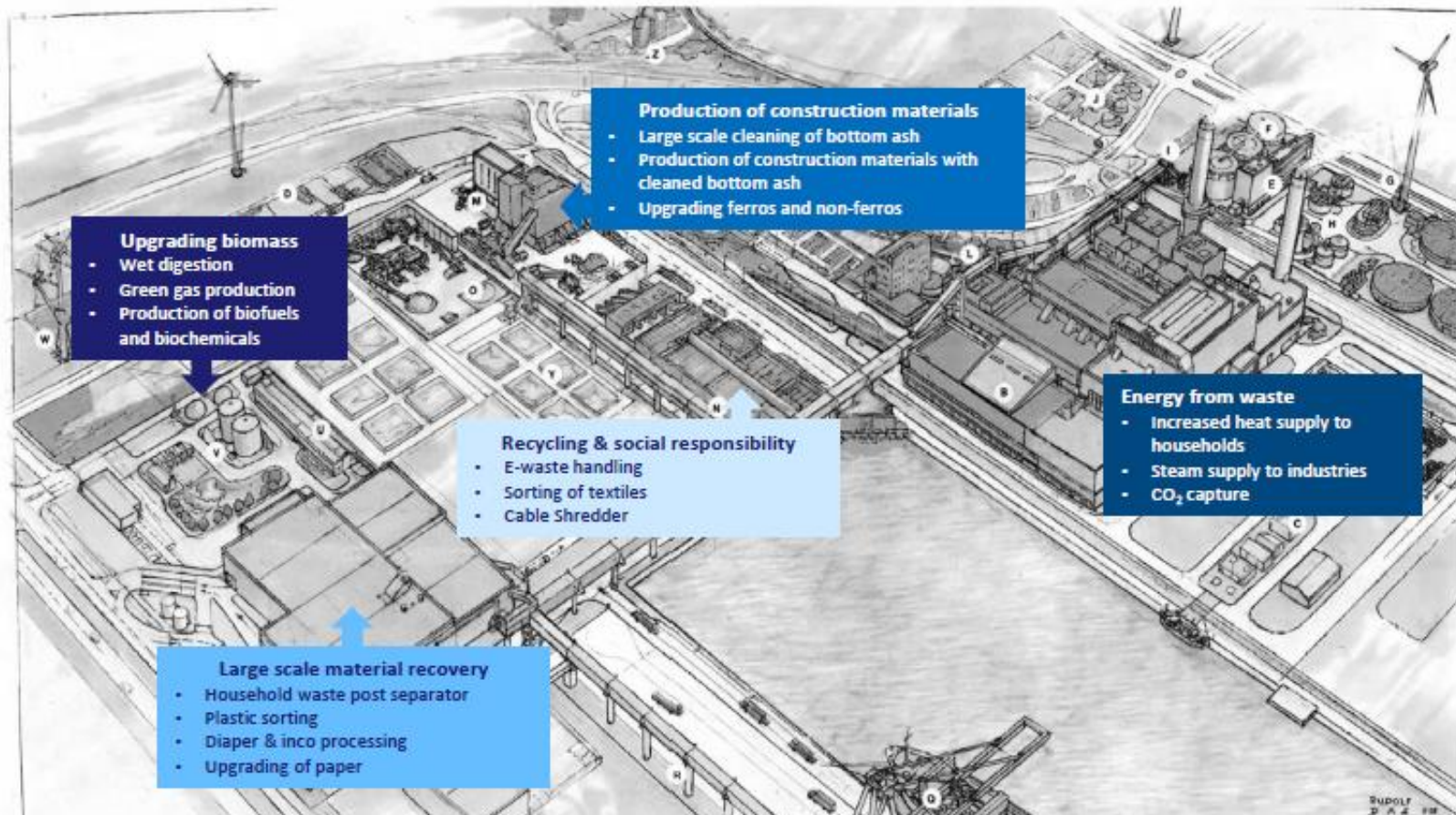
Circular economy



From waste to resources



Amsterdam Municipality-





Integration of Energy, Waste & Water



Sludge (90.000 ton/y)
Biogas (10 M Nm³/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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