

Infrastructure at The Gateway – Ecobuild, 7-9 March 2017

Day 1 – Energy, Water & Waste		Day 2 – Devolution and Transport		Day 3 – Smart Cities and Digital	
10.30-11.45	<p>Setting the Scene – the National Needs Assessment</p> <ul style="list-style-type: none"> A vision for the UK’s infrastructure needs up to 2050 Challenges and interventions required across key infrastructure sectors Drivers of infrastructure demand and interdependencies between sectors <p>Professor Tim Broyd – President, Institution of Civil Engineers</p> <p>Andrew Wescott – Head of Policy, Institution of Civil Engineers</p> <p>Other speakers TBC</p>	10.30-11.45	<p>The Devolution Agenda</p> <ul style="list-style-type: none"> How can we make sure all key UK cities benefit from devolution powers? What opportunities and challenges will the Metro Mayor elections bring? Explore innovative finance, skills and employment, the future of city centres <p>Northern Powerhouse Steering Group – Institution of Civil Engineers</p> <p>Other speakers TBC</p>	10.30-11.45	<p>The Future of Planning</p> <ul style="list-style-type: none"> How can data standards accelerate the speed and quality of plan making? How can plan making become more iterative and support better community engagement? How can we use data models, simulations and virtual reality to test development scenarios? <p>Representative TBC – Future Cities Catapult</p> <p>Other speakers TBC</p>
12.00-13.15	<p>Energy Storage and Technology</p> <ul style="list-style-type: none"> How quickly can the UK adopt disruptive new energy storage technologies? What difference can energy storage make to grid capacity? What policies are needed to aid reduction of domestic energy demand? How can we advance the electrification of heat and transport? <p>Representative TBC – Western Power Distribution</p> <p>Representative TBC – Environmental Change Institute, University of Oxford</p> <p>Other speakers TBC</p>	12.00-13.15	<p>Intelligent Mobility</p> <ul style="list-style-type: none"> How will technology change the way we use our transport networks? What is the potential to boost the economy while mitigating climate change impacts? What might a driverless future look like? How do we make investment decisions about future infrastructure without knowing how it will be used? <p>Speakers TBC</p>	12.00-13.15	<p>ICE State of the Nation: Digital</p> <ul style="list-style-type: none"> Early findings from ICE’s flagship industry policy report Case studies of projects utilising ground-breaking digital technology Skills challenges and security mindedness <p>State of the Nation: Digital Steering Group – Institution of Civil Engineers</p> <p>Other speakers TBC</p>
13.30-14.45	<p>Future Energy Mix</p> <ul style="list-style-type: none"> What should the UK’s energy mix look like by 2050? What will the split be across nuclear, renewables, CCGT, interconnection? How will other forms of generation, as well as 	13.30-14.45	<p>Urban Transport Solutions</p> <ul style="list-style-type: none"> The need for sustainable, integrated public transport networks that work for people and place How to integrate high levels of cycling and well-used bus services 	13.30-14.30	<p>Collaborative working and security</p> <ul style="list-style-type: none"> Latest BIM technology and benefits of collaboration Best practice for managing data and designs throughout the supply chain Cyber security threats and how to develop a

	<p>storage, impact future energy mix?</p> <ul style="list-style-type: none"> What impact will Hinkley Point C have on other forms of generation? <p>Mike Hemsley – Analyst, Power, Committee on Climate Change [to give presentation – “Implications of 2050 targets for the UK electricity system”]</p> <p>Other speakers TBC</p>		<ul style="list-style-type: none"> Urban mobility plans as part of a sustainable urban transport solution <p>Jake Thrush – Transport for West Midlands</p> <p>Other speakers TBC</p>		<p>secure culture</p> <p>Speakers TBC</p>
15.00-16.15	<p>Water Resources Planning to 2050</p> <ul style="list-style-type: none"> Beyond our current water resource planning framework, what more is needed to secure supply for the future? What options do we have for creating new water storage capacity? What policies and incentives are needed to boost demand management? <p>Paul Hickey – Deputy Director, Water Resources, Environment Agency</p> <p>Jean Spencer – Director, Regulation, Anglian Water</p> <p>Ben Piper – Water Expert Panel, Institution of Civil Engineers</p> <p>Other speakers TBC</p>	15.00-16.15	<p>Driving Energy Efficiency for High Speed Rail</p> <ul style="list-style-type: none"> Delivering reductions in energy consumption for the UK rail sector Latest energy efficient design in new build high speed rail Balancing energy consumption in the high speed rail equation <p>Speakers TBC</p>	14.45-15.45	<p>The Future of Infrastructure</p> <ul style="list-style-type: none"> Game-changing technology – sensors, drones, ARVR and more The data explosion and how to unlock potential Smart materials and future asset management Skillsets and expertise needed by tomorrow's engineers <p>Speakers TBC</p>
16.30-17.45	<p>Recovering Energy from Utility Waste</p> <ul style="list-style-type: none"> Energy generation and storage potential at waste/recovery facilities Latest innovation and technology in anaerobic digestion How to unlock larger scale investment in gasification How to improve collaboration between utility and waste sectors <p>Speakers TBC</p>	16.30-17.45	<p>Airport Growth</p> <ul style="list-style-type: none"> How to deliver maximum benefits from existing capacity Getting the most from investment in new capacity Improving surface access and cross modal connectivity Whole life carbon management for airport sites <p>Representative TBC – Manchester Airport Group</p> <p>Simon Sturgis – Sturgis Carbon Profiling LLP</p> <p>Other speakers TBC</p>		