

Presentation for KIVI International Engineers
"Sustainable materials and energy from sewage sludge"
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Water treatment plants in The Netherlands have defined the initiative "Energie en Grondstoffen Fabriek" ("Energy and Materials Factory") which forms the transition of water treatment plants towards more efficient energy use and recycling and reuse of materials. The Dutch Water Authorities produce 1,3 million tons of sewage sludge each year (sewage sludge is a waste stream from water treatment) and estimations of processing costs of this sludge range between 115-250 million euro per year.

ECN joined forces with Waterschap Zuiderzeeland, Paques and STOWA and initiated the EnCore project that aims at utilizing sewage sludge in a more (cost-)efficient way. The project explores the potential to produce more biogas (green energy) and to recover materials from sewage sludge leading to significantly reduced processing costs.