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مركز البيئة للمدن العربية  
Environmental Center for Arab Towns

Executive Action Forum on Sustainable Development  
Modules: Energy & Land/Transportation | May 2017

<b>Title</b>	A Profitable Transition to Low Carbon Energy in the Middle East
<b>Overview</b>	The Middle East has enormous potential to develop a significant renewable energy technology and power generation capacity, while also implementing energy efficiency and demand management measures. This course is designed to provide clear and concise coverage of such opportunities.
<b>Objectives</b>	This course is designed to provide participants with a clear understanding of the opportunities to capitalise on the global shift to low carbon energy based on practical examples.
<b>Target Audiences</b>	The target audience for this course is professionals, entrepreneurs, and public officials working in the energy sector that need to gain an up to date understanding of the transition to low carbon energy and how it relates to the Middle East.
<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>Topic 1: The Role of the Middle East in a Global Low Carbon Transition</p> <ul style="list-style-type: none"> <li>• Understanding the global view of energy and carbon pollution.</li> <li>• The economics of energy and its impact on the Middle East.</li> <li>• Familiarisation with specific opportunities for the UAE/GCC.</li> <li>• Identification of tangible applications in the Middle East.</li> </ul> <p>Topic 2: Update on Progress in Renewable Energy and Energy Storage</p> <ul style="list-style-type: none"> <li>• The role of renewables in urban energy infrastructure.</li> <li>• The potential of battery storage and its implications.</li> <li>• Understanding the mechanisms of renewable energy.</li> <li>• Renewable energy generation and storage opportunities.</li> </ul> <p>Topic 3: Update on Progress in Energy Efficiency and Demand Management</p> <ul style="list-style-type: none"> <li>• The role of energy efficiency and demand management.</li> <li>• Energy efficiency opportunities in the Middle East.</li> <li>• Demand management and peak load shaving opportunities.</li> <li>• The role of utilities in a global energy market.</li> </ul>
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<b>Title</b>	Generating Economic Development through Integrated Transportation and Land Use Planning in the Middle East
<b>Overview</b>	This course is designed to provide a concise introduction to issues and solutions related to traffic congestion management in the Middle eastern Context. The course will also provide a new approach to financing mass transit infrastructure in a manner that enhances development opportunities.
<b>Objectives</b>	This course is designed to provide participants with a clear understanding of the current impacts of congestion and provide an overview of leading efforts to not only reduce congestion but to integrate transportation infrastructure with land use planning to create highly mobile cities of the future. 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 transportation or land use planning that need to gain an up to date understanding of the latest approaches to generate economic development opportunities through integrating transportation and land use t 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: Overview of Proven Ways to reduce Current Congestion Issues</p> <ul style="list-style-type: none"> <li>• Low cost solutions to reduce traffic congestion.</li> <li>• Providing attractive alternatives for commuters.</li> <li>• Economic impacts of congestion and poor land use planning.</li> </ul> <p>Topic 2: Update on Progress in Vehicle Design, Big Data and Technology Enabled Infrastructure</p> <ul style="list-style-type: none"> <li>• Opportunities to reduce energy demand from vehicles.</li> <li>• Overview of the role of Big Data in transportation.</li> <li>• Understanding the potential for tech-enabled infrastructure.</li> </ul> <p>Topic 3: An Entrepreneurs Approach to Financing Public Transport</p> <ul style="list-style-type: none"> <li>• Overview of the entrepreneur rail model.</li> <li>• Understanding the value of integrating land use and transport.</li> </ul>

### **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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