



To help meet Scotland's ambitious Zero Waste targets, biowaste processing will be crucial to reduce levels of biodegradable waste being sent to landfill by 2025. Will proposals for the country's largest AD plant be enough? Daniel Leaver looks at the design and process for the facility, including a human health assessment to reassure the local authority and population.

Thinking Big in Scotland

The Scottish Government now recognises the role of WtE

Nowhere are the commercial and environmental pressures greater than in Scotland. In order to become a 'zero waste' society, the recycling targets are some of the highest in Europe. These include achieving recycling and composting rates of 70% for all wastes by 2025 and reducing the quantity of biodegradable waste sent to landfill to no more than 5% by 2025.

To date, Scotland has been on course to meet and even surpass the recycling and composting targets. But to achieve the aims of the ambitious Zero Waste Plan, the Scottish Government will need view waste as a potential resource, which can be used efficiently in place of costly primary resources. In the area of waste to energy (WtE) there has been less progress, partly due to generally deep public opposition. However, with improvements in technologies and tighter regulation, the Scottish Government recognises that WtE has an important part to play.

So the recent news that planning permission has been given for Scotland's largest ever anaerobic digestion facility, capable of handling around 105,000 tonnes a year, (combined with the waste processing and recycling facility giving a total design capacity of 200,000 tonnes per year,) should be a real inspiration for smaller contractors looking to diversify into new waste streams and take advantage of a whole new market.

Led by Banks Developments in partnership with recycling firm Scotwaste, the AD plant will be built as part of a £70 million WtE facility at Pond Green Energy Park, located to the south west of Bathgate.

Although the waste input is expected to be predominantly commercial in origin, the site is particularly well suited to serve the West Lothian municipal waste contract, as well as all of the existing Scotwaste inputs. In addition, the plant will also generate enough electricity to power more than 7000 homes, as well as

enough heat to serve the equivalent of 9000 homes. The site, jointly owned by Scotwaste and Banks Developments had all the natural advantages of a well positioned location, good transport links, the right size of footprint and few competing facilities.

Environmental consultancy Wardell Armstrong was called in by Banks Developments to provide early input on energy from waste, to advise on the various technological AD options, and to prepare a financial model for the proposed facility.

Discussions on how best to take the project forward soon led to a commission to carry out a full environmental impact assessment including landscape and visual aspects, human health, noise, dust, air quality, drainage issues and transport.

The human health assessment was especially important to satisfy and reassure the local authority and population of the safety of this kind of technology. The measures proposed to control emissions, which include the ventilation system, dust filters, scrubber, biofilter, 16 metre high stack and operating within closed buildings under negative air pressure to minimise potential odours escaping, will ensure a high level of protection to the nearest residents, situated just over 300 metres from the site.

Air quality assessment and modelling were also essential to ensure that emissions from the stack, which include air from the ventilation system, the gas engines and the biofilter would be suitably dispersed and of no significant impact. Further to this, the construction materials and layout of the facility will ensure that the noise levels are well within those required by West Lothian Council for such a high profile building development. Additionally, a transport assessment confirmed that trucks would be using major routes rather than residential roads.

One way of reassuring local residents and addressing any concerns was a public exhibition of the plans, where anyone could take a look, ask questions, and find out more about the



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environmentally friendly, low impact technology involved in AD.

Waste reception and preparation

The AD process involved here can be split into two stages; waste reception and preparation followed by the anaerobic digestion process itself, with the entire process operating within enclosed buildings.

Loose waste is delivered to the treatment facility reception hall via the site weighbridge which ensures accountability and traceability within the waste stream as well as providing an audit trail for the movement of waste, its type and quality.

The reception area is maintained at negative pressure ensuring that when a door is opened fresh air flows into the building. The main doors into the reception hall will be fitted with air curtains and fast closing air locked roller doors to further ensure that odorous air does not escape into the surrounding environment.

Mechanical separation and sorting

A grab excavator will feed incoming material to a pre-crusher, to minimise the size of material. A second shredder will be used to further reduce the material to an adequate size for subsequent processes. Material will then enter a rotary screen to be graded by particle size.

Ferrous metal will be removed from the material flow streams as material passes under over-band magnets via the conveyor. Once ferrous metals have been removed all but the lightest fraction of material will be further processed within multi fraction separator (MFS) units.

The light fraction consisting of flat, elastic and flexible material (e.g. paper, plastics and textiles) will be processed using near infrared (NI-R) spectrometer. The heavy fraction comprising heavy plastics, cans and stones will also be sent through MFS units, and treated by NI-R separators to extract plastics.

Any remaining material will pass through an eddy current separator. At this stage the non-ferrous metals are removed by repelling forces generated by alternating opposing magnetic fields.

Following mechanical treatment and separation, the organic fraction requires further treatment to produce a feedstock suitable for use in the AD process. Remaining residues can either be further treated or sent to landfill.

Anaerobic digestion

The AD system at Poed will use a two stage process in order to maximise control of the bacterial communities. Before reaching one of the three large AD tanks the slurry is treated in the buffer and hydrolysis tanks which act as a buffer between the 'raw' slurry and the digestion tanks.

The prepared slurry is then pressurised, by retention for a minimum of one hour at 70°C, in order to immobilise pathogens and active seeds. Through the use of air coolers the temperature of the slurry is then reduced to 37°C to meet the requirements of the digesters. Once the correct temperature has been achieved the slurry is pumped into the digestion/fermentation tanks for anaerobic digestion. In order to prevent heavier sludge from settling and to maintain consistency, the digester is equipped with a slow rotating agitator.

Once in the reactor the slurry remains there for approximately 15-20 days. This is how long it takes to form a stable post-



formation digestate material. Once the organic fraction has worked its way through the digestion tanks it passes into the strip tank to undergo aeration. This effectively terminates the anaerobic digestion process and prevents the formation of biogas in the following stages.

The overall chemical process can be simplified by the following generic chemical equation:



The remaining, non-digestible material which the bacteria cannot feed upon, along with any dead bacterial remains constitutes the digestate.

The generated gas is transported into a low pressure gas storage facility ready for use in powering a combined heat and power plant on the site. The plan is to create a self-sustaining plant and also to be a net energy producer, with the potential for grid connection and export of energy.

The solid digestate that's produced as the result of the AD process is dewatered and then heat dried to produce a stabilised odourless organic material. Once further matured in aerobic conditions for two to four weeks this material can be used as an organic soil conditioner.

The intention is for use mainly as restoration material for the remediation of brownfield sites or as a refuse derived fuel for the generation of electricity or as a feedstock for the production of bio-diesel.

The liquid fraction of the slurry is de-watered in a screen press to remove any remaining solids before being returned to the process water tank to be re-used in the AD process. "This



The slurry remains in the reactor for 15 to 20 days to form a stable post-fermentation digestate material

decision is a landmark in the drive to deliver Scotland's zero waste strategy," says Colin Anderson, MD of Banks Property Development. "Pond Green Energy Park will provide West Lothian and the wider central belt with a local solution to its own waste, as well as delivering renewable energy to fuel businesses and homes, and supporting economic growth."

Construction of the Pond Green Energy Park is scheduled to start during 2011, with the facility coming online in 2012.

Daniel Leaver is a senior waste and resource manager at Wardell Armstrong.

■ This article is on-line. Please visit www.waste-management-world.com

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ISWA information

International Solid Waste Association

Visit www.iswa.org, for more information



ISWA GENERAL SECRETARIAT - PERSONNEL

Hermann Koller has been unanimously nominated as Managing Director by the ISWA Board Members present at the Board Meeting on 18/19 September 2010.

Hermann has served as Acting Managing Director for the last six months and within this time has proved his ability to manage ISWA very ambitiously, efficiently and carefully.

The appointment is subject to the approval of the ISWA General Assembly, which will be held prior to the ISWA World Congress on 14 November 2010 in Hamburg.

ISWA PUBLICATION AWARD 2010

Anne Scheinberg, David C. Wilson and Ljiljana Rodic have won the ISWA Publication Award 2010 for the report *Solid waste management in the world's cities, United Nations Human Settlements Programme (UN-HABITAT) – 2010* (Published by Earthscan, London – ISBN 978-1-84971-170-8).

Within the past year, it is estimated that more than 50% of the World's population now live in urban areas. Therefore, Solid waste management in the world's cities is a timely and welcome publication.

The report - conceived and produced under the leadership and financing of UN-Habitat as the third in their series on water and sanitation in the world's cities - was prepared by a large number of expert authors coordinated by the three principal authors and editors: Anne Scheinberg, David C Wilson and Ljiljana Rodic.

The publication benefits from both a wide spectrum of approaches to the assessment and management of waste and its recovery potential in developing, transition and developed countries and also these varying approaches are exemplified through 20-city case studies. The primary concern is the health and safety of the city's residents and those handling or being exposed to that waste or its potential mismanagement. Increasingly managing our urban waste resources and the sustainability of those decisions is becoming a stronger influence whenever we consider our role in tackling these issues.

We commend this publication as essential reading for waste managers and all those concerned about resource management and the recovery of waste for further productive use.

The Award will be presented at the ISWA World Congress during the Senate reception in the Hamburg Town Hall on 15 November 2010.

ISWA COMMUNICATIONS AWARDS 2010

The judging panel had an excellent selection of waste management communication promotions to assess in 2010. Eleven communication initiatives were put forward from nine different countries and the judging panel found it difficult to determine an overall winner from those put forward. The first two were separated by only a very few points out of a total 90.

First – Vienna's Poop Scoop Success

Vienna in common with other communities around the World had a problem with dogs fouling public streets, parks and other areas. Several previous attempts had failed but in 2006 a mother of two toddlers secured 160,000 signatures on a petition. Thereafter the city's waste management authorities introduced a comprehensive and progressive information, education and enforcement effort to persuade dog owners to "pack my poop in a sack". The sacks were provided by the city and extra doggie bins added in addition to the extra staff employed to impose on the spot fines and other sanctions.

The judges were impressed by the overall communications plan and in particular:

- The communication with existing staff
- The hiring of new staff
- The use of amusing but thought provoking signs placed in public parks

- Thorough assessment throughout its roll-out
- Extensive evaluation of the results.

This evaluation included analysis of the contents of a week's worth of doggie bags to determine the doggie contribution to Vienna's waste management system. For the statistically minded at least three tonnes of dog faeces are collected each day.

The best result is the fact that 87% of people are now satisfied that Vienna has adequately addressed the dog waste problem.

Second – Sweden's Waste Managers get Frank about Waste

Sweden national waste management body *Avfall Sverige* has more than 400 members, mainly municipalities but also the waste management and recycling companies. In 2008 they embarked on Sweden's largest environmental movement, an internal promotion programme to galvanise the 16,000 workers for each of *Avfall Sverige's* members to promote three key components of Sweden's waste strategy:

- Material recovery
- Hazardous waste, and
- Energy recovery.

This required a multi-media approach to ensuring the message was accessible to as many of Sweden's citizens as possible.

Third – Waste No More

The Netherlands provided our third winner with the Van Gemwinkle Groep's inspiring initiative to 'Waste No More' - reflecting our aspirations to move from traditional waste management services towards being a supplier of raw materials and energy for businesses and the community. Their communications programme was very comprehensive, including most of the communication media. Significantly they started by providing their employees with a home-based set of information, including CDs and games to interest family members. In contrast to the other winners it was felt by the panel that it was felt from the information provided that it was probably too early to determine the full effects of the campaign.

ISWA CALENDAR

2010

November

- 12** ISWA STC meeting, Hamburg, Germany
williams@iswa.org
- 13** ISWA Board Meeting, Hamburg, Germany
hkoller@iswa.org
- 14** ISWA General Assembly 2010, Hamburg, Germany
hkoller@iswa.org
- 15-18** ISWA Annual Congress, Hamburg, Germany
hkoller@iswa.org

November (continued)

- 16** Working Group Communications Meeting, Hamburg, Germany
ghabenicht@iswa.org
- 16** Working Group Hazardous Waste Meeting, Hamburg, Germany
rwilliams@iswa.org
- 17** Working Group Healthcare Waste Meeting, Hamburg, Germany
rwilliams@iswa.org

December

- 8-10** Beacon Conference on Public Private Partnership and Hazardous Waste in Developing Countries in SEE, Middle East and Mediterranean Region, Novi Sad, Serbia
hkoller@iswa.org

2011

May

- 23-24** Beacon Conference on Waste Prevention and Recycling, Vienna, Austria
hkoller@iswa.org

- 31-2 June** Conference on Solid Waste Treatment and Disposal: Leading Edge Technologies, Moscow, Russia
iswconference@slbico.com

October

- 16** ISWA General Assembly, Daegu, Republic of Korea
hkoller@iswa.org
- 17-20** ISWA Annual Congress, Daegu, Republic of Korea
hkoller@iswa.org

**10th International Electronics**

**Recycling Congress
Salzburg, Austria**
19–21 January 2011
T: +41 62 785 1000
F: +41 62 785 1005
e: info@icm.ch
w: www.icm.ch

**The 7th International
Energy from Waste 2011
London, UK**

16–17 February 2011
T: +44 1722 717 024
F: +44 1722 716 926
e: events@markallengroup.co.uk
w: www.recyclingwasteworld.co.uk/
conferences

**Plastics Recycling 2011 Conference
New Orleans, Louisiana, USA**
1–2 March 2011
T: +1 503 233 1305
F: +1 503 233 1356
e: cata@resource-recycling.com
w: www.plasticsrecycling.com

**World Bioplastics Markets
Rotterdam, The Netherlands**
22–24 March 2011
T: +44 207 099 0600
F: +44 207 900 1853
e: info@powerconferences.com
w: www.worldbioplasticsmarkets.com

**11th International Automobile
Recycling Congress
Budapest, Hungary**
23–25 March 2011
T: +41 62 785 1000
F: +41 62 785 1005
e: info@icm.ch
w: www.icm.ch

Waste & Recycling Expo Mexico

23–25 March 2011
Mexico City, Mexico
T: +52 55 5545 4468
F: +52 55 5545 0947
e: info@mesa.messefrankfurt.com
w: www.wasterecyclingmexico.com

Russia Power 2011

Moscow, Russian Federation
28–30 March 2011
T: +44 1992 656 646
F: +44 1992 656 700
e: crispinc@pernewell.com
w: www.russia-power.org

Hannover Messe

Hannover, Germany
4–8 April 2011
T: +49 511 89 0
F: +49 511 89 32626
w: www.hannovermesse.de

POWER-GEN India & Central Asia

New Delhi, India
5–7 May 2011
T: +44 1992 656 632
F: +44 1992 656 700
e: suencc@pernewell.com
w: www.power-genindia.com

ISRI Annual Convention and

**Exposition 2011
Los Angeles, California, USA**
9–9 May 2011
T: +1 202 662 8500
F: +1 202 626 0900
w: www.isri.org

Waste Expo 2011

Dallas, Texas, USA
10–12 May 2011
T: +1 202 358 4252
F: +1 202 358 3616
e: kimberly.stoll@panton.com
w: www.wasteexpo.com

Waste To Energy 2011

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17–19 May 2011
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w: www.wte-expo.de

MetalsCircle 2011

Montecatini, Brescia, Italy
19–21 May 2011
T: +39 030 998 1045
F: +39 030 998 1055
e: roberta.bondigap@edinet.com
w: www.metalscircle.com

2011 World Recycling Convention &

**Exhibition
Singapore**
22–25 May 2011
T: +32 2 627 57 70
F: +32 2 627 57 73
e: bin@biz.org
w: www.br.org

Waste-to-Resources - 4th International

**Symposium MBT & MRF 2011
Hanover, Germany**
24–26 May 2011
T: +49 511 235 9383
e: info@wasteconsult.de
w: www.wasteconsult.de

SustainabilityLive 2011

Birmingham, UK
24–26 May 2011
T: +44 20 8651 7186
e: sandra.biz@live-house.com
w: www.sustainabilitylive.com

WasteTech 2011

Moscow, Russian Federation
31 May – 3 June 2011
T: +7 495 225 5986
F: +7 495 225 5986
e: info@ibico.com
w: www.waste-tech.ru
w: www.tzwaconference.ru

POWER-GEN Europe

Milan, Italy
7–9 June 2011
T: +44 1992 656 646
F: +44 1992 656 700
e: crispinc@pernewell.com
w: www.powergen europe.com

FutureSource

London, UK
14–16 June 2011
T: +44 1604 620 426
F: +44 1604 620 467
e: events@cliem.co.uk
w: www.futuresourceuk.com

WASTECON 2011

Nashville, Tennessee, USA
23–25 August 2011
T: +1 600 467 9262
F: +1 301 389 7968
e: info@WASTECON.org
w: www.wema.org

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DREAM renforce la compétitivité de la région Centre

Depuis sa labellisation, l'ex-cluster DREAM devenu pôle de compétitivité Écotecnologies ne cesse d'évoluer pour muer vers une structure de plus grande envergure, afin de permettre aux ambitions affichées de devenir réalités.

Au-delà du succès d'un dossier de candidature supporté par l'ensemble des collectivités et institutions du territoire, cette labellisation est avant tout une aventure humaine d'un noyau dur, un groupe de femmes et d'hommes déterminé à rassembler toute une filière autour d'échanges public/privé, de collaborations interentreprises, de mutualisations des besoins, au service du développement économique.



La 1^{ère} étape fondamentale de la migration du cluster vers le pôle a consisté à renouveler la gouvernance, la renforcer, l'élargir et la diversifier

Elle s'est concrétisée lors de l'Assemblée Générale Extraordinaire qui s'est tenue le 2 juillet 2010 au Muséum d'Orléans : l'occasion pour les adhérents de DREAM, venus nombreux (près de 150 personnes présentes), d'élire un nouveau Conseil d'Administration, son Président, de valider des nouveaux statuts (adaptés au fonctionnement d'un pôle), mais surtout de ratifier de nouveaux objectifs ambitieux.

« Grâce aux efforts et à l'implication des acteurs essentiels (représentants de l'État, collectivités territoriales, industriels, chercheurs, partenaires, ...) et malgré la période estivale plus propice aux congés, DREAM est aujourd'hui en ordre de marche et au travail avec une gouvernance établie. »

Daniel VILLESOT, Président du pôle DREAM Eau & Milieux

La parole au président de DREAM

Contexte

66 2010 : année de la biodiversité ; les acteurs français publics et privés engagés dans le domaine de l'environnement contribuent, notamment à travers la mise en œuvre de la Directive Cadre sur l'Eau, à renforcer la qualité des écosystèmes et donc de leur biodiversité. C'est aussi un thème générique transverse pour DREAM et ses 4 Domaines d'Activités Stratégiques :

- Ressources du sol et du sous-sol, géothermie
- Gestion durable par l'optimisation des procédés industriels, agricoles et forestiers
- Hydraulique rurale et semi-urbaine, accès à l'eau et assainissement dans les pays du Sud
- Valorisation et préservation des milieux aquatiques

Ambitions

66 Montrer l'exemple en matière de compétitivité en assurant la montée en puissance du pôle en parallèle du développement économique de son territoire.

En effet, DREAM a déjà en portefeuille plusieurs projets de recherche et innovation qui rassemblent des acteurs industriels et du monde de la recherche dont certains (*eXtenGIS*, *TSAR*, *CETRAHE*, ...) permettent déjà des développements économiques pour et hors la région Centre.

Stratégie

66 Grâce à la labellisation « pôle de compétitivité Écotecnologies », DREAM accède aujourd'hui à des réseaux techniques et financiers qui lui permettront de définir des enjeux ambitieux par sa feuille de route 2011-2012.



Daniel VILLESSOT, Directeur Scientifique de Lyonnaise des Eaux, a été élu Président du pôle lors de l'AGE du 2 juillet 2010

Son parcours scientifique et industriel l'a mené vers de multiples fonctions dans le domaine de l'Eau :

EUREAU : Président (2006- 2007) > fédération des sociétés publiques et privées des 27 Etats membres de l'Union Européenne, en charge des services d'eau et d'assainissement pour 500 millions d'europeens

ASTEE : Président de la Commission Assainissement (depuis 1996)

FP2E : Président de la Commission Scientifique et Technique

IWA : Membre de différents Groupes Spécialisés

SHF : Membre du Bureau du CST

ENGEES Strasbourg : Membre du Conseil Scientifique

ENPC : Membre du Conseil Scientifique

Grand prix Hydrotechnique de France 2004

Pôle de compétitivité HYDREOS en Lorraine-Alsace : Vice-Président en charge des affaires internationales ; animateur du chantier opérationnel « maîtrise des polluants »

Membre du COSEI Eau et Assainissement

DREAM : Une gouvernance opérationnelle

Principales évolutions

- La mise en place d'un Règlement Intérieur adapté aux PDC,
- L'établissement d'une Charte d'Ethique garantissant la bonne conduite des opérations,
- Le recrutement en cours d'un directeur expérimenté pour piloter une équipe technique renforcée...
...Et surtout :
- Une gouvernance élargie de 8 à 25 membres,
- L'entrée de grands groupes industriels, en soutien des acteurs et notamment des PME engagées dans la démarche depuis 3 ans,
- Un nouveau Président, Daniel VILLESOT, très expérimenté et aux compétences multiples, issu du groupe Suez Environnement - Lyonnaise des Eaux, prenant le relais du dynamique Daniel PIERRE (bureau d'études Géo-Hyd), à la barre depuis près de 3 ans et ayant porté la démarche depuis ses débuts, jusqu'à la labellisation,
- Deux vice-présidents, avec des missions bien définies :
 - Daniel PIERRE (Vice-Président, Rayonnement Régional & PME), qui poursuit son investissement personnel pour le développement économique territorial, et assure ainsi la continuité de gouvernance,
 - Elisabeth VERGES (Vice-Présidente, Recherche & Formation), qui apporte son enthousiasme et sa connaissance du tissu scientifique régional et national au-delà d'une touche féminine,
- Un Trésorier, un Secrétaire, dont les missions sont nécessaires à toute association.
- Sont également associés au Bureau : 4 membres en charge des Domaines d'Activités Stratégiques en lien avec les thématiques du pôle.

Composition du bureau du pôle de compétitivité DREAM

Fonction	Mission confiée	Collège	Structure	Elu(e)
Président	Présidence	Grands Groupes	SUEZ ENVIRONNEMENT	Daniel Villesot
1er Vice Président	Rayonnement régional et PME	ETI/PME	GEO-HYD	Daniel Pierre
2ème Vice Président	Recherche & Formation	Recherche & Formation	UNIVERSITE d'Orléans - CNRS	Elisabeth Vergès
Secrétaire		Fédérations Professionnelles & Pôles	CHAMBRE REGIONALE D'AGRICULTURE du Centre	Jean-Pierre Leveillard
Trésorier		ETI/PME	DSA	Christophe Château
Membre du bureau, délégué à	L'International & l'Aide Publique au Développement	ETI/PME	VERGNET Hydro	Thierry Barbotte
Membre du bureau, délégué à	La Recherche finalisée	Recherche & Formation	INRA	Dominique King
Membre du bureau, délégué aux	Filières économiques liées à l'eau	Grands Groupes	EDF	Philippe Défossez
Membre du bureau, délégué à	L'Innovation & aux Relations Inter-pôles	Recherche & Formation	BRGM	Michel Leclercq

Définition et ratification du Contrat de Performance

Le pôle le présentera à ses partenaires, aux collectivités et à l'État d'ici le 15 novembre prochain.

Véritable feuille de route du pôle pour les 3 prochaines années, le Contrat de Performance définira les objectifs et livrables industriels des 4 Domaines d'Activités Stratégiques ainsi que les outils et actions nécessaires à leur mise en œuvre.

La rédaction d'une charte inter-pôles a déjà commencé,

dans le but de gérer la coopération et définissant une gouvernance commune avec les 2 autres pôles eau : « HYDREOS » en Alsace-Lorraine et « EAU » en Languedoc-Roussillon-Midi Pyrénées-PACA.

Daniel VILLESSOT étant également Vice-Président du pôle HYDREOS, les discussions sont grandement facilitées.

Les 3 pôles Eau ont exprimé conjointement la volonté de travailler en commun sur la communication et l'évènementiel, avec notamment:

- La réalisation d'une plaquette commune aux 3 Pôles de Compétitivité Eau mettant en avant cette offre complète de « l'école française de l'Eau »,
- La participation à des événements d'envergure internationale, comme le prochain salon POLLUTECH à Lyon (du 30 novembre au 2 décembre), ou le Forum Mondial de l'Eau à Marseille en Mars 2012,
- La participation aux Groupes de Travail Interministériels (GTI) : Réseau Ecotech, Mesure, Instrumentation et Métrologie (MIM), etc.

Préparation d'un forum national d'échanges Recherche / Entreprises

Cet événement, prévu le 14 décembre prochain à Orléans sur le site du BRGM, est co-organisé par le pôle DREAM et le cluster ResoNat fédérant l'ensemble de la Recherche en région Centre sur les aspects « eau, sol, sous-sol, biodiversité et forêt ».

Et toujours plus de projets

Une démarche prospective et continue pour identifier de nouveaux projets, pour assurer l'ingénierie des projets en émergence, le suivi des travaux déjà initiés et une anticipation active au lancement des appels à projets (AAP FUI, ANR, etc.). Des réponses aux demandes de soutien des projets d'Instituts d'Excellence dans le domaine des Energies Décarbonnées (IEED) et d'Instituts de Recherche Technologique (IRT) sont aussi au programme.

Une concentration technologique et de R&D

Cellule Cetrahe, déjà opérationnelle : Plateforme technologique unique sur le traçage fluorescent et ses applications

- Mise à disposition de moyens de mesures et d'analyses en support aux entreprises,
- Offre de services en expertise conseil et analytique en appui aux bureaux d'étude et d'ingénierie,
- 2 niveaux de formation continue dédiés aux donneurs d'ordre et aux professionnels de l'eau, publics et privés,
- Formation initiale (école d'Ingénieurs Polytech),
- R&D appliquée à l'amélioration de la méthode de traçage et ses pratiques.

eXtenGIS, à compter de 2011 : Plateforme innovante de calcul intensif dédiée aux Systèmes d'Informations Géographiques (SIG)

- Mise à disposition d'une très grande capacité de calcul et de traitement de données géographiques et environnementales massives,
- Analyse Haute résolution,
- Outil d'aide à la décision en temps réel, destiné aux industriels et aux collectivités,
- Gestion optimisée de la ressource en eau et des risques naturels.

Espace Curien, à compter de mi-2011 : Plateforme de Visualisation 3D Haute performance au service des Géosciences aux thématiques environnementales

- Mise à disposition d'une très grande capacité de visualisation 3D stéréoscopique,
- Capacité collaborative à distance (échanges et transferts de données massives, système de Téléconférence),
- Ergonomie accessible.

Plateforme Expérimentale Géothermie (BRGM)

- R&D, Expertise, accompagnement scientifique, formation, appui aux politiques publiques dans le secteur des échangeurs géothermiques de basse enthalpie (moins de 200 m de profondeur) pour les besoins de l'habitat ou de procédés industriels,
- Compréhension des interactions avec le milieu naturel souterrain et analyse de cycle de vie,
- Possibilité d'intégration des moyens de la plate-forme dans des dispositifs semi-virtuels constitués de composants réels et/ou numériques répartis sur différents sites.

Simulateur de pluie grande dimension : Plateforme technologique pour réaliser des pluies en conditions contrôlées (INRA)

- Opérationnel depuis 2001,
- Recherche et Développement sur les transferts dans l'environnement (érosion, pesticides, drainage...) ou sur le bâti (étanchéité),
- Halle technique pouvant accueillir des dispositifs jusqu'à 10 m²,
- Aide à la mise au point de votre protocole expérimental.

ANIMMORS : Analyse et Imagerie des matières minérales et organiques des roches et des sols

- Rassemble les différents équipements d'analyse et d'imagerie des constituants des roches, des sols et des fluides (eau et gaz) présents en région,
- Un des sites les mieux équipés au niveau européen pour l'analyse des sols et des roches.

CaSciModOT* : Plateforme de calcul intensif (supercalculateurs HPC)

**(Calcul SCientifique et MODélisation pour les Universités d'Orléans et Tours)*

- Ouverte à la recherche publique comme aux industriels,
- S'appuie sur le mésocentre de calcul CCSC (centre de calcul scientifique du Centre) et sur des grilles de calcul distribué.

D'autres Plateformes R&D sont en cours de recensement