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مركز البيئة للمدن العربية  
Environmental Center for Arab Towns

Executive Action Forum on Sustainable Development  
Modules: Waste & Water | Oct. 2017

<b>Title</b>	Generating Economic Development through Integrated Waste and Resource Management in the Middle East
<b>Overview</b>	This course is designed to provide clear and concise coverage of such opportunities and ensure that participants learn from leading current and emerging options.
<b>Objectives</b>	This course is designed to provide participants with a clear understanding of the opportunities to capitalise on proven and emerging waste and resource management practices to generate economic development opportunities. Depending on the location of the course the material will be tied closely into relevant goals such the Dubai Municipality mandatory requirement to reuse or recycle a minimum of 50 percent of C&D waste for new developments.
<b>Target Audiences</b>	The target audience for this course is professionals, entrepreneurs, and public officials working in the resources or waste sector that need to gain an up to date understanding of the latest approaches to generate economic development opportunities through integrated waste and resource management in the Middle East, based on world’s best practice.
<b>Teaching Methodology</b>	The program is designed as an executive education style with a focus on providing capacity building using a range of methods, including TEDx style lecturing, individual discovery and small group exploration, and include oral presentations based on the small group activities.
<b>Duration</b>	3 days

<b>Topics Covered</b>	<p><b>Topic 1: The Economics of Decoupling Waste from Economic Growth</b></p> <ul style="list-style-type: none"> <li>• Understanding the economic drivers for reducing waste.</li> <li>• Ensuring multiple benefits of decoupling from waste.</li> <li>• Familiarisation with specific opportunities for the UAE/GCC.</li> <li>• Identification of tangible applications in the Middle East.</li> </ul> <p><b>Topic 2: Update on Progress in Reuse, Recycling, Recovery and Re-Design</b></p> <ul style="list-style-type: none"> <li>• Reusing and recycling construction and demolition waste.</li> <li>• Recovery of metals, plastic, paper, and glass.</li> <li>• Recycling organic material and capturing methane.</li> <li>• Tangible opportunities to design out waste.</li> </ul> <p><b>Topic 3: Innovative Approaches that Create New Products and Markets</b></p> <ul style="list-style-type: none"> <li>• Replacing pulp paper with mineral paper.</li> <li>• Using food waste for new forms of agriculture and farming.</li> <li>• Creating new products from organic waste streams.</li> </ul>
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<b>Title</b>	Generating Economic Development through Integrated Water Resource Management in the Middle East
<b>Overview</b>	This course is designed to provide a concise introduction to water resource management in the Middle eastern Context and provide a clear summary of key opportunities to enhance water resource management ensure that participants learn from leading current and emerging options.
<b>Objectives</b>	This course is designed to provide participants with a clear understanding of the opportunities to capitalise on proven and emerging water resource management practices to generate economic development opportunities. Depending on the location of the course the material will be tied closely into relevant local goals.
<b>Target Audiences</b>	The target audience for this course is professionals, entrepreneurs, and public officials working in the water resources sector that need to gain an up to date understanding of the latest approaches to generate economic development opportunities through integrated water resource management in the Middle East, based on world’s best practice.
<b>Teaching Methodology</b>	The program is designed as an executive education style with a focus on providing capacity building using a range of methods, including TEDx style lecturing, individual discovery and small group exploration, and include oral presentations based on the small group activities. The course includes the opportunity for small groups to work together to develop a pitch to senior management on a new approach.
<b>Duration</b>	2 days

<b>Topics Covered</b>	<p>Topic 1: The Economics of Decoupling Water Consumption from Economic Growth</p> <ul style="list-style-type: none"> <li>• Understanding economic drivers for reducing water consumption.</li> <li>• Ensuring multiple benefits of decoupling water demand.</li> <li>• Familiarisation with specific opportunities for the Middle East.</li> </ul> <p>Topic 2: Update on Progress in Recycling, efficiency and behaviour change</p> <ul style="list-style-type: none"> <li>• Reusing and recycling grey and black water.</li> <li>• Improving the efficiency of water use in buildings.</li> <li>• Recycling organic material and capturing methane.</li> </ul> <p>Topic 3: Influencing Behaviour Associated with Water Consumption</p> <ul style="list-style-type: none"> <li>• Understanding what resident behaviours affect water consumption.</li> <li>• Learning from world class behaviour change programs.</li> <li>• Considering the role of industry in water conservation.</li> </ul>
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### **Dr Karlson 'Charlie' Hargroves**

Charlie is a world renowned Sustainability Transitions Researcher, Strategist, and Author, who is focused on making a contribution to the world's low carbon transition. Charlie has worked with many of the world's leading sustainable development experts over the last 15 years and has made a strong contribution to the field through his writing, consulting, and public speaking. Charlie teaches at both undergraduate and postgraduate level and has created extensive teaching materials in a number of sustainability related areas, such as those listed above. Charlie has been a consulting expert to the Dubai RTA on sustainability and worked with the United Nations Centre for Regional Development.

Charlie has co-authored 5 international books (currently selling over 85,000 copies in 5 languages), numerous chapters and papers, and delivered over 60 keynote presentations and guest lectures around the world. The first book won the Australian Banksia Award for Environmental Leadership, Education and Training in 2005, and the two released in 2010 were ranked among the 'Top 40 Sustainability Books' in the world that year by the Cambridge Sustainability Leaders Program (with 'Cents and Sustainability' ranked 5th and 'Factor 5' ranked 12th).

Charlie works on a number of national and international projects focused on understanding how to achieve greater sustainability outcomes, in particular those related to the low carbon transition. Charlie is a full member of the Club of Rome and a member of the Decoupling Working Group of the UN International Resource Panel. Charlie has a PhD in Carbon Structural Adjustment and is a Senior Research Fellow at the Curtin University Sustainability Policy (CUSP) Institute, working with Professor Peter Newman, and is the Sustainable Development Fellow at the University of Adelaide.



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THANK YOU

