



In the North West of England

EVENT: CHINA TOMORROW - BUILDING INNOVATION LINKS BETWEEN THE NORTH WEST OF ENGLAND & CHINA

FOCUS ON ENVIRONMENTAL TECHNOLOGIES & SUSTAINABLE DEVELOPMENT

DATE: THURSDAY, 18TH MARCH 2010 **TIME:** 09:00-16:30

VENUE: DARESBURY SCIENCE & INNOVATION CAMPUS, WA4 4FS

ORGANISED BY:



Supported by



"We must attach great importance to the development of new energy industries; innovation and the development of renewable energy technologies; energy-saving emission reduction technologies; clean coal technology and nuclear technology; and vigorously promote energy-saving environmental protection and resource recycling."

Premier Wen Jiabao, Beijing, November 2009.

"As we enter a new era of innovation driven by the rapidly expanding low-carbon economy, we must ensure that UK companies benefit and develop overseas markets."

Lord Mandelson, Secretary of State for Business, Innovation and Skills, Beijing, September 2009

"The global recession has served as a harsh but necessary reminder about the importance of innovation in driving economic growth. In that context, the next stage should be for us to consider how international collaboration in this area can serve our national interests."

Lord Drayson, Minister for Science & Innovation, Scientific-Economic Research Union Conference, Berlin, May 2009.

INTRODUCTION

Innovation is a key driver of future prosperity and is at the heart of economic development. In difficult economic times, it will be those countries that invest in and successfully exploit new and innovative ideas that will come out on top.

Following the announcement at the 2009 UK-China Business Summit with Chinese Premier Wen Jiabao, the main aim of the **China Tomorrow** initiative is to better equip organisations in the UK and China to work together on a wide range of innovation & technology projects and to commercialise the outputs.

China Tomorrow provides increased access to information; highlights the opportunities for commercialisation; and encourages increased collaboration between the UK & China.

This event, supported by **Northwest Regional Development Agency** and held at Daresbury Science & Innovation Campus, will address the processes and issues involved in working collaboratively on projects related specifically to **environmental technologies** and **sustainable development**.

THE ENVIRONMENTAL CHALLENGE

Many of China's environmental problems stem from a deteriorating natural resource base; high population density; heavy reliance on coal; out of date technology; and huge industrial growth. As a result, the Chinese government has introduced significant new environmental legislation, shut down thousands of polluting factories, and decreed the country will, by the end of 2010, reduce its total pollution discharge by 10% from the 2005 level and reduce energy consumption by 20% per GDP unit. It is estimated that over the next five years, China will invest US\$175 billion in environmental protection, accounting for 1.3-1.4% of GDP.

Also, in early 2008, the State Environmental Protection Administration (SEPA) was upgraded to Ministry level to become the Ministry of Environmental Protection - proof of China's resolve to step up efforts to clean up the environment.

There are significant opportunities in the environmental technologies market in China. These include the following areas:

- Municipal and industry wastewater treatment
- Hazardous waste and medical waste treatment
- Air and water monitoring equipment
- Waste-to-Energy technologies
- Desulphurisation technologies

WATER

China's water situation is an important issue on two fronts - water pollution and water availability. It is estimated one third of China's rivers, lakes, and coastal areas are severely contaminated as a result of municipal, industrial and agricultural discharge. In addition, China has very low water resources per capita (one quarter of the world average), and they are unevenly distributed (e.g. one tenth in northern and western areas).

China continues to face severe water pollution and water scarcity problems and it is expected that total wastewater will continue to grow due to rapid urbanisation and industrialisation, to reach 64 billion tons in 2010.

AIR

In June 2008, it was estimated that 39.5% of cities in China did not meet the national standard of air quality. Among 500 cities monitored, 281 cities suffered from acid rain, accounting for 56.2% of the total.

Responding to the situation, the Chinese government decreed that by 2010, desulphurisation devices should be installed on coal-fired boilers at power plants where medium or high sulphur coal is used. All newly built, expanded or renovated coal-fired power plants must include installation of desulphurisation equipment. If only 5% of all large-sized coal-fired power plants install the required equipment, it is estimated that the market value of the desulphurisation industry will be US\$ 725 million

WHY IS CHINA IMPORTANT FOR SUSTAINABLE DEVELOPMENT?

China's impressive economic performance in recent years has brought great benefits to the global economy and consumers around the world - but there have been environmental and social costs.

The sheer size of China's own environmental problems means they have an impact across the whole world, and this should concern us all. Furthermore, with its economy set to quadruple in size within one generation, we all have a common stake in improving China's domestic environmental performance.

Working with China will be important to realising our own environmental aspirations. Many of the goods we consume are produced in the country. If we are serious about reducing the environmental impacts of our own lifestyles, we need to work closely with China to improve its environmental standards.

WHAT IS CHINA ALREADY DOING?

The creation of a so-called "Harmonious Society" has become a priority for the Chinese government, and addressing environmental deterioration and rising income inequality are considered to be crucial to achieving this. For a lower middle income country, this emphasis on the sustainability of growth is remarkable.

The Chinese government's commitment to environmental improvement is clearly signalled in the setting of very ambitious targets for pollution reduction, energy efficiency improvements, increasing forest coverage, and increasing water and garbage treatment. The economic stimulus package that the government announced recently includes about £35 billion investment in ecological improvements.

HOW IS THE UK COLLABORATING WITH CHINA?

The UK-China Sustainable Development Dialogue (SDD) is the main vehicle for cooperation with China on sustainable development. The SDD is a broad partnership between the UK and China that promotes collaboration and the exchange of good practice in sustainable development. It covers five thematic areas:

- Sustainable consumption and production
- Natural resource management
- Governance and capacity building for sustainable development
- Sustainable urban development
- Financing for sustainable development.

KEY FACTS

- China is severely deficient in natural resources: it produces only half of the oil it uses, has one-third of the global average of water resources per capita, and one-sixth of the global average of forest per person.
- China's global ecological footprint is more than six times that of the UK, although the per capita footprint is not even a third the UK's.
- China's middle class is set to double between 2006-2010. Over 1,100 new cars appear on Beijing's roads each day. But currently there are only nine cars per 1,000 people (compared to 450 in the US) - equivalent to the car ownership rate in the US in 1917.
- China is the world's largest fish producing and exporting nation. It is also the largest importer of tropical timber, sourcing wood from over 80 countries and accounting for 60% of African timber exports.

Extracted from Department for International Development (DfID), "China & Sustainable Development"

The programme for this China Tomorrow event will address a range of topics including:

1/. The opportunities in China in the air, water and waste management sectors which include:

- Air pollution control in desulfurization, de-NOX system, vehicle emissions control
- Water & wastewater treatment equipment, investment & operation, consultancy & engineering services
- Drinking water safety technologies and equipment
- Monitoring and analysis systems & instrumentation
- Solid and hazardous waste treatment
- Clean production technology
- Waste management & waste-to-energy technologies

And, in the renewable energy/climate change sector, these include:

- Energy efficiency and carbon abatement technologies
- Renewable energy: solar, wind power, bio-gas, etc
- Engineering consultancy and services

2/. The opportunities in China in sustainable development which include:

- Sustainable consumption and production
- Natural resource management
- Governance and capacity building for sustainable development
- Sustainable urban development

3/. Practical sessions to address issues including:

- Best practice / dos & don'ts for collaborative working
- The cross-cultural issues of collaboration
- IPR and legal considerations
- Funding opportunities, finding partners and routes to commercialisation

In addition, senior speakers from China - from **Shanghai & Wuhan** - will provide an informed perspective of the situation 'on the ground' in China and details of the opportunities for UK organisations in their respective areas.

DRAFT PROGRAMME

09:00 - 09:30 Registration & coffee

09:30 - 09:45 Welcome Address

Mark Atherton, Director of Environment and Energy, Northwest Regional Development Agency

Senior Representative from the Consulate General of the People's Republic of China in Manchester - **TBC**

09:45 - 10:00 Chair's Introduction

Dr Nigel Kerby, Managing Director, Mylnefield Research Services Ltd; and Board Member, China-Britain Business Council

10:00 - 11:45

An overview of opportunities for innovation & technology exchange in the environmental technologies & sustainable development sectors in China

This session will:

- Outline the opportunities to develop collaborations with organisations and academic and research institutions at the regional level in China.
- Provide examples of how organisations in China have worked with their counterparts in the UK on joint research or knowledge exchange projects.

Speakers will include:

Prof Li Guangming, Vice Dean, College of Environmental Science & Engineering, Tongji University; & Vice Director, Shanghai World EXPO 2010 Science and Technology Promotion Centre, Science & Technology Commission of Shanghai Municipality

Prof Zhu Dajian, Professor & Director, Institute of Sustainable Development and Governance, Department of Public Policy and Management, School of Economics and Management, Tongji University

Prof Liu Lijian, Department of Polymer Science, College of Chemistry and Molecular Sciences, Wuhan University

Summary of session

11:45 - 12:30

The North West of England - Environmental Technologies & Sustainable Development Showcase

Hifzi Naji, Research & Development Manager, Envirolink Northwest

Dr Mark Bacon, Associate Director for Enterprise and Business Partnerships, University of Lancaster, Environment Centre

- 12:30 - 13:30 Lunch and networking
- 13:30 - 14:00 ***Innovation, Commercialisation and Funding: the Chinese Model***
Dr Yu Xiong, Vice Chairman, China Innovation and Development Association UK
- 14:00 - 14:30 ***IPR considerations***
Mr John McMuldloch, Partner, Glaisyers Solicitors LLP
- 14:30 - 15:00 ***Best practice / dos & don'ts for collaborative working and the cross-cultural issues of collaboration***
Mr Vince Cunningham, China Business Adviser, China-Britain Business Council
- 15:00 - 15:30 ***Company Case Study***
Technology for the mechanical heat treatment of commercial and industrial waste to produce biomass fuel suitable for electricity production
Mr Steve Whatmore, Managing Director, Orchid Environmental Ltd
- 15:30 - 15.45 ***UKTI support for next steps***
Mrs Philomena Chen, Head of Asia Pacific, UK Trade & Investment North West
- 15:45 - 16.30 Event Round-up - Discussion / Q&A session

Please note this programme is subject to change.

*This event is part of the UK Department of Business, Innovation and Skills
Global Partnership Programme.*



China-Britain
Business Council
英中贸易协会

BOOKING FORM



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Please return this form to China Tomorrow North West Event, China-Britain Business Council,
1 Warwick Row, London SW1E 5ER Fax: 0207 802 2029 email: chinatomorrow@cbbc.org

I would like to reserve individual places @ £55.00 +VAT = £64.63
 individual places @ £45.00 +VAT = £52.88 (CBBC Member Rate)

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Signature Date

Note: In the event of cancellation within seven days of the event, no money will be refunded.

Important: Please note that confirmation will be sent to you once your registration has been successfully secured. This Booking Form does not constitute confirmation of the event.

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