



<b>Location</b>	Well, the Netherlands
<b>Waste type</b>	By-products from food industry
<b>Reactor volume</b>	3x 3,600 m <sup>3</sup>
<b>Electrical capacity</b>	2,387 kW <sub>e</sub>
<b>Green gas capacity</b>	300 Nm <sup>3</sup> /hour
<b>Startup</b>	December 2006
<b>Client</b>	EcoFuels BV.

EcoFuels is an initiative of 'Laarakker Groentenverwerking' and 'Delta Milieu Compost & Biomassa'. The company is located in Well (the Netherlands) and produces green energy by means of anaerobic digestion. By-products from the food industry are transformed in renewable electricity (since 2006) and renewable natural gas (since 2011).

Since 2008, OWS is involved with the biological monitoring of this AD-plant. At that moment, the digestion process was suboptimal: the presence of large amounts of volatile fatty acids (VFA) prevented an increase of the loading rate, remaining far below the target values of this plant. In close cooperation with the client, OWS installed a threefold solution to optimize the process. At first the loading rate was decreased drastically to reduce the VFA. At the same time, inhibiting factors were eliminated and the composition of the input mix was optimized. Because of these steps the process became stable and after only a few months the target values with regard to organic loading rate and biogas production were reached. Since then, OWS has been acting as an external consultant and together with the client the biological well-being of this plant is our first concern.