

Plans for the former abattoir at Waen



BACKGROUND

Denbighshire County Council acquired the former abattoir site on Holywell Road, Waen in May 2009. Money to purchase the site was provided by the Welsh Government as part of its policy to assist local authorities in preparing for the statutory separate collection and recycling of food waste from local households, which is due to come into force from April 2012.

The Welsh Government has stated that its preferred recycling route for waste food is via anaerobic digestion and Denbighshire County Council, along with Flintshire County Council and Conwy County Borough Council have set up the NE Wales Hub to find a suitable partner to treat food waste from North East Wales.

After a two-year tendering process, organic waste specialist TEG Environmental and energy company Alkane Energy have been selected as the Preferred Bidder for this project.

TEG will be responsible for building and operating the Anaerobic Digestion plant and Alkane will be responsible for the energy generation. TEG is now preparing to submit planning and environmental permit applications for the plant.

ABOUT TEG AND ALKANE

TEG Environmental is a technology company specialising in treating organic waste food, i.e. food and garden waste. It does this by composting and also by Anaerobic Digestion (AD).

Alkane Energy is a clean tech 'gas to power' energy company that uses methane as a fuel for energy generation.

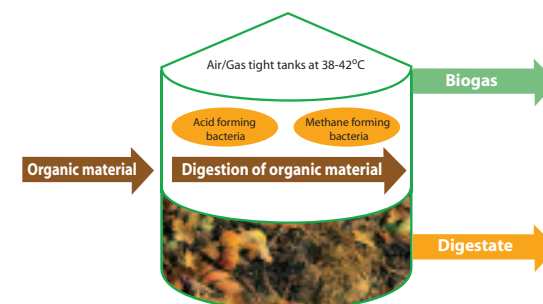
TEG has 14 facilities operational in the UK and Alkane has 12 facilities. The companies currently have one joint venture facility, an AD plant in Perth, Scotland, which is currently being commissioned.



WHAT IS ANAEROBIC DIGESTION (AD)?

AD is a natural process that breaks down food waste to create a biogas that can be used to provide renewable power and digestate that can be used as a fertiliser.

The technology involved is similar to the digestive processes of a cow's stomach. Organic matter (food waste) is put into a sealed digestion tank, where it is mixed to encourage micro organisms to digest the waste into a sludge and fluid. During this process methane and carbon dioxide known as biogas is released from the fluid. The biogas is piped to generators to produce power and the residual matter, known as digestate, is used as fertiliser.

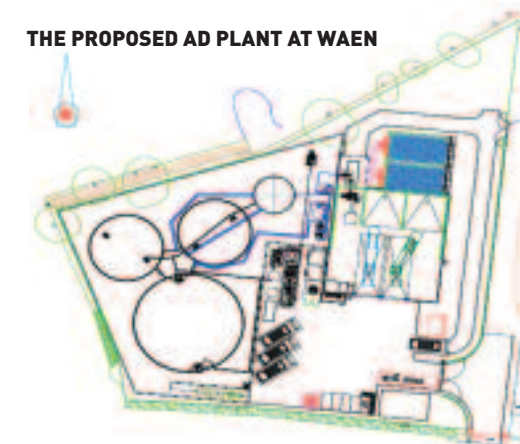


OUR PLANS FOR THE WAEN SITE

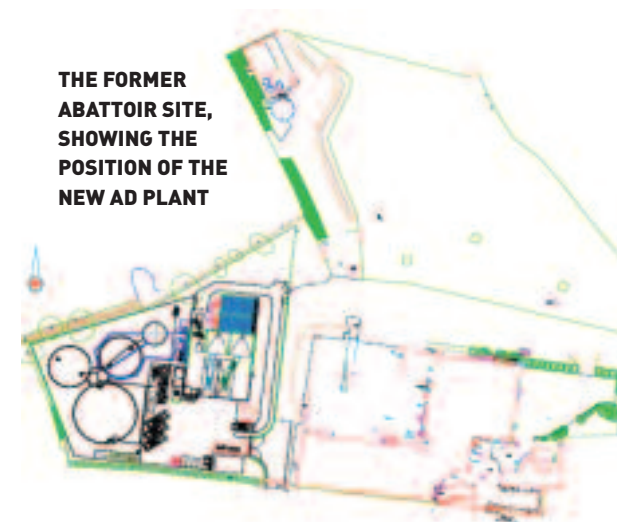
- £7.5m facility
- Serving Denbighshire, Flintshire and Conwy
- Capacity to process 20,000 tonnes of food waste a year.

Process will generate up to 1MW of power – enough to power the plant and around 2,000 homes – and up to 20,000 tonnes of liquid fertiliser, which will be quality approved (PAS110QP) for agricultural purposes.

THE PROPOSED AD PLANT AT WAEN



THE FORMER ABATTOIR SITE, SHOWING THE POSITION OF THE NEW AD PLANT



TIMELINES

Planning and Permit applications submitted by December 2011

Plans/permits achieved by April 2012

Construction starts in May 2012

Construction completed by March 2013

Plant processing all Council food waste by September 2013

WANT TO KNOW MORE?

Visit our website: www.theteggroup.plc.uk

Call us on 01772 644980

E-mail: sam@theteggroup.plc.uk

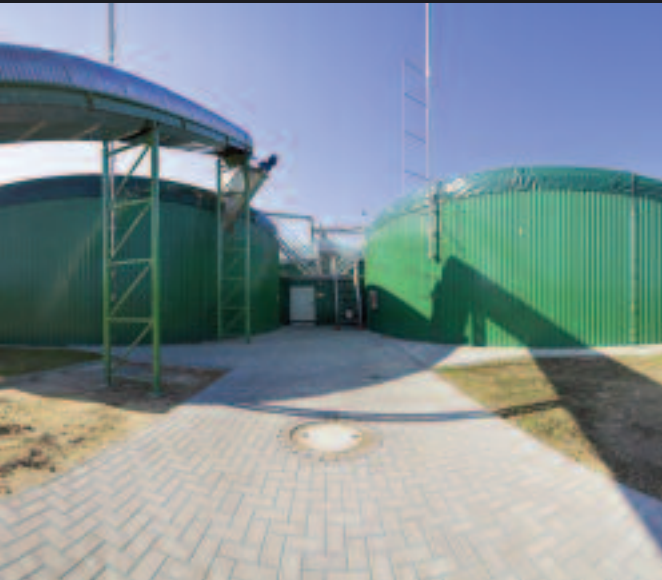
The TEG Group plc

Westmarch House, 42 Eaton Avenue, Buckshaw

Village, Chorley, Lancs PR7 7NA.



Cynlluniau ar gyfer yr hen Ladd-dy yn Waen



CEFNDIR

Prynodd Cyngor Sir Ddinbych safle'r hen ladd-dy ar Ffordd Treffynnon, Waen ym mis Mai 2009. Cafwyd arian i brynu'r safle gan Lywodraeth Cymru fel rhan o'i pholisi i gynorthwyo awdurdodau lleol i baratoi ar gyfer casgliadau statudol ar wahân ac ailgylchu gwastraff bwyd o gartrefi lleol, a ddaw i rym o fis Ebrill 2012.

Dyweddodd Llywodraeth Cymru mai'r dull a ffafrir ganddi ar gyfer ailgylchu bwyd gwastraff yw treulio anerobig ac mae Cyngor Sir Ddinbych, ar y cyd â Chyngor Sir y Fflint a Chyngor Bwrdeistref Sirol Conwy wedi sefydlu Canolbwynt Gogledd Ddwyrain Cymru i ganfod partner addas i drin gwastraff bwyd o Ogledd Ddwyrain Cymru.

Ar ôl proses dendro a gymerodd ddwy flynedd, detholwyd yr arbenigwr gwastraff organig TEG Environmental a'r cwmni ynni Alkane Energy fel Cynigydd a Ffafrir ar gyfer y prosiect.

TEG fydd yn gyfrifol am adeiladu a gweithredu'r safle Treulio Anaerobig ac Alkane fydd y Deyrnas Unedig gynhyrchu ynni. Mae TEG yn awr yn paratoi i gyflwyno ceisiadau cynllunio ac amgylcheddol ar gyfer y safle.

AM TEG AC ALKANE

Mae TEG Environmental yn gwmni technoleg sy'n arbenigo mewn trin gwastraff bwyd organig, h.y. gwastraff bwyd a gerddi. Mae'n gwneud hyn drwy gompostio a hefyd drwy Dreulio Anaerobig.

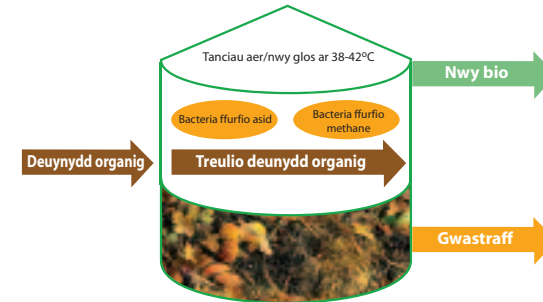
Mae gan TEG 15 safle yn gweithredu yn y Deyrnas Unedig ac mae gan Alkane 12 safle. Mae gan y cwmnïau un safle ar y cyd ar hyn o bryd, safle Treulio Anaerobig yn Perth, yr Alban, sy'n cael ei gomisiynu ar hyn o bryd.



BETH YW TREULIO ANAEROBIG?

Mae treulio anaerobig yn broses naturiol sy'n torri gwastraff bwyd i lawr i greu bio-nwy y medrir ei ddefnyddio i ddarparu pŵer adnewyddadwy a gwastraff y medrir ei ddefnyddio fel gwrtaith.

Mae'r dechnoleg a ddefnyddir yn debyg i brosesau treulio stumog buwch. Caiff deunydd organig (gwastraff bwyd) ei roi mewn tanc treulio wedi'i selio, lle caiff ei gymysgu i annog micro-organebau i dreulio'r gwastraff yn llaid a hylif. Yn ystod y broses caiff methan a charbon deuocsid a elwir yn bio-nwy ei ryddhau o'r hylif. Aiff y bio-nwy mewn pibell i eneraduron i gynhyrchu pŵer a chaiff y gwastraff sydd ar ôl ei ddefnyddio fel gwrtaith.

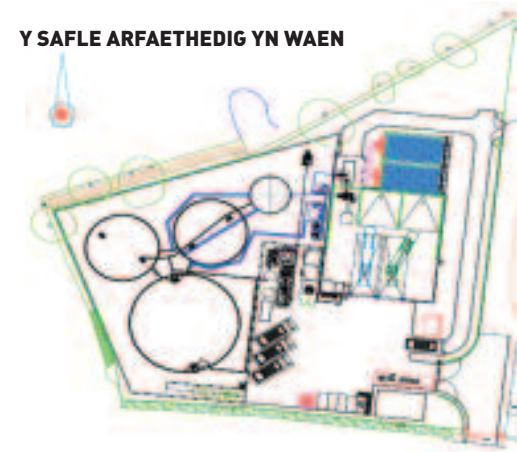


EIN CYNLLUNIAU AR GYFER SAFLE WAEN

- Safle £7.5m
- Gwasanaethu Sir Ddinbych, Sir y Fflint a Chonwy
- Darpariaeth i brosesu 20,000 tonnell o wastraff bwyd y flwyddyn.

Bydd y broses yn cynhyrchu hyd at 1MW o bŵer - digon i bweru'r safle a thua 2,000 o gartrefi - a hyd at 20,000 tonnell o wrtaith hylif, a gaiff gymeradwyaeth ansawdd (PAS110QP) ar gyfer dibenion amaethyddol..

Y SAFLE ARFAETHEDIG YN WAEN



SAFLE'R HEN LADD-DY YN DANGOS LLEOLIAD Y SAFLE TREULIO ANAEROBIG NEWYDD



AMSERLEN

Cyflwyno ceisiadau Cynllunio a Thrwydded erbyn Rhagfyr 2011

Sicrhau cynlluniau/caniatâd erbyn Ebrill 2012

Gwaith adeiladu'n dechrau ym Mai 2012

Cwblhau gwaith adeiladu erbyn Mawrth 2013

Y safle'n cynhyrchu holl wastraff bwyd y Cynghorau erbyn Medi 2013

EISIAU GWYBOD MWY?

Edrychwch ar ein gwefan: www.theteggroup.plc.uk

Ffoniwch ni ar 01772 644980

E-bostiwch: sam@theteggroup.plc.uk

Grŵp TEG ccc

Westmarch House, 42 Eaton Avenue, Buckshaw

Village, Chorley, Lancs PR7 7NA.