Inogen® Environmental Alliance

Insights

SPOTLIGHT ARTICLE

Inogen News and Information Volume 14 July 2011

ISO 26000 – using the new CSR guideline for the Deutsche Bank Netherlands

Rotterdam, Zuid Holland, *The Netherlands, June 2011*

The new guidance standard on (Corporate) Social Responsibility, ISO 26000, is being used more and more throughout the world. Over 450 experts from nearly 100 ISO member countries contributed to the development of this guidance standard, the largest and most wide spread stakeholder process ISO has ever known. This shows the worldwide interest in and the importance of the topic. But that is not all, it is also a reflection of the necessity for a standardised terminology and approach to the Social Responsibility (SR) of organisations. Inogen Associate Beco, based in the Netherlands & Belgium, has used the guidance standard and the approach it describes for many of its clients, including Deutsche Bank Netherlands, a world player in the financial sector, who has already undertaken many CSR activities.

This article sets out to introduce ISO 26000 as well as elaborate on Beco's approach in consulting with the Deutsche Bank.

ISO 26000

Perhaps the best way to introduce the guidance standard is to first clarify what it is not. ISO 26000 is not;

- A check list for Corporate Social Responsibility (CSR)
- A certifiable standard
- Designed only for multinationals
- A sector or country specific approach to CSR
- Intended for procurement criteria nor to replace rules and legislation

The guideline to the ISO 26000 standard has multiple objectives. One objective, for example, is to support organisations in defining their social responsibilities and acting in accordance with these responsibilities in order to contribute to sustainable development. Another objective is to increase the credibility of SR claims. Such objectives are already good motivations for the development of ISO 26000 in themselves, but more specific reasons for the development of a global CSR guideline exist as well.

Despite many initiatives in the field of CSR, such as the development of standards, codes, norms and guidelines, an international, broadly-oriented, comprehensive, and overarching SR guideline issued by a well-known authority has not yet been developed. Many standards, of course, focus on a specific area of CSR, such as SA8000 on Decent Working Conditions & ISO 14001 Environmental Management.

ISO 26000 has the ambition to be a comprehensive SR guideline that will enable all organisations to define their social responsibilities. The guideline tries to make the connection with existing and familiar systems, and aims to offer a framework for the (practical) translation of international treaties, agreements and conventions in the field of CSR. ISO 26000 makes the conundrum of dealing with the many possibly relevant aspects of CSR many organisations have, a little easier to solve, because the guideline contributes to obtaining a comprehensive but limited overview, and hence makes it easier for an organisation to engage in CSR.

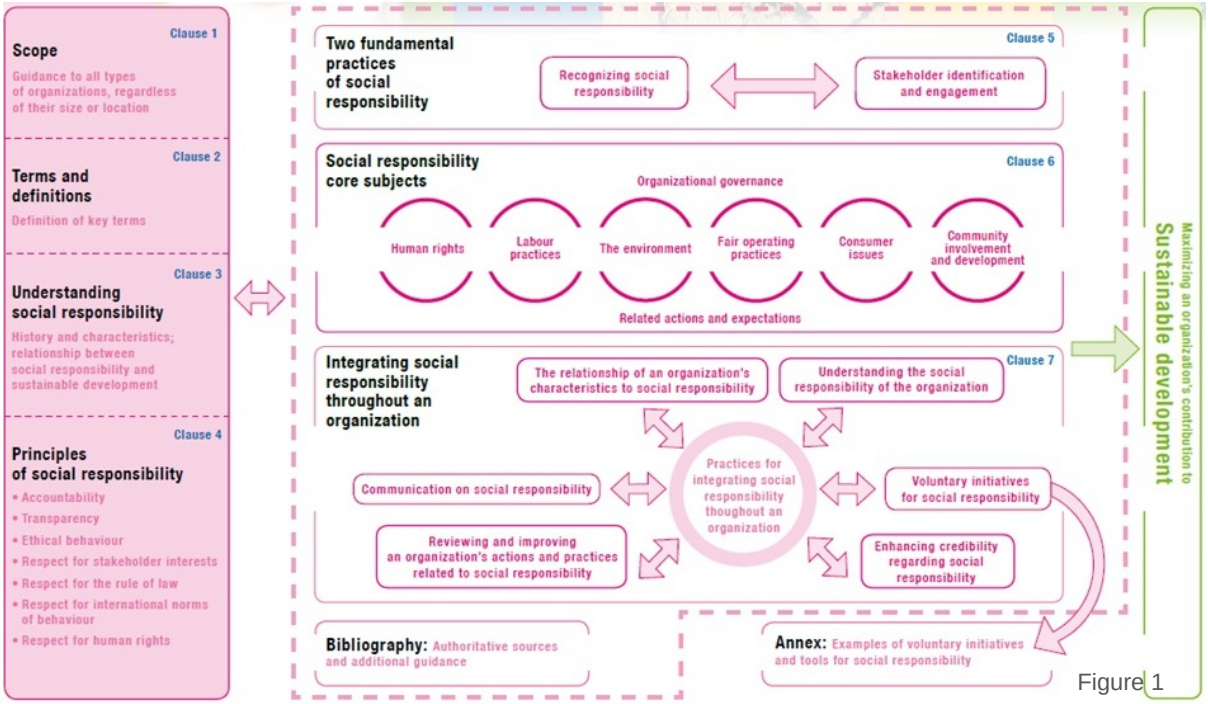

Figure 1

Message from the President

After a tremendously successful WorldView® Conference in Bad Nauheim (Germany) we are already busy preparing for the next one.

The conference will be in Toronto, Canada, on May 14th 2012. We will be looking at sustainability and EHS issues through the product life cycle. This theme will allow us to present to you the latest thinking from sustainability as an investment criterion, operational improvements through to end-of-life solutions that help rather than hinder.

Obviously, Canada's own industry will be part of our focus, but we will explicitly turn to other countries and regions too. No country stands on its own anymore.

We continue to try to serve the world better and increase our geographical coverage, for example, we have welcomed Denkstatt into our alliance this year.

Denkstatt serves the Central and Eastern European market with offices in Austria, Slovakia, Romania, Bulgaria and Hungary. Soon they will be opening offices in Serbia and Spain – the latter office focusing on special sustainability services. Furthermore, we are in the advanced stages of the due diligence process for a new member in South East Asia and I'm hoping to tell you more about this in the next issue of this newsletter.

On the economic front we still see some sluggishness here and there, but in general we see recovery across the globe, with some of the markets (Brazil and China in particular) having breezed through anyway. The effect of the stimulus packages is now wearing off rapidly, but most businesses have picked up. The crisis in the EU has some localised effects of course and we are keenly monitoring developments.

Peter

Inogen President and CEO

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The key points of IS0 2600 are illustrated on the diagram clauses 4 -7 (see figure 1) These are:

Clause 4 - The *CSR principles*. These principles form the pillars of ISO 26000 and are related to all other parts of the guidance. They are recommended as the starting points for any organisation wanting to engage in CSR.

Clause 5 - According to ISO 26000 there are two fundamental practices that should underpin any CSR initiative. They are: *recognising the social responsibilities* of the organisation and entering into pro-active *stakeholder engagement and management*.

Clause 6 - The seven *CSR core subjects* with their 37 underlying *CSR issues* form the biggest part of the guideline. Together they define what CSR is all about and what can be expected of organisations on the different issues that might be relevant to them. The seven core subjects are: Organisational Governance, Human Rights, Labor Practices, The Environment, Fair Operating Practices, Consumer Issues and Community Involvement & Development.

Clause 7 - Finally, the guideline elaborates on the most important practices to fully *integrate CSR throughout an organisation*. Here, some important elements are: reviewing and improving CSR actions and practices, understanding the social responsibility of the organisation, communicating on CSR and linking with other voluntary initiatives.

ISO 26000 at the Deutsche Bank Netherlands

Beco has been working with the CSR project team of Deutsche Bank Netherlands in identifying their relevant and significant CSR issues and developing a strategy to deal with these issues and engage with their stakeholders. In several working group meetings the 37 CSR issues of ISO 26000 were analysed regarding their materiality, significance and the degree to which they fall within the sphere of influence of the Deutsche Bank. A distinction was made between the significance of the issues for the business operations of the Bank and the significance for the financial products and services they provide. For instance, Human Rights violations are far less likely to occur in relation to the employees of the Bank, but for their international clients in the apparel industry these might by highly significant issues and from a risk perspective worthwhile to address when engaging with these clients. The significant CSR issues have formed the priorities for the Bank, for these priorities action plans are currently being formulated. The action plans take into account the measures and actions which have already been taken in previous years.

The engagement with the stakeholders has been done from a strategic perspective. First the stakeholders were prioritised by setting two main criteria: what is their level of interest in the Bank? and, what is their level of influence on the Bank? This has led to the categorisation of the stakeholders in four categories: 'encourage and influence', 'keep satisfied', 'keep informed' and 'monitor'. These categories are the starting point for the Bank to determine the method and level of engagement with each individual stakeholder on the issues that have been established as significant and a priority to the Bank. The next step will be to engage with the most important stakeholders specifically on sustainability to determine their expectations of the Bank regarding the different issues.

In conclusion, ISO 26000 has so far provided the Deutsche Bank with a comprehensive and helpful guideline to identify and prioritise their social responsibilities, develop an approach for stakeholder management and identify actions and challenges for integrating CSR into their business.

About the author: *Timo Cochius is a CSR consultant at Beco and has consulted many companies on their CSR strategy and its implementation using ISO 26000. Furthermore, he is one of the authors of the book "ISO 26000 – The Business Guide to the new Standard on Social Responsibility". For more information see: http://www.greenleaf-publishing.com/productdetail.kmod?productid=3092*

Inogen® hosts another First Class WorldView® Conference

Bad Nauheim, Germany

April 2011

In April, over 100 delegates travelled from across the globe to attend the 19th Inogen WorldView® Conference in Bad Nauheim, Germany.

The conference, *'Resources make the world go around - Is your business sustainable if your primary resources become limited or unattainable?'* addressed how businesses prepare for, prevent, react to or avoid the adverse effects of resource scarcity on productivity, profitability, feasibility of projects and corporate image.

More specifically the conference addressed four key areas of resource scarcity; water, energy, mineral and land resources.

The key note address was delivered by Dr. Birgit Spießhofer of Counsel Salans LLP, Berlin. Dr. Spießhofer spoke about environmental justice and corporate responsibility, discussing the significant and growing ecological, political and humanitarian challenges brought about by the imbalance between human population density and the geographical distribution of depleting natural resources.


WorldView Conference

Other speakers from the conference included experts on water resources, Tim Copeman, Group Quality Assurance Manager, Coca Cola Hellenic and Ruth Mathews, Executive Director, Water Footprint Network.

Experts on waste resources, Dipl.-Ing. Angela Hauk-Suska, Head of Environmental Department, Wienerberger GmbH and Prof. Dr. Stefan Gäth, Professorship for Waste and Resource Management, Justus-Liebig University, Giessen. Experts on mineral resources Arno Pöhlmann, CEO of Überlandwerk Krumbach GmbH; LEW Lech-Elektrizitätswerke AG and Dr. Klaus Schneider, Chief Technology Officer, SCHLUCHSEEWERK AKTIENGESELLSCHAFT, Laufenburg.

Experts on land resources Richard T. Shone, Vice President Safety, Health & Environment Remediation Projects Consultant Innospec Inc; and Ralph Holeschovsky, Civil Engineering, OFB Projektentwicklung GmbH.

Peter Penning, President and CEO of Inogen was delighted to see so many clients of Inogen and Associates attend the conference; "This is such a hot topic and we were delighted to hear from first rate speakers presenting their thoughts and experiences on these challenges that increasingly face organisations of all types from around the world. This conference has created an opportunity for everyone to learn from peers and apply the latest thinking on resource conservation into their own organisation."

The conference concluded with a drinks and canapés reception at the Dolce Bad Nauheim Hotel in Bad Nauheim.

The next Inogen WorldView® Conference is scheduled for 14th May 2012 in Toronto, Canada.


Dolce Bad Nauheim Hotel

Bad Nauheim Conference – 'Beyond Carbon Neutral'

May 2011

Shining Earth™, the sustainability division of UK Inogen Associate Delta-Simons, undertook a carbon footprinting and offsetting exercise for Inogen to measure the CO_2 eq emissions associated with the travel of attendees to and from the Bad Nauheim WorldView® Conference earlier this year.

The data detailing the travel details, including travel methods, vehicle type and distance was collected by Shining Earth™ following the issue of an electronic questionnaire sent to all attendees of the conference. The latest UK greenhouse gas conversion values were used to calculate the total emissions associated with the data collected. Using these values it was estimated that approximately 42.43 tonnes of CO_2eq were associated with travel to and from the conference.

The results found that 79% of the calculated CO_2 eq emissions were associated with emissions from flights, including domestic, short haul and long haul flights, 20.2% from road transport and less than 1% by rail.

The total calculated emissions have been 200% offset by Inogen and, as such, all attendee travel to and from the Bad Nauheim WorldView® Conference can be classified as 'Beyond Carbon Neutral'.

The CO_2eq emissions have been offset using a combination of verified emission reduction credits for international renewable energy and methane capture projects, including the construction of hydro power stations in the Guizhou province of China, and the capture of methane from the Meihe coal mine in the Jilin province of China, which will be used to generate electricity for the Northeast China Grid. Both projects have been verified to the Voluntary Carbon Standard (VCS). Investment was also made in 'Woodland Carbon'- UK afforestation with The Woodland Trust. The Woodland Trust's Woodland Carbon project involves the planting and caring for new native woodland in the UK, locking up carbon and creating valuable green spaces for people and wildlife alike.

For more information please contact Dr. Roger Griffiths at roger.griffiths@deltasimons.com

Leading Brands in Healthcare, Recycling and Waste Management Form Healthcare Plastics Recycling Council

St Paul, MN, USA, June 2011

The Global Corporate Consultancy (GCC) of Antea Group is providing strategic leadership and facilitation support to the Healthcare Plastics Recycling Council (HPRC), a technical coalition seeking to inspire and enable sustainable, cost-effective recycling solutions for plastic products and materials used in the delivery of healthcare.

HPRC is made up of members from Becton, Dickinson and Company, Cardinal Health, Engineered Plastics, DuPont, Hospira, Johnson & Johnson, Kimberly Clark and Waste Management.

"Understanding that the potential for plastics recycling is significant to both reducing environmental and human health impacts, HPRC exists in a collaborative effort to be a change agent for sustainable healthcare product and packaging lifecycle with the end goal of increasing the overall recycling of healthcare plastics," states Tod Christenson, Partner, GCC.

"HPRC is unique in its focus on identification of plastics recycling barriers and solution development along the entire value chain, seeking to affect plastics recycling from healthcare product design and manufacturing through product use, disposal and recycle."

HPRC is currently engaged in three initiatives aimed at enabling recycling of select plastics. The first initiative, healthcare plastics value chain mapping, is focused on defining the healthcare value chain and identifying issues and barriers along the value chain that disable plastics recycling.

The second initiative, design for recycling guidelines, is focused on developing a document that articulates product and packaging design considerations that could enhance recycling potential and value.

The third initiative, pilot study programs within healthcare facilities, is focused on evaluating material flows and volumes to build a data model that facilitates the economic analysis of plastics recycling.

For more information please contact Tod Christenson on tod.christenson@anteagroup.com

Examples of plastic packaging

DGE provides Environmental support for the Construction of Emporia

Kalmar, Sweden, June 2011

DGE has been providing environmental support to shopping mall developer Steen & Ström Sweden AB for the development of Sacndanavia's leading International shopping mall 'Emporia'.

Described as Europe's most spectacular and Scandinavia's largest shopping centre, the 'mega-mall' Emporia promises to deliver a shopping experience well beyond the norm.

When completed the mall will cover a total area of 216,000 square meters and include 200 shops, more than 20 restaurants and cafes, a rooftop park, two indoor playgrounds, several family rooms and plenty of open space areas.

DGE has been assigned to ensure that no harmful materials are used in the new construction project and to make sure that environmental material and product standards are followed.

For this assignment DGE expert Linda Karlsson, who worked on the construction project for the Malmö Arena, has been leading the project and using the database Sunda Hus ("Healthy Houses") to provide environmental support and knowledge.

The mall is due to open in October 2012.

For more information please contact Linda Karlsson, phone +46 (0)70-948 83 75 or email linda.karlsson@dge.se

Artist impression of Emporia

Dr. Yuyang Gong, Managing Director at ESD China invited to present at the World Bank Course on Contaminated Site Remediation and Redevelopment

Beijing China, June 2011

Dr. Yuyang Gong, Managing Director of Inogen Associate ESD China, was invited to deliver a lecture on "International Experience in Contaminated Site Remediation and Redevelopment," at the World Bank Course on Contaminated Site Remediation and Redevelopment held on May 17th in Beijing, China.

The two-day course was organised by the World Bank to introduce the theories and practice of contaminated site management in developed countries as well as in China, to the representatives from the government authorities, research institutes and industries.

The course focused on seven topics, including remediation and redevelopment of China's contaminated sites, issues and challenges of China's contaminated site management, international experience in contaminated industrial site management, USA Superfund law and brownfield remediation & development, case studies of China's contaminated site remediation, Beijing experience of contaminated site remediation, and Chongqing experience of contaminated industrial site management.

Dr. Yuyang Gong' presentation was well received at the conference and led to some topical debate.

For further information on the presentation please contact lfu@esdchina.com.cn

Technical Environmental Investigation of Pukeberg

Kalmar, Sweden, June 2011

DGE has successfully tendered for and won a contract to deliver site investigation work for the main study of Pukeberg's Glass Factory in Nybro Municipality. Pukeberg is one of Sweden's oldest glass factories, founded in 1871. The project is mostly grant funded by the Swedish EPA, but also by Nybro Municipality.

So far, the project has included drilling and digging for 80 sampling points in the area. Part of the work has been to delineate the large glass landfill where improperly handled or broken glass was deposited. In addition to soil sampling, surface water in nearby streams and groundwater has also been sampled.

Field measurements of all the items and building materials have been conducted using an XRF instrument that gives a very good indication if any contamination or metals have been found.

For further information please contact Daniel Hellqvist, daniel.hellqvist@dge.se

Images taken on site in April 2011

Oranjewoud ™ working with Sekisui S-LEC delivering EHS support

The Netherlands, June 2011

In 2009, Sekisui S-LEC, one of the leading European manufacturers of cross-linked polyolefin foams, appointed Oranjewoud to support them with their environmental, health & safety issues in the workplace. Due to the development of the business and the benefits that Oranjewoud has delivered to Sukusi, this role has now grown to two full time staff members providing daily support to Sukusi.

Ralph Schrijen and Jeroen Mijs both deliver operational EHS support at Sekisui S-Lec in Geleen and Roermond. They are supported by two Oranjewoud Senior Consultants Rick Rodrigues de Miranda, (environment) and Jos Villevoye (health & safety). The Senior Consultants consult with the management team of Sekisui S-Lec on EHS management compliance and strategy issues.
The project is headed by Project Manager Paul van der Meer and accompanied from the client by Mr Bernd Schroeder (QS & EHS Assistant Manager) and Mr John Scheijen (General Affairs Manager).
Ralph Schrijen comments:
"For both the sites, Roermond and Geleen, we support the management of Sekisui on day to day EHS matters as well as on specific larger projects, continuous improvements are simultaneously being performed by Oranjewoud."
Examples of projects include; improving the storage of hazardous goods, noise reduction on the work floor and producing an explosion safety document.
"In practice it is a challenge to keep up with a company that is so dynamic and continuously innovating. Any change in a production process or system can ultimately affect the EHS procedures. Together with Sekisui we are therefore working to develop a 'Management Change Program' to tackle this."
Rick Rodrigues de Miranda comments;
"In 2010, Sekisui Geleen increased their production volume by building a second Resin plant in Geleen. This change meant that the Quality Systems &EHS system had to be upgraded. Oranjewoud conducted an EHS audit at both locations of Sekisui S-Lec. The audit showed that any major changes would be accompanied with a loss of quality in the EHS management system if not managed correctly. By appointing Oranjewoud to manage this change it has provided a positive impetus to the improvement of the EHS management system."
Paul van der Meer comments:
"Because of the robust growth of Sekisui S-LEC in recent years it is necessary to have continuous daily EHS support. It is important that the complex Safety & Environment specialist support can be provided quickly and efficiently, both of which Oranjewoud has achieved.
With further growth in Europe and Africa, Sekisui S-Lec will establish a new EHS team. Oranjewoud will deliver, where appropriate, from a training-on-the-job situation, the necessary EHS knowledge to ensure compliance with the law and legislation."
For further information contact RodriguesdeMiranda@Oranjewoud.nl

Eco Factsheets on demand for MAUSER Group

Rotterdam, The Netherlands, June 2011

Would you like to have an instantly ready and up to date Eco Factsheet for an important client or promising prospect? In cooperation with MAUSER Group (Germany) BECO has developed a software application to fulfil this customer need.

Ecotransparancy

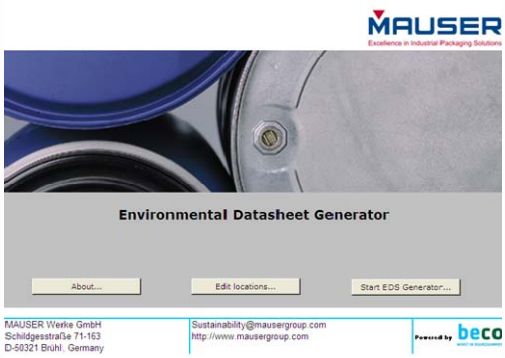
An increasing number of international companies are making their sustainable efforts more transparent by communicating environmental data of their products (i.e. carbon footprint) to their customers and stakeholders. On one hand, the communication of objective, structured and normalised environmental data shows responsibility and liability of the company for its own activities. On the other hand, it gives customers and/or consumers the opportunity to identify, verify and question the environmental performance of the specific product and company as a whole.

MAUSER Group.

MAUSER is a worldwide leading company specialising in industrial packaging. As a global company, MAUSER has a responsibility to society, the environment and its customers. To date MAUSER has taken significant steps that underline the company's unique sustainable business approach, and still has more ambitious ideas and plans to incorporate sustainability into its products and activities in the near future, which has been particularly driven by its clients who are expecting MAUSER to take environmental commitment and action.

Following this environmental pledge, Mauser has commissioned BECO to assess the environmental impact of their products in a structured and standard way, with a Life Cycle Assessment (LCA) of a selection of their industrial packaging products (2010).

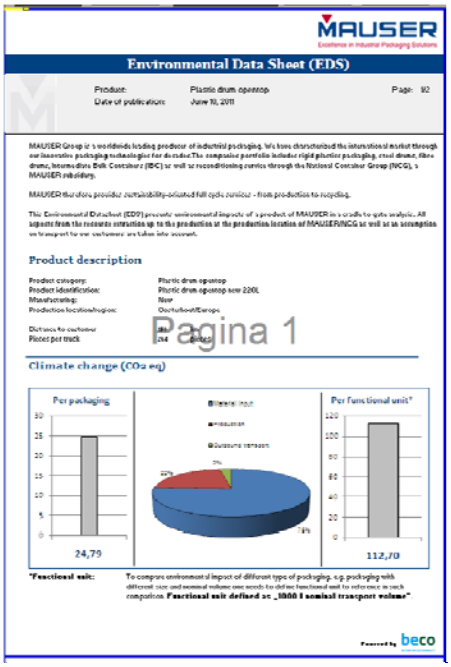
MAUSER has the ambition to have an eco factsheet (two page LCA summary) for each product out of the Product range. The LCA exercise covers only a fraction of their product portfolio, performing a complete LCA for each product would be a huge exercise. BECO has assisted MAUSER in this challenge by developing a special software application that unlocks the environmental data of the performed LCA in an easy and effective way, named 'Eco Factsheet Creator' (EFC).



The EFC designed for MAUSER is designed to create an eco factsheet for each variation of the main packaging solutions of MAUSER: IBC, plastic drum, steel drum and fibre drum, the first three can be either reconditioned or newly produced. Other variables include the material weights, percentage recycled content, transport and coating type. This allows the creation of the huge amount of eco factsheets as required by MAUSER.

Eco Factsheet Creator (EFC)

This Excel-based application is a practical interface to make an extensive environmental database easily accessible. The database has been filled with customised units (building blocks) of materials, processes and transport. After some dialogue-windows and one fill-sheet, the specific product is assembled with quantified and selected units. The eco factsheet is instantly ready for printing or archiving in PDF format.



Highlights of BECO's EFC include;

- Customised structure and interaction of the application
- All core product (groups) of portfolio covered
- Based on in depth Life Cycle analyses
- User friendly corporate design interface
- BECO Support & User license included

For more information please contact Eelco Rietveld, rietveld@beco.nl
More information about LCA, eco factsheets and the EFC, including a demonstration video is available at:
http://www.beco.nl/index.aspx?id=400

Construction and Green Standards developments for Olympic Games "Sochi-2014"

Moscow, Russia, June 2011

Following the completion of the Strategic environmental impact assessment for all the main venues of 2014 Sochi Olympics in 2010, Inogen Associate Environmental Centre IFPA has been working on Environmental Impact Assessments (EIA's) and environmental projects for other facilities being developed for the Olympic project, including working with Russian Railways on the transport routes to and from the main Olympic Venues.

This project focuses on the 'Combined (motorway and railway) road from Adler to Ski Resort Alpica-Service' (Image 1)

This infrastructure route is an integral part of the Olympic transport network that links the main ports, railway and air transport terminals in the city of Adler with the Olympic venues and nearby alpine resorts. These roads are designed to be used by the athletes and spectators at the 2014 Olympic Games, and as main transport routes for Sochi tourists after the Games.

With regard to road layout conditions, passenger safety & comfort, and concentration of infrastructure facilities this road has no parallels in the country's road construction history.

Image 1

The railway track spans 48.3km, including 11.2km of bridges, and 10.4km tunnels.

The highway spans 45.6km, including 14.3km of bridges, and 7.6km of tunnels. (Image 2)


Image 2

Activities performed by Environmental Centre on this specific project since 2008 have included;

2008-2009. Integrated engineering and environmental surveys over an area of 60 km^2 including a preliminary audit, field study and an analysis of the project's social impact and human health issues. The project's waste management options were considered and environmental impact estimated.

2008-2010. Environmental Centre was requested to develop the Environmental planning and Management (EPM) and EIA documentation for the project, including arrangement of and participation in public hearings as the customer's environmental representative. Community desires were considered in the design solutions that have been developed, and the project received a positive conclusion by the State Environmental Expert Review Authority.

2009-2010. Development of the disturbed land reclamation project for the early stage of the design.

2011. Development of the disturbed land reclamation project for the stage of detail design and construction. At this stage a common reclamation project performed in Russia includes a technical stage (measures for recovery of abiotic conditions); biological stage (measures for recovery of construction disturbed ecosystems); and the monitoring of disturbed and reclaimed territories.

The roads have been routed along the channel stream of the mountain Mzymta River. This river is very important for fishing and is a main water supply source for the city of Sochi. These features of the Mzymta River imply that any changes in the river bed could have negative environmental implications. Accordingly, the Customer, Russian Railways, requested that a project of reclamation of disturbed lands should be prepared, including a project of the Mzymta River recovery to ensure the river can be recovered fully to its pre-construction state. To fulfil these tasks Environmental Centre has performed additional studies of the river hydrology, which have included mathematical and physical modelling of the river channel processes.

A physical model of the first stretch of Mzymta River valley has been constructed at State Hydrological Institute's Main experimental base test sites. (Image 3)


Image 3

Things to be put in place to ensure the protection and reclamation to the morphological structure of Mzymta riverbed and valley include;

- The formation of dynamically stable morphological structure of a new Mzymta riverbed during all phases of the water regime.
- Dynamically stable transport of the bottom riverbed-forming sediments and their discharge to the sea.
- Acceptable hydraulic conditions of rare-occurrence flood discharge over the studied river stretches.
- Hydraulic conditions acceptable for fish in spawning season.

Emergency Flood Monitoring System

The main objective of the monitoring system is to forecast the potential flood risk that could affect the safety of an Olympic facility, in order to develop and implement measures preventing and mitigating possible emergencies. A centre of monitoring of natural hazardous processes has been established at the MCHS Directorate for Civil Defence and Emergency Response.

The public will be alerted to any oncoming natural emergency situations, for example; strong wind, dust storms, extreme precipitation, hail, frost, strong ice crust, via an MCHS Duty Officer through the methods of public address systems, by phone and through a radio network. Environmental Centre has been involved in putting the procedures and guidelines into place.

Olympic Park railway station complex

Environmental Centre has also been providing support with BREEAM Bespoke 2008 Assessment on various projects which include the Olympic Park Railway Station. The station building will be certified after the results of final assessment, however at the time of writing, the project documentation for this facility has passed the preliminary International BREEAM Bespoke assessment stage. Design solutions have been updated, a possible building's rating has been estimated, and certification schedule planned.

The Olympic Park railway station is a transfer hub which includes a railway station for long distance, commuter trains and a coach terminal. Open space surrounding the building provides a pleasant view of architect designed landscaping. The second floor of the station and main stairway are enhanced by a cascading waterfall. A tiered design provides the building with a series of verandas with pleasant views across the sea, mountains and sports arenas. (Image 4)

The facility has been assessed by the BREEAM International Bespoke 2008 scheme. An interim BREEAM certificate is planned to be obtained in December 2012. The final BREEAM certificate for the completed facility is to follow in February 2013.

For further information on any aspect of this project contact Yelena Kopeichenko, elenavk@ecifpa.ru

Image 4

Legal Register for Plexus in Germany and Romania

Hamburg, Germany, June 2011

ANTEA's client, Plexus, based in Neenah, Wisconsin, opened a new office in Germany earlier this year.

Calling on the Inogen Alliance and offering to support Plexus Germany with their Environmental and Health and Safety Compliance, Antea approached HPC Germany to deliver the compliance work for the new Plexus office in Germany.

Based on the company's plans and aspirations for the new office in Germany, HPC was asked to provide an overview on all relevant legislations and enforcements that could impact on Plexus's operations.

A meeting at the new office in Darmstadt took place with HPC and Plexus and HPC presented to them an overview of all the relevant EHS legislation that Plexus would need to comply with, from waste disposal measures to fire safety regulations.

Following this example, Plexus has now requested similar support for their next operations planned in Oradea, Romania, and HPC are currently working to collate all relevant registers and documentation for Plexus.

This service has enhanced Antea's relationship with their client Plexus, providing them with the trust and service they require to expand their operations across Europe, illustrating how well the Inogen Alliance can work together in delivering projects for large multi-national companies.

For further information please contact Keith Knoke at Keith.Knoke@anteagroup.com or Hans Schneider at Hschneid@hpc-ag.de

China Tightens its Environmental Law Control on Environmental Impact of New on Groundwater Environment

Beijing, China, June 2011

The Technical Guidelines for Environmental Impact Assessment: Groundwater Environment (the Guidelines), effective on June 1, 2011 introduced by the Ministry of Environmental Protection, has been set out to standardise the environmental impact assessment for groundwater and provide technical support to groundwater protection and pollution prevention and control in China.

The Guidelines provide for the general principle, work procedures, methodology and requirements for a groundwater Environmental Impact Assessment (EIA). Construction projects, which use groundwater as water supply sources, or may impact groundwater environment, will now by law have to conduct a groundwater EIA and abide by the Guidelines.

A groundwater EIA as required by the Guidelines shall be conducted subject to the construction project type and EIA tier. Construction projects are classified into three types based on the characteristics of their impact on groundwater.

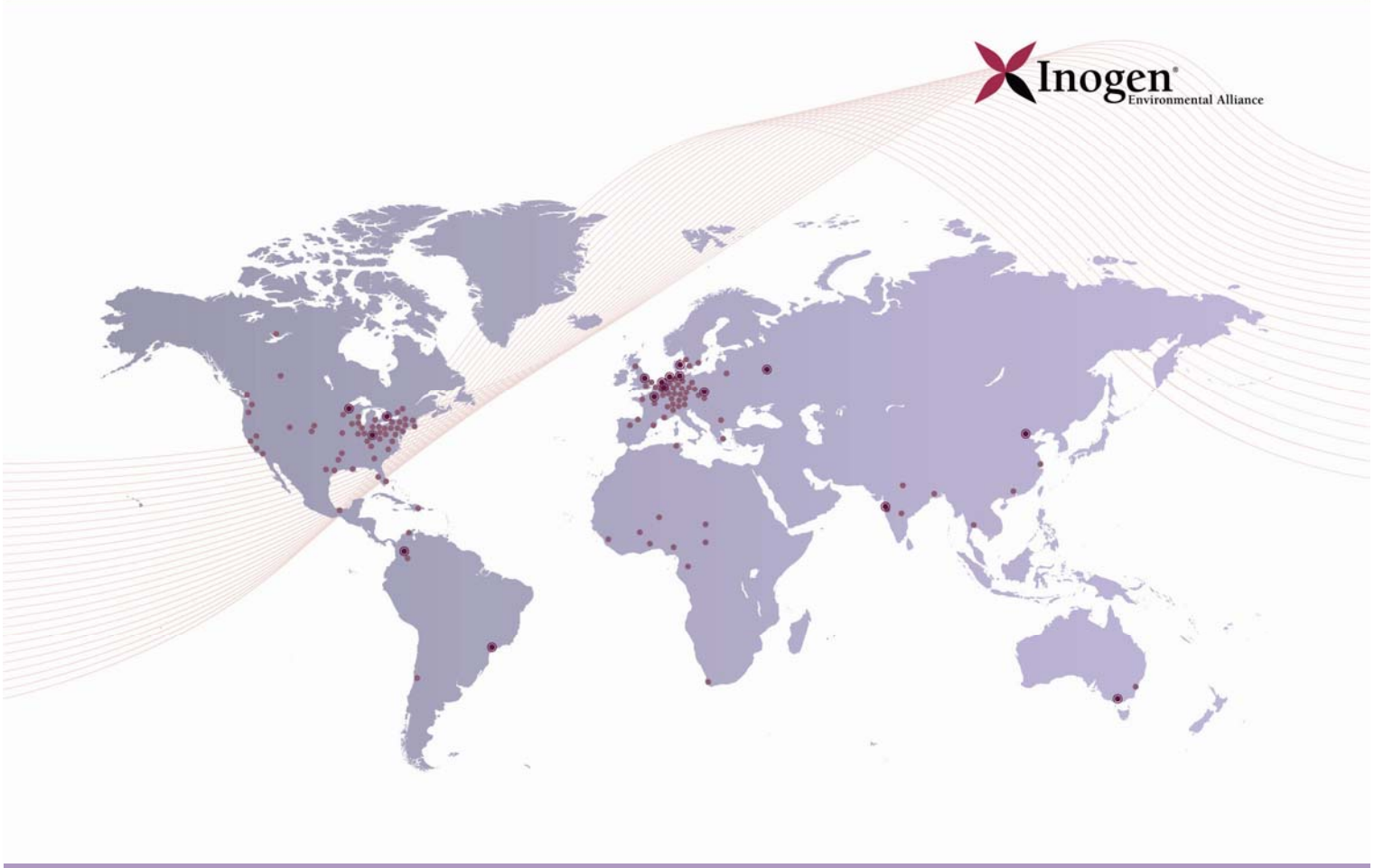
Type I are the projects that might cause groundwater pollution; Type II are the projects that might cause the change of groundwater flow and level and thus lead to hydrogeology problems; and Type III are projects that possess both Type I and Type II characteristics.

The Guidelines provide detail on how to classify a projects' significance and the corresponding technical requirements.

The Guidelines have filled the gap with the EIA system in China, moving from assessing impact only on surface and visible environment towards below surface and hidden environment as well. This approach has been taken because of the increasingly serious groundwater pollution problem in China, and also because the voluntary groundwater EIA's performed in the past by various enterprises were not effective enough to prevent groundwater pollution. Therefore, a technical guideline in this regard has been urgently required.

Business operations in China will be impacted by the Guidelines. Businesses that plan for existing facility expansion or new facility construction must perform a groundwater EIA, should the project use groundwater as water supply source or if the project could impact groundwater environment. Therefore, multinational corporations in China should be aware that conducting a groundwater EIA is a precondition for construction projects to be approved by regulators, and take into account the cost and time needed to complete the groundwater EIA in their business plans.

For more information contact lfu@esdchina.com.cn



Inogen Associates

Global Connections Achieving Superior Local Results

Angel ambiental

anteagroup

beco
RETURN ON SUSTAINABILITY

delta-simons
environmental consultants

denkstatt
sustainable thinking

DGE Group

ЭКОЦЕНТР МТЭА
ENVIRONMENTAL CENTRE IFPA

ESD CHINA LIMITED
伊世特有限公司

GEOINGENIERIA
Member of Antea Group

HPC

oranjewoud

PETER J RAMSAY & ASSOCIATES

The Payne Firm, Inc.
Environmental Consultants

SENES Consultants Limited

For further information please contact;
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