Provider:	Swedish Green Building Council
Conference:	Building Sustainable, Stockholm SE
Date:	October 18-19, 2012

Session Number (User created)	Session Title:	Total minutes of Instruction:	GBCI Topic Category (Pick one only)	Session Description (100 words):	Learning Objectives (Minimum of three)	Speaker 1 (Name, Company)	Speaker 1 Qualifications/Biography (Limit 100 Words)	Speaker 2 (Name, Company)	Speaker 2 Qualifications/Biography (Limit 100 Words)	Speaker 3 (Name, Company)	Speaker 3 Qualifications/Biography (Limit 100 Words)	GBCI CE HOUR APPROVALS			
												Approved GBCI CE Hours	Is session LEED-specific?	Session meets LEED-specific requirements for the following LEED AP Specialties:	COMMENTS
01.P1	PLENARY: Urban-Scale Redevelopment	60	Neighbourhood systems and impacts	To reach global environmental targets, we need to redevelop existing buildings and communities in more sustainable ways. The challenges are many, and include energy efficiency, renewable energy, improvements to existing infrastructure such as transportation networks, and involvement of occupants in the promotion of sustainable lifestyles. This session will present two world-class urban redevelopment projects from two of Europe's Green Capitals, Stockholm and Hamburg.	• Learn about energy-reduction strategies used in residential retrofit projects to reduce energy use by 65% over existing; • Understand the contribution of sustainable transportation solutions as part of a community-wide energy reduction plan; • Learn about near zero carbon technologies employed on a neighborhood scale to provide renewable heating and electricity.	Lisa Enarsson, Project Manager, City of Stockholm	Lisa Enarsson represents the Environment and Health department of the City of Stockholm. In addition to her work on Sustainable Järva, she is also participating in the Stockholm Royal Seaport project, a new sustainable urban development district. Lisa is the former officer of the City of Stockholm's environmental planning department, responsible for defining the environmental programme for new buildings, and is also a representative on the working group for climate and vulnerability in Stockholm. She is a former coordinator of the United Nation's Agenda 21, working on projects including mobility management, green backyards and environmental initiatives for small companies.	Jan Gerbitz, Project Coordinator, Internationale Bauausstellung IBA Hamburg GmbH	Jan Gerbitz studied Architecture and Urban Planning at the University of Fine Arts Hamburg and Hafencity University Hamburg. Since that time, he has served as Project Manager at Hamburg Energy Agency 2GBAU Centre for Energy, Buildings, Architecture and the Environment GmbH, and has been responsible for such energy policy projects as "Build with Care" and "CoZoBricks". Since 2010, he has acted as Project Coordinator at International Buildings Exhibition IBA Hamburg GmbH for the "Cities and Climate Change" project, working on development, planning, quality assurance and evaluation of individual projects as well as the implementation of the "Future Concept Renewable Wilhelmsburg".	n/a	n/a	1	No	N/A	
01.P2	PLENARY: New Urban Developments	60	Neighbourhood systems and impacts	New urban development projects provide designers and developers a unique and increasingly rare opportunity to define what constitutes a sustainable city. How people choose to live, work, play and move around at the neighborhood scale is the subject of intense discussion, and the decisions that are made by urban developers and designers can have long-lasting impacts. The session will introduce new sustainable urban developments in the frontline.	• Understand how a climate-positive neighborhood is defined and developed; • Be able to integrate urban design with technology infrastructure and sustainable lifestyles; • Identify where climate-positive strategies might be used on projects in different contexts.	Christina Schindler, Sustainability Manager, City of Stockholm	As a truly sustainable society, material and energy resources are utilized to their maximum potential. At the urban scale, this involves all waste streams, from common recyclable materials, to compostable waste, to wastewater infrastructure. There is room for improvement in giving common recyclable materials a new life as consumer goods, building materials, or sources of energy, and nutrients in the wastewater stream are well suited as agricultural fertilizers. This session will investigate the major objectives and challenges to recycling, how urban design might optimize recycling, and how we can encourage a better global effort to build sustainable recycling networks.	Lisa A Prime, Director of Sustainability, Waterfront Toronto	Lisa A. Prime is a Registered Professional Planner and LEED Accredited professional, with a Masters of Environmental Studies from York University and a Bachelor Degree in Environmental Studies from the University of Waterloo. Lisa is the Director of Sustainability for Waterfront Toronto, overseeing revitalization of approximately 2000 acres of land in Toronto's waterfront. Lisa provides strategic direction and is responsible for policy, programs and performance for activities on the waterfront, implementing the Corporation's Sustainability Framework program, intended to support market transformation, for sustainable development.	n/a	n/a	1	No	N/A	
01.WA1	WORKSHOP: Certification Systems - Buildings	90	Stakeholder involvement in innovation	Three environmental certification systems for buildings will be presented and compared in this session. The Swedish certification system Miljöbyggnad 2.1 (in English, "Environmental Building 2.1") was released in early 2012, with version 3.0 scheduled to be launched in 2014. BREEAM-SE was also finalized for release in Sweden in 2012. BREEAM-NOR was launched early in 2012. All three schemes will be presented, including experiences from developing and releasing the systems to the green building communities in Sweden and Norway. The presenters will also report on certified buildings.	• Identify the distinctions between different versions of BREEAM (Bespoke, NO, SE); • Understand the evolution of Miljöbyggnad as a reflection and response to Swedish design and construction practice; • Learn how clients, design professionals, builders and other members of the construction industry push for continual improvement in green building rating systems	Catarina Warfvinge, Technical Manager, Sweden Green Building Council	Catarina is the Energy and Environmental Manager at engineering firm Bengt Dahlgren AB, the Technical and Training Manager at the Sweden Green Building Council and a lecturer in the Department of Civil and Environmental Technology at the University of Lund. She brings her considerable enthusiasm to her role as a specialist on new construction and renovation projects, in addition to research and development work, education of students and professionals, and authoring and publishing.	Sverre Tittwen, CEO, Norwegian Green Building Council	Sverre currently serves as the CEO of the Norwegian Green Building Council. After earning his MSc Construction from the University of Trondheim, Sverre has gained 30 years of experience in the Norwegian construction sector, including roles in project and business management in the private and public real estate and construction sectors. Some of Sverre's special projects include serving as Technical Director of Block Watne (1993), leader of the innovation program Byggkvalitet (1994), and heading the sale and disposal of 2000.000m² of discarded military property (2001-2006).	n/a	n/a	1.5	No	N/A	
01.WA2	WORKSHOP: High-Performance Urban Retrofitting of Residential Buildings	90	Project systems and Energy impacts	Existing buildings use approximately 40% of the energy consumed in Europe. For this reason, the high-performance retrofitting of buildings is essential in order to reach global ambitions for reduced energy use. This workshop will look at two projects in Sweden and Finland that have implemented building retrofits and community-scale strategies as part of a grander effort to improve the community for its residents. Two speakers will present the multi-building Visulla green neighborhood project in Örebro, Sweden, and the Innovia residential building in Riihimäki, Finland, which has been renovated to meet Finnish Passive House requirements for energy efficiency.	• Understand the energy use reductions possible when implementing large-scale residential refurbishment projects; • Identify the requirements of Passive House standards and how these can be implemented on residential projects; • Learn about the impact of pre-fabricated elements on overall building energy efficiency.	Jonas Tannerstad, Head of Technical Installations, Örebrobostäder	As the Head of Technical Installations at Örebrobostäder, Jonas has assumed responsibility of the ambitious project to reduce the company's electricity consumption by 25% before 2015. A significant part of this reduction is the company's efforts to reduce energy consumption by individual residents through small and large technologies. Prior to joining Örebrobostäder in 2001, he worked with the industrial development of projects abroad for packaging machine manufacturer Emba Machinery and ABB, working in Sweden as well as Australia, Holland, Spain, Italy and other countries.	Kimmo Lylykangas, Architect SAFA, Kimmo Lylykangas Architects	Kimmo Lylykangas, a practicing architect and instructor, heads an architecture firm specializing in energy efficiency and wood construction. He has been teaching sustainable building design and wood architecture courses at Aalto University for several years. Lylykangas was one of the researchers in the TES project, which was dedicated to retrofitting with pre-fabricated façade elements. The TES project was awarded the Schwieghofer Innovation Prize in Austria in 2011. Lylykangas was the architect in Finland's first TES pilot project.	n/a	n/a	1.5	No	N/A	
01.WA3	WORKSHOP: Sustainable Living in Cities	90	Stakeholder involvement in innovation	The EU EP&D directive requires each member state to implement net zero energy requirements into their national building codes by 2020. At present, the definition of a net zero energy building is hotly debated on a global level. Achieving net zero energy for buildings relies on a range of factors and some of these factors, such as the energy use of individual tenants in a multi-tenant building, can be very challenging to manage. This workshop will feature discussions on different approaches to defining and achieving net zero energy for buildings, by looking at examples from Sweden and Northern Europe.	• Learn how renewable energy technologies such as photovoltaics, solar thermal and geothermal can create a showcase of urban redevelopment; • Identify new and unexpected opportunities in urban redevelopments, such as urban farming and female entrepreneurship; • Understand how to engage the public in developing long-term, sustainable solutions for accessible public transportation.	Trevor Graham, Head of Sustainable Communities, City of Malmö	Trevor Graham is Head of Sustainable Communities and Lifestyle in the City of Malmö, working with sustainable urban regeneration through a wide range of projects and strategic initiatives. He has previously worked with community development, urban sustainability and sustainable building in the UK and Germany and came to Sweden in 1998 to head the Eco-City Augustenborg initiative, Europe's most ambitious sustainable urban regeneration programme. Current work includes establishing the new large-scale regeneration programmes in Malmö incorporating social innovation and sustainable economic development as key parameters to speed up the process towards the sustainable city.	Fiona Parry, Land Lease (Elephant & Castle)	As the Sustainability Development Manager at Land Lease, Fiona works on community-scale projects including the Elephant and Castle regeneration project. Fiona holds a degree in Geography and MProf with a focus on Sustainable Development, working in consultancy and property development before moving to Land Lease in 2007.	n/a	n/a	1.5	No	N/A	
01.WA4	WORKSHOP: Net Zero/Plus Energy/Passive Houses - how can they be compared in different countries?	90	Project systems and Energy impacts	The EU EP&D directive requires each member state to implement net zero energy requirements into their national building codes by 2020. At present, the definition of a net zero energy building is hotly debated on a global level. Achieving net zero energy for buildings relies on a range of factors and some of these factors, such as the energy use of individual tenants in a multi-tenant building, can be very challenging to manage. This workshop will feature discussions on different approaches to defining and achieving net zero energy for buildings, by looking at examples from Sweden and Northern Europe.	• Learn about the requirements of the EU EP&D net zero energy requirements and the potential impacts for projects in Europe; • Identify the challenges of designing for, documenting, metering/monitoring and achieving net zero energy; • Understand the definition of net zero, near zero, zero carbon, climate neutral and other related terminology.	Agneta Wannerström, Development Leader Environment, Skanska Sweden	Agneta Wannerström is Development Leader for Green Buildings at Skanska Sweden, and in this role participated in certifying the first multifamily concept house under the Nordic Swan label. After completing a Master's Degree in Economics, Agneta spent 12 years in a senior advisor at The National Step before joining Skanska six years ago. By focusing on green buildings, green business and mind-set, Agneta has built success at Skanska by integrating an environmental philosophy into the corporate business strategy, and by making green attractive to customers.	Sven Ruud, Technical Expert, SP Technical Research Institute of Sweden	Sven Ruud is an expert in energy efficient construction, with a particular focus on energy efficient ventilation technologies. Sven has worked in the field of low-energy housing since 1987, and was responsible for a number of research projects on Swedish passive house issues in Lindås. Sven participated in the development of the Swedish passive house criteria, and advocated for near-zero energy buildings at the Swedish Energy Agency. He also works with the ongoing development of building regulations, as well as the assessment of energy and life-cycle costing of buildings.	n/a	n/a	1.5	No	N/A	
01.WA5	WORKSHOP: Innovative Energy Solutions - Residential Buildings	90	Project systems and Energy impacts	Among the many ways to reduce the energy consumption of buildings is to generate power locally at the building site, and there are many new and innovative technologies currently being tested on projects around the world. This workshop will present residential innovation projects from Sweden highlighting the interaction between building and district energy efficiency strategies as well as the ebP+B-buildings energy retrofit project from Austria, which employs innovative technologies such as prefabricated façade components. Participants will discuss potential technologies in terms of their applicability and practicality for a range of projects.	• Learn about the cutting-edge project "ebP+B – Building Renovation Concepts for Residential Buildings to Plus-Energy Buildings with Prefabricated Active Roof and Façade Modules, Integrated Building Services and Grid Integration"; • Identify opportunities in the procurement process for profitability and distribution of costs associated with innovative technological solutions; • Understand the practicality of implementing specific solutions on different project types in different locations.	Ava Wahlström, PhD, CIT Energy Management / Lund University	Dr. Ava Wahlström has been a consultant at CIT Energy Management since 2008, and since 2010 has served as a guest researcher at Lund University. Ava has over 20 years of experience as coordinator and project leader of research and applied projects in the fields of energy and environmental issues related to building services and comprehensive building energy systems.	Karl Höfler, Dr. Dt; Head of the Sustainable Building Department, AGI – Institute for Sustainable Technologies	Karl Höfler received his doctorate in technical sciences from the Graz University of Technology in Austria, later becoming an building zoo, and then the Department of Structural Engineering, Industrial Buildings and Building Physics before receiving a professorship at the Department of Architectural Technology, also in Graz. Karl has been both the Department for Sustainable Buildings at the AGI – Institute for Sustainable Technologies, as well as the technical office Rosenfelder & Höfler GmbH & CoKG for building physics and energy. Currently, he is serving as project manager of the Austrian project "ebP+2 – renovation of a residential building to a plus-energy-building".	n/a	n/a	1.5	No	N/A	
01.WA6	WORKSHOP: Climate Change Impacts in Urban Areas	90	Site	The impacts of climate change range from higher temperatures and more frequent heat waves, to increased pressure on fresh water resources, to rising sea levels for coastal communities. This new reality highlights the need to create sustainable cities that are robust, resilient and able to withstand- and possibly even reduce- the effects of climate change. This workshop will emphasize water-related climate change issues, such as increased storm water, rising sea levels and flood risks, by looking at Stockholm's Royal Seaport and the City of Amsterdam as key examples of urban-scale projects addressing adaptability to changes in the climate.	• Understand the range of water-related climate impacts that can impact urban development projects, and the types of solutions that address these; • Learn why large, city-scale technologies must be implemented in urban areas particularly susceptible to the climate impact of flooding; • Identify potential solutions that may be scaled-up or scaled down for different projects.	Christina Wikberger, Climate Adaptation Expert, City of Stockholm.	Christina Wikberger is employed by the City of Stockholm's Environment and Health department as an environmental officer. An expert on climate adaptation facts and measures, Christina is currently involved on health and environmental issues associated with the planning process. Christina is the former Officer of City Planning, responsible for developing strategic planning tools to integrate ecological features and green structure in urban contexts, and she has past experience as senior consultant on sustainability issues for business at U & We, with a special focus on environmentally driven business development. Christina is now the Chairman of climate adaptation for Stockholm Royal Seaport.	Daniel van Drimmelen, Holland	Daniel van Drimmelen is a senior advisor on issues of water and spatial planning at the Physical Planning Department of the City of Amsterdam. He coordinates the Amsterdam Waterproof program, which addresses the development of long-term adaptation strategies for the city of Amsterdam and the surrounding region. Caniel also serves as the secretary of the regional board of the Amsterdam Metropolitan Area.	n/a	n/a	1.5	No	N/A	
01.WA7	WORKSHOP: Accessible, Functional and Attractive- Mobility in the Future City	90	Neighbourhood systems and impacts	Transportation is a key issue in the sustainable city. While we want to create a dense, appealing urban environment for residents, we also want to facilitate the smooth and efficient movement of people and goods across this same space. As well, the reduction of carbon dioxide emissions in pursuit of our climate change goals requires that urban transport form a crucial part of the solution. This workshop will look at "the motor car society" and its impacts on urban development, proposing new strategies for alternative transportation and promoting attractive pedestrian cities through case studies from Örebro, Sweden and abroad.	• Understand the impacts of the motor car society on urban design methodology over the past century, and how this response differs from one location to another; • Identify potential means to increase the urban livelihood of neighborhoods through improved pedestrian access and alternative transportation strategies, such as cycling; • Learn how such strategies have been employed successfully through a series of measures in the municipality of Örebro, and how planners ensure future success.	Anna Kern, Director of Infrastructure, Örebro kommun	Anna works as an infrastructure and process manager at Stadsbyggnad (Urban Construction) for the municipality of Örebro. Anna graduated from Lund University of Technology in 1996 and has an MSc in civil engineering. In her work in Örebro kommun, Anna is responsible for multiple aspects of urban transportation, from bicycle planning to parking to network and infrastructure development. One of her key responsibilities is the project aimed at developing the travel centre and railway premises in Örebro.	Michael Glotz-Richter, City of Bremen Senior Project Manager	Michael works as the Senior Project Manager of "Sustainable Mobility", the City of Bremen's initiative to implement the use of cleaner vehicles, improve the accessibility and practicality of public transportation, reduce or and promote walking and cycling. He holds a Diploma in Urban and Regional Planning of the Technical University in Berlin, with a special focus on transport and environmental issues (1984). After working in the field of urban planning and transport cabining in Berlin and Cologne, he moved to Bremen in 1990 and since 1994 has led seminars in several European projects on sustainable transport and environmentally friendly mobility.	n/a	n/a	1.5	No	N/A	
01.WA8	WORKSHOP: Human Waste as a Resource	90	Acquisition, installation and management of project materials	As a truly sustainable society, material and energy resources are utilized to their maximum potential. At the urban scale, this involves all waste streams, from common recyclable materials, to compostable waste, to wastewater infrastructure. There is room for improvement in giving common recyclable materials a new life as consumer goods, building materials, or sources of energy, and nutrients in the wastewater stream are well suited as agricultural fertilizers. This session will investigate the major objectives and challenges to recycling, how urban design might optimize recycling, and how we can encourage a better global effort to build sustainable recycling networks.	• Learn how unconventional recyclable materials can find a second productive life cycle; • Identify opportunities for alternative diversion of common recyclables; • Understand the challenges for global projects in implementing recycling protocols and building recycling networks for the future.	Dr. Ulf Ranlagen, Professor (adj), The Royal Institute of Technology in Stockholm and Chief Architect, SWECO	Dr. Ulf Ranlagen is a regional and urban planner with 40 years of experience in strategic urban planning. He has developed and applied the Swedish Symbio City concept in China, Japan, Russia, Canada, Ireland and South Africa, focusing on the development of the eco-cycle-model for integrated resources management of energy, water, waste, urban design and transportation in collaboration with technical specialists and with inspiration from Swedish practice. Being both a practitioner and researcher, he has been involved in a number of research and development projects bridging the gap between theory and practice, including the VisaCity and Sustainable Municipality projects.	Tove Larsen, Senior Scientist, Urban Water Management	Tove Larsen is a chemical engineer holding a Ph D. from DTU, the Danish Technical University. She has been working in Switzerland since 1992, first at ETH2, the Swiss Federal Institute of Technology in Zürich and from 1999 at Eawag, the Swiss Federal Institute of Aquatic Science and Technology. From 2000 to 2006 she lead the large cross-cutting project Novaquatis on the role of urine source separation for sustainable urban water management (www.novaquatis.eawag.ch).	n/a	n/a	1.5	No	N/A	
01.WB1	WORKSHOP: Certification Systems - Urban areas	90	Neighbourhood systems and impacts	Two community-scale certifications will be investigated in this workshop. In Sweden, a national for the sustainable city certification of urban areas has been created in the project entitled "Sustainability certification of urban areas" (Hållbarhetscertifiering av stadsdelar, or HCS, in Swedish). HCS aims to facilitate a productive dialogue between different groups on how to create optimal solutions for the certification of new and existing urban areas. The certification system Green Star Communities is Australia's version of HCS. This scheme has been developed over the course of two years, and was launched in June 2012.	• Understand the development process behind HCS, and how it expresses the needs and realities of the Swedish urban design and construction; • Identify common and distinct philosophies, practices and social contexts between the Swedish HCS and Australian Green Star Communities; • Understand the role of community involvement in the successful implementation of urban environmental certification schemes.	Ann-Kristin Karlsson, Business Developer Sustainable Cities, WSP	Ann-Kristin Karlsson is the Director of Sustainable Cities at WSP Sweden. She is responsible for coordinating WSP's services on the Future Cities in Sweden initiative, and is involved in WSP's global Future Cities network. Ann-Kristin initiated the HCS (Hållbarhetscertifiering av stadsdelar i Sverige) project, along with the Swedish construction and property sectors, municipalities and government authorities, to investigate, evaluate and adapt or develop a system for the environmental certification of urban areas in Sweden. She will manage the HCS project for Sweden Green Building Council until the Swedish manual is developed and launched in 2013.	Dijan Lundberg, Director Green Star Operations, GBC of Australia	As the Director for Green Star Operations, Dijan oversees certification of Green Star projects, as well as revising and improving the rating tool of Green Star rating tools. Prior to joining the GBCA, Dijan worked as a researcher and tutor at Chalmers University of Technology in Gothenburg, Sweden, where he also gained a Masters of Civil Engineering with a sustainability focus.	n/a	n/a	1.5	No	N/A	
01.WB2	WORKSHOP: High-Performance Urban Retrofitting of Residential Buildings	90	Neighbourhood systems and impacts	Existing buildings use approximately 40% of the energy consumed in Europe. For this reason, the high-performance retrofitting of buildings is essential in order to reach global ambitions for reduced energy use. This workshop will look at two projects in Sweden and The Netherlands that have implemented building retrofits and community-scale strategies as part of a grander effort to improve the community for its residents. Two speakers will present the sustainable city district of Alidhem, with its own wind turbine, solar cells and innovative insulation methods, and an innovative 8-building energy retrofit project in Poptahof, The Netherlands.	• Understand the energy use reductions possible when implementing large-scale residential refurbishment projects; • Learn about the specific challenges of implementing renewable energy technologies in cold weather climates; • Identify opportunities to realize energy savings through metering, at the base-building and individual tenant scales, for residential projects.	Ann-Sofi Tapani, CEO, Alli Bostaden i Umeå	As CEO of Alli Bostaden, Ann-Sofi has collaborated with Umeå University on various sustainability and energy efficiency projects, most notably Hillbara Alidhem (Sustainable Alidhem), which features scientifically-based analysis and testing of new methods and strategies for more energy-efficient construction and management.	Deno Winkels, Sustainability Advisor, Woonbron Housing Association	Deno Winkels works as sustainability advisor for the Woonbron Housing Association. With some 71.000 dwellings, Woonbron belongs to the 5 largest housing associations in The Netherlands. Deno has been involved in several European retrofit projects, and is currently focusing on the relationship between tenant behaviour and sustainable refurbishment strategies.	n/a	n/a	1.5	No	N/A	
01.WB3 (same as 01.WA3)	WORKSHOP: Sustainable Living in Cities	90	Stakeholder involvement in innovation	The future of sustainable urban development necessarily requires innovative technical solutions for highly energy-efficient and accessible public transportation. However, the success of such strategies hinges critically on public participation, which often involves the transformation of urban citizens' behaviours and lifestyles. This workshop will investigate activating public engagement on environmental issues, and how this engagement forms an important part of defining a new social contract for urban living. Projects in Malmö, Sweden and London, England will be presented in this session.	• Learn how renewable energy technologies such as photovoltaics, solar thermal and geothermal can create a showcase of urban redevelopment; • Identify new and unexpected opportunities in urban redevelopments, such as urban farming and female entrepreneurship; • Understand how to engage the public in developing long-term, sustainable solutions for accessible public transportation.	Trevor Graham, Head of Sustainable Communities, City of Malmö	Trevor Graham is Head of Sustainable Communities and Lifestyle in the City of Malmö, working with sustainable urban regeneration through a wide range of projects and strategic initiatives. He has previously worked with community development, urban sustainability and sustainable building in the UK and Germany and came to Sweden in 1998 to head the Eco-City Augustenborg initiative, Europe's most ambitious sustainable urban regeneration programme. Current work includes establishing the new large-scale regeneration programmes in Malmö incorporating social innovation and sustainable economic development as key parameters to speed up the process towards the sustainable city.	Fiona Parry (TBC), Land Lease (Elephant & Castle)	As the Sustainability Development Manager at Land Lease, Fiona works on community-scale projects including the Elephant and Castle regeneration project. Fiona holds a degree in Geography and an MProf with a focus on Sustainable Development, working in consultancy and property development before moving to Land Lease in 2007.	n/a	n/a	1.5	No	N/A	
01.WB4	WORKSHOP: Net Zero/Plus Energy/Passive Houses - how can they be compared in different countries?	90	Project systems and Energy impacts	The EU EP&D directive requires each member state to implement net zero energy requirements into their national building codes by 2020. At present, the definition of a net zero energy building is hotly debated on a global level. Achieving net zero energy for buildings relies on a range of factors and some of these factors, such as the energy use of individual tenants in a multi-tenant building, can be very challenging to manage. This workshop will feature discussions on different approaches to defining and achieving net zero energy for buildings, by looking at examples from Sweden and across Europe.	• Learn about the requirements of the EU EP&D net zero energy requirements and the potential impacts for projects in Europe; • Identify the challenges of designing for, documenting, metering/monitoring and achieving net zero energy; • Understand the definition of net zero, near zero, zero carbon, climate neutral and other related terminology.	Kje Sandberg, Consultant, Swedish Centre for Zero Energy Houses	Kje Sandberg is a well-known consultant on energy efficient buildings. He is also the president of the Swedish Centre of Zero Energy Houses, a Swedish organisation supporting the process of low energy residential buildings.	Randall Bowie, Chief Consultant, Rockwool International	Randall has worked with energy efficiency and renewables for over 25 years. He joined Rockwool International in 2007 and works with energy efficiency matters, including standards, regulations and codes. Prior to joining Rockwool, Randall was in the European Commission's Directorate-General for Energy and Transport, where he was responsible for drafting and managing the adoption of the original Energy Performance of Buildings Directive and for the Directive on Energy End-Use Efficiency and Energy Services. Prior to joining the Commission, he worked for the Swedish Ministry of Enterprise, Energy and Communications, Swedish Energy Agency, NUTEK, and Swedish National Institute for Economic Research.	n/a	n/a	1.5	No	N/A	
01.WB5	WORKSHOP: Innovative Energy Solutions - Commercial Buildings	90	Project systems and Energy impacts	Among the many ways to reduce the energy consumption of buildings is to generate power locally at the building site, and there are many new and innovative technologies currently being tested on projects around the world. This workshop will present two commercial renovation projects, including as the Kroksklitts Factories in Sweden, which incorporate innovative energy systems, including solar cells and urban wind turbines, and the Powerhouse at Bestorkaia, Trondheim, which uses sea water to offset both heating and cooling loads. Participants will discuss potential technologies in terms of their applicability and practicality for a range of projects.	• Learn how industrial occupancies, such as factories, can find a second life as part of energy efficient redevelopment projects; • Identify appropriate renewable energy solutions based on the local context and availability of sun, wind, sea water and other resources; • Understand how differences in local design and construction practice can present challenges to implementing new technologies.	Berth Olsson, Vice President, Bengt Dahlgren AB	Berth Olsson serves as the Vice President of Bengt Dahlgren Göteborg AB, and has 15 years of experience working within all business areas of the company, including HVAC, Energy and Environment, BMS, Fire and Risk and Technical Administration. Until 2011, he was the Chairman of Miljöklassad Byggnad (Environmentally Classified Building), now known as Miljöbyggnad (Environmental Construction).	Per Ola Uleth, konsernsjefØkstÅr, Skanska Norge	Per Ola Uleth has been with Skanska Norway since 2003, and now serves as Executive Vice President. After earning his MSc in Building and Construction and a Minor of Technology Management, he gained 18 years of experience including strategic consulting and organizational development as well as employed in public large construction companies including Veidekke and Skanska. Engaged in development and innovation in the industry, Per Ola is also a current board member of NGBC (Norwegian Green Building Council), Deputy Chairman of the Board of SINTEF Building Research and chair of the steering committee for the Power House.	n/a	n/a	1.5	No	N/A	
01.WB6	WORKSHOP: Climate Change Impacts in Urban Areas	90	Site	The impacts of climate change range from higher temperatures, to increased pressure on fresh water resources, to rising sea levels for coastal communities. This new reality highlights the need for sustainable cities that are robust, resilient and able to withstand- and possibly even reduce- the effects of climate change. This workshop will explore urban planning strategies addressing potential climate change impacts, from health-related issues associated with increasingly severe and frequent heat waves, to storm events requiring robust stormwater management. Copenhagen's Cloudburst Plan, designed to protect the city against extreme rainfall in the future, will also be presented.	• Identify the risks of climate impacts to human populations, particularly those residing in cities; • Understand holistic planning approaches to deal with climate-related impacts, inclusive of such factors as heat waves, cold snaps and water shortages; • Learn how Copenhagen's Cloudburst Plan will reduce the impacts of severe rainfall events at a host of scales, from the building level to the urban environment.	Sofia Thorsson, Associate Professor, Urban Climate Group, Department of Earth Sciences, University of Gothenburg	Sofia Thorsson is an Associate Professor of Physical Geography at the University of Gothenburg, Sweden. Her research examines the impact of urban morphology, land use and vegetation on the local climate of cities; the impact of weather on outdoor activities, place perception and emotions; the effectiveness of different adaptation measures to reduce heat stress, and more recently, the impact of weather on health.	Lykke Leonardsen, Head of Strategy and Authority, City of Copenhagen	Lykke Leonardsen is the Head of the Centre for Parks and Nature in the City of Copenhagen. In her work with the municipality of Copenhagen over the last 15 years, Lykke has been involved in numerous urban projects at a range of scales, moving to the Centre for Parks and Nature in 2008. In this role, she is responsible for the blue and green planning in the city, as well as being involved on Copenhagen climate change initiatives.	n/a	n/a	1.5	No	N/A	

Provider:	Swedish Green Building Council											GBCI CE HOUR APPROVALS			
Conference:	Building Sustainability Sweden, Stockholm SE														
01.W67 (same as 01.WA7)	WORKSHOP: Accessible, Functional and Attractive- Mobility in the Future City	90	Neighbourhood systems and impacts	Transportation is a key issue in the sustainable city. While we want to create a dense, appealing urban environment for residents, we also want to facilitate the smooth and efficient movement of people and goods across this same space. As well, the reduction of carbon dioxide emissions in pursuit of our climate change goals requires that urban transport form a crucial part of the solution. This workshop will look at "the motor car society" and its impacts on urban development, proposing new strategies for alternative transportation and promoting attractive pedestrian cities through case studies from Örebro, Sweden and abroad.	• Understand the impacts of the motor car society on urban design methodology over the past century, and how this response differs from one location to another; • Identify potential means to increase the urban livelihood of neighborhoods through improved pedestrian access and alternative transportation strategies, such as cycling; • Learn how such strategies have been employed successfully through a series of measures in the municipality of Örebro, and how planners ensure future success.	Anna Kero, Director of Infrastructure, Örebro kommun	Anna works as an infrastructure and process manager at Stadsbyggnad (Urban Construction) for the municipality of Örebro. Anna graduated from Lund University of Technology in 1996 and has an MSc in civil engineering. In her work at Örebro kommun, Anna is responsible for multiple aspects of urban transportation, from bicycle planning to parking to network and infrastructure development. One of her key responsibilities is the project aimed at developing the travel centre and railway premises in Örebro.	Michael Glotz-Richter, City of Bremen Senior Project Manager	Michael works as the Senior Project Manager of "Sustainable Mobility", the City of Bremen's initiative to implement the use of cleaner vehicles, improve the accessibility and practicality of public transportation, introduce car sharing and promote walking and cycling. He holds a Diploma in Urban and Regional Planning of the Technical University in Berlin, with a special focus on transport and environmental issues (1984). After working in the field of urban planning and transport calming in Berlin and Cologne, he moved to Bremen in 1990 and since 1994 has led Bremen in several European projects on sustainable transport and environmentally friendly mobility.	n/a	n/a	1.5	No	N/A	
01.W68	WORKSHOP: Human Waste as a Resource	90	Acquisition, installation and management of project materials	In a truly sustainable society, material and energy resources are utilized to their maximum potential. At the urban scale, this involves all waste streams, from common recyclable materials, to compostable waste, to wastewater infrastructure. There is room for improvement in giving common recyclable materials a new life as consumer goods, building materials, or sources of energy, and nutrients in the wastewater stream are well suited as agricultural fertilizers. This session will investigate the major objectives and challenges to recycling, how urban design might optimize recycling, and how we can encourage a better global effort to build sustainable recycling networks.	• Learn how unconventional recyclable materials can find a second productive life cycle; • Identify opportunities for alternative diversion of common recyclables; • Understand the challenges for global projects in implementing recycling protocols and building recycling networks for the future.	Nils Lundqvist, Manager Technical Strategy, Waste Department	Nils is the Manager for Technical Strategies at the Waste Management Administration in the City of Stockholm, where he has worked for 22 years. Some of his past projects include the high profile Hammarby Sjöstad, which implemented an eco-cycle solution based on sustainable resource usage. In his time with the Waste Management Administration, Nils has seen the implementation of several programs including assigning greater responsibility for waste reduction and recycling with product producers.	n/a	n/a	n/a	n/a	1.5	No	N/A	
02.T1	TOUR: Hammarby Sjöstad and Studentenan hus	180	Neighbourhood systems and impacts	Hammarby Sjöstad is Stockholm's most significant urban development project of the last few decades. It is an exciting district where the City of Stockholm has implemented tough environmental requirements for individual buildings, services and transportation infrastructure. To attain these ambitious environmental goals, integrated planning, innovative solutions and new technologies have been necessary. The "Hammarby Model", which strives for "closed-loop urban metabolism", demonstrates how different infrastructural aspects such as energy, water and waste systems are interconnected and necessarily work with each other. The "Hammarby Model" has since been exported and applied around the world, from India to China to the United Kingdom.	• Learn how the successes of the Hammarby model have been used on other projects around the world; • Identify the different scales of intervention in creating a sustainable urban neighborhood, from individual buildings to city-wide infrastructures; • Understand how closed-loop systems function for energy, water and waste.	n/a	n/a	n/a	n/a	n/a	n/a	3	No	N/A	
02.T2	TOUR: Sustainable Ålava	180	Neighbourhood systems and impacts	Sustainable Ålava is part of the City of Stockholm's initiative to revitalize residential buildings from the 1960's and 1970's. Three of the most common building types in the area will be retrofitted to target a 50% reduction in energy consumption, achieved through improvements to the building envelope as well as new ventilation and wastewater systems with heat recovery. The most cost-efficient methods as demonstrated through this initial exploration will be used in the refurbishment of 5200 apartments in Ålava before the year 2020. The tour will visit the first two refurbished buildings in Ålava.	• Explore the impacts of a large-scale retrofit project for over 5000 residential buildings, and how to implement the project over time; • Identify the more practical systems to be used for energy retrofits based on building type, occupancy and other factors; • Understand how the benefits of a comprehensive approach to energy retrofits (M&E systems, building envelope, occupant usage patterns) impacts final energy savings.	n/a	n/a	n/a	n/a	n/a	n/a	3	No	N/A	
02.T3	TOUR: Stockholm Royal Seaport	180	Neighbourhood systems and impacts	The new urban development at Stockholm Royal Seaport will realize more than 10 000 new homes and 30 000 new jobs in the City of Stockholm. The ambitious environmental objectives for the area require that city authorities, developers, architects and entrepreneurs work closely together to oversee all aspects of the project. The first inhabitants of Stockholm Royal Seaport will start moving in during Fall 2012. This tour will visit the first completed residential units, as well as the historical gas works area with its beautiful historic industrial buildings that will be transformed into a new cultural area.	• Learn how the City of Stockholm's 2030 vision impacted the design and construction of the Royal Seaport project; • Identify the different environmental objectives employed to meet the project's sustainability goals; • Understand how the property developer addressed the needs of the City.	n/a	n/a	n/a	n/a	n/a	n/a	3	No	N/A	
02.T4	TOUR: New Karolinska Solna and Vattenfall New Headquarters	180	Neighbourhood systems and impacts	This tour will visit two exciting new projects. The first, the New Karolinska Solna (NKS) will provide a world-class health care institution with very high environmental standards in terms of both the impacts associated with the initial construction as well as the ongoing operations and maintenance impacts. NKS is pursuing both Miljöbyggnad and LEED certification. The second building, the Vattenfall New Headquarters in the growing Arenastaden area of Stockholm, is pursuing both Miljöbyggnad and Greenbuilding certification, and will feature free-cooling, south-facing roof-mounted solar panels, and vegetated sedum roofs to collect rainwater and melting snow.	• Learn how the intense programmatic requirements of a healthcare occupancy can be satisfied while also addressing stringent environmental building goals • Identify how passive and active energy strategies are necessary to meet the European Greenbuilding energy standard; • Understand the correlation between the green building certification requirements of LEED, Greenbuilding and Miljöbyggnad.	n/a	n/a	n/a	n/a	n/a	n/a	3	No	N/A	
02.T5	TOUR: Annedal	180	Neighbourhood systems and impacts	Once an industrial area north of the Stockholm city center, Annedal has been transformed into a lively urban district for 5000 residents. Maintaining high environmental values for the project, Annendal embodies a family-friendly atmosphere with amenities such as schools, art galleries and shopping, as well as public squares and outdoor spaces designed specifically for children. This tour will visit a residential passive house building by public housing company Svenska Bostäders, the Vedbeskas residential building environmentally certified under Svanen ("The Swan" in English), and SEABs primary school environmentally certified under Miljöbyggnad ("Environmental building" in English).	• Learn how the district's occupant needs were met through family-friendly amenities and public spaces; • Identify the building strategies used to satisfy Passiv Haus certification in residential buildings; • Understand the correlation between the green building certification requirements of Svanen and Miljöbyggnad.	n/a	n/a	n/a	n/a	n/a	n/a	3	No	N/A	