

STRATEGICALLY INCORPORATING SUSTAINABILITY, RESILIENCE, AND FOOTPRINT CONSOLIDATION IN PORTFOLIO PLANNING: AN FFC WORKSHOP

Monday, September 14, 2015
8:30 a.m. – 5:00 p.m. EDT
National Academy of Sciences Building, Auditorium
2101 Constitution Avenue, N.W.
Washington, D.C.

Federal mandates cover sustainability (such as reducing greenhouse gas emissions, energy and water use), improved facility space utilization (including facility consolidation and disposition of underutilized assets), and resilience (such as the ability to adapt to climate change and other impacts over time). While these responsibilities are often parceled out to different organizational components and/or implemented inconsistently on a project-by-project basis, greater efficiencies and chances of success may be realized by strategically incorporating these combined goals into agency portfolio planning and management processes.

Workshop Objectives

- Examine current approaches and potential practices in the convergence of planning for sustainability, resilience, and facility utilization;
- Discuss current and emerging strategies, techniques, and tools to improve the portfolio prioritization of investments in built facility assets; and
- Identify specific research, development, demonstration, and deployment needs to rapidly and effectively improve the prioritization of investments in built facility assets to meet the high performance requirements under normal and extreme conditions.

Sponsors

The Green Building Advisory Committee (GBAC) advises the US General Services Administration's Office of Federal High-Performance Green Buildings, as required by the Energy Independence and Security Act of 2007 (EISA), to accelerate the transformation of the Federal building portfolio to sustainable technologies and practices. The Green Building Advisory Committee Task Group on Portfolio Prioritization (TGPP) was formed based on agreement among the Committee members to address the challenges of meeting Federal requirements through portfolio planning that takes into account sustainability, resilience, and footprint consolidation.

The Federal Facilities Council (FFC) is a cooperative association of federal agencies having interests and responsibilities related to all aspects of federal facility design, construction, operation, and management. Established in 1953, the FFC operates under the National Research Council, the principal operating agency of the National Academies, congressionally chartered, private, non-profit corporations. Additional information is available at <http://www.nationalacademies.org/ffc>

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop

Agenda

Workshop 1 (Monday, September 14, 2015)

7:30 a.m.	Registration Check-In and Coffee
8:30 a.m.	Welcoming Remarks
8:40 a.m.	Introduction: Kevin Kampschroer Chief Sustainability Officer of the U.S. General Services Administration
	Keynote: Miranda A.A. Ballentine Assistant Secretary of the Air Force for Installations, Environment, and Energy, Headquarters U.S. Air Force
9:30 a.m.	Strategic Portfolio Planning for Campus/Installations <ul style="list-style-type: none">• Bruce Nevel, Associate Vice President for Facilities Development and Management (FDM), Arizona State University• Donna McIntire-Byrd Chief, Energy & Sustainable Design, Bureau of Overseas Buildings Operations, US Department of State• Marc Kodack Office of the Deputy Assistant Secretary of the Army for Energy and Sustainability Moderator: Ken Sandler, Sustainability & Green Building Advisor, GSA
11:00 a.m.	BREAK
11:15 a.m.	Strategic Portfolio Planning for High Tech/High Resource Intensity Facilities <ul style="list-style-type: none">• Elizabeth Selbst Management Analyst, Green Management Program, Department of Veterans Affairs• James Symanski Sustainable Design Program Manager, Office of Construction & Facilities Management, Department of Veterans Affairs• Barbara Macchioni Deputy Facility Manager,, Lawrence Livermore National Laboratory• Peter Williams, IBM Distinguished Engineer, Chief Technology Officer for IBM's Big Green Innovations Incubator Moderator: Sarah Slaughter, President, Built Environment Coalition
12:45 p.m.	Lunch (served onsite)
1:30 p.m.	Strategic Portfolio Planning for Offices, Courthouses, and Other Facilities <ul style="list-style-type: none">• Anna Franz Director, Planning and Project Management, Architect of the Capitol• Joseph Parisi Sustainability Program Manager, General Services Administration• Thomas Scarola, Director of Engineering, Tishman Speyer Moderator: Brendan Owens, Vice President, LEED Technical Development
3:00 p.m.	BREAK
3:15 p.m.	Synthesis of Strategies and Preparing for the Planning Exercise <ul style="list-style-type: none">• Maureen Sullivan Deputy Assistant Secretary of Defense (Environment, Safety & Occupational Health)• Kevin Kampschroer Chief Sustainability Officer at the U.S. General Services Administration Moderator: Sarah Slaughter, President, Built Environment Coalition
4:45 p.m.	Wrap-up
5:00 p.m.	Adjourn

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop

Workshop 2 (Tuesday, October 27, 2015)

The goal of the second workshop will be to discuss application of highlighted strategies from first workshop and formulate some approaches for moving forward to prioritize of mandates and requirements, address regional differences, identify relevant technology, and address needs for codes and standards, budgeting, research and methods of deployment. Lastly, the workshop will discuss policy and organizational challenges and opportunities.

8:30 a.m.	Registration Check-In and Coffee
9:00 a.m.	Review of strategic approaches, practices, and tools from first workshop
10:30 a.m.	BREAK
11:00 a.m.	Outline of Planning Exercise
12:00 a.m.	Lunch (served onsite)
1:00 p.m.	Planning Exercise
3:50 p.m.	BREAK
4:00 p.m.	Policy/organizational challenges and opportunities
5:30 p.m.	Adjourn

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop

Speaker Bio's



Kevin Kampschroer
Director, Office of Federal High-Performance Green Buildings
Chief Sustainability Officer of the U.S. General Services Administration

Kevin Kampschroer is the Chief Sustainability Officer at the U.S. General Services Administration (GSA), and the Director of the Office of Federal High-Performance Green Buildings. He manages all sustainability work at the GSA, including its commitment to reduce greenhouse gas emissions by 53--76% by 2025. He has created the framework for which GSA responds to the challenges of greenhouse gas emissions reductions and of the American Recovery and Reinvestment Act's mandate to move GSA's Federal building inventory toward high-performance green buildings.

He has devised a challenge for companies to dramatically improve the government's ability to achieve deep retrofits through Energy Savings Performance contracts—which has doubled the amount of energy conservation from these contracts. His team manages the government's implementation of a comprehensive improvement in the training and certification of facility managers and personnel across the entire Federal government (Federal Buildings Personnel Training Act of 2010). He is GSA's Senior Climate Adaptation Official, and leads the agency in planning for climate change risks.

Mr. Kampschroer was the Project Manager for the Ronald Reagan Building & International Trade Center (344 M2), and he has lectured at various universities such as MIT, Harvard, Georgia Tech, and Yale. His most recent publication as a contributing author is the first medical study showing the link between building characteristics on office worker stress and heart function—which showed the beneficial results of good lighting, natural light and IEQ. He has worked for GSA for over 39 years and is a graduate of Yale University.



Miranda A.A. Ballentine
Assistant Secretary of the Air Force for Installations, Environment, and Energy,
Headquarters U.S. Air Force

Miranda A.A. Ballentine is the Assistant Secretary of the Air Force for Installations, Environment, and Energy, Headquarters U.S. Air Force, Pentagon, Washington, D.C. Ms. Ballentine is responsible for the oversight, formulation, review and execution of plans, policies, programs and budgets for installations, energy, environment, safety and occupational health.

Prior to assuming her current position, Ms. Ballentine served as the Director of Sustainability for Global Renewable Energy and Sustainable Facilities at Walmart Stores, Inc., one of world's largest, most complex, global organizations (\$450 billion revenues). In this role, she developed and executed global strategies to reduce operating expenses in over 10,000 facilities in over 25 countries. Through acceleration of renewable energy, energy efficiency, and sustainability, Ms. Ballentine identified over \$1 billion in potential annual expense reductions and 9 million metric ton of potential avoided GHG emissions.

Prior to joining Walmart, Ms. Ballentine was Vice President for Investor Analysis and Chief Operating Officer at David Gardiner & Associates, where she informed multi-million dollar investment decisions by analyzing companies' off-balance sheet risks and opportunities, including climate and energy programs, environmental management, labor relations, diversity, and corporate governance.

Ms. Ballentine previously served as the chair of the World Economic Forum's Global Growth Action Alliance's Renewable Energy Working Group, as well as a number of non-profit boards, including the Sustainability

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop

Consortium's External Relations Committee; the NetImpact Corporate Advisory Council; and the George Washington University's Institute for Sustainability Research, Education, and Policy Advisory Board. In 2013, Ms. Ballentine was selected by the World Economic Forum for membership in its Forum of Young Global Leaders. Ms. Ballentine also serves as a guest lecturer at a number of national business schools, including Duke University, University of North Carolina, and George Washington University.

EDUCATION:

1996 - Bachelor of Science Degree in Psychology, Colorado State University, Magna cum Laude

2004 - Master of Business Administration in Environmental Management & Policy and International Business, George Washington University



Bruce Nevel, P.E.
Associate Vice President, Facilities Development and Management
Arizona State University

Bruce Nevel serves as the Associate Vice President, Facilities Development and Management (FDM) at Arizona State University. He serves as ASU's Chief Facilities Officer and is responsible for leading the entire facilities organization.

ASU's FDM is responsible for all of ASU's facilities, infrastructure, and grounds, and manages planning, design, construction, renovation, maintenance, and repairs at each of ASU's four campuses and additional sites.

Bruce is an engineer who previously worked as a Civil Engineer Corps Officer in the United States Navy. He received a B.S. in electrical engineering from Tufts University and a M.S. in civil engineering from the University of Florida.



Donna McIntire-Byrd
Chief, Energy & Sustainable Design, Bureau of Overseas Buildings Operations
US Department of State

Donna McIntire-Byrd serves as Chief of the Energy & Sustainable Design Unit for the Department of State, Bureau of Overseas Buildings Operations. She leads a team of multi-disciplinary professionals within the Department who are responsible for greening US embassies and consulates around the world and compiling a greenhouse gas inventory for the Department's ~20,000 building portfolio. Donna's team produced the Guide to Green Embassies: Eco-Diplomacy in Operation, which has proven to be an invaluable tool for U.S. embassies and consulates to improve performance and build a stronger environmental platform for the Department. In her recent role as Buildings & Climate Change Officer for the United Nations Environment Program (UNEP), Donna facilitated the launch the Common Carbon Metric for measuring energy efficiency and reporting greenhouse gas emissions from building operations – a global tool to establish performance baselines for building stock by type and climate region. She also participated in the development of the chapter on buildings in UNEP's recent publication on the Green Economy. Donna is known for designing the very 1st LEED® v1.0 Platinum project for the Chesapeake Bay Foundation during her tenure with the architectural and engineering firm, Smith Group and her work for the US Green Building Council, where she administered the LEED® Green Building Rating System. She is an Architect, LEED® Accredited Professional, and Certified Carbon Reduction Manager with a Bachelor of Science and Masters in Architecture.

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop



Marc Kodack, PhD
Environmental Protection Specialist
Office of the Deputy Assistant Secretary of the Army for Energy and Sustainability

Marc Kodack currently works in the Office of the Deputy Assistant Secretary of the Army for Energy and Sustainability. His main responsibility is to provide support to Army senior leaders in areas such as water security, sustainability, and measuring organizational performance. In 2014 he completed a six month detail in what is now the Office of the Chief Federal Chief Sustainability Officer, Council on Environmental Quality, Executive Office of the President. While he was there he worked on climate change adaptation, green infrastructure, the California drought, an update to the Guiding Principles for High Performance and Sustainable Buildings, and water policy. He holds a Ph.D. in Anthropology from the University of California, Santa Barbara. He is a 2009 graduate of the National War College at the National Defense University with a Master's of Science in National Security Studies.



Elizabeth Selbst
Management Analyst, Green Management Program
Department of Veterans Affairs

Elizabeth Selbst is a Presidential Management Fellow and serves as the Sustainable Buildings Program Manager at the Department of Veterans Affairs. Prior to joining VA, Ms. Selbst worked to integrate habitat restoration, water quality improvement, and regional-scale watershed planning for the Southeast New England Coastal Watershed Restoration Program at the New England regional office of the Environmental Protection Agency. Ms. Selbst holds master's degrees in environmental economics and public policy from Duke University.



James Symanski
Sustainable Design Program Manager, Office of Construction & Facilities Management
U.S. Department of Veterans Affairs

James Symanski, Jr., is Sustainable Design Program Manager for the U.S. Department of Veterans Affairs' (VA) Office of Construction & Facilities Management (CFM). He is responsible for the development of sustainable design and construction standards for VA facilities. Mr. Symanski is a registered Professional Engineer (P.E.), Certified Energy Manager (CEM®), and Leadership in Energy and Environmental Design Accredited Professional (LEED AP). He is a graduate of the United States Military Academy and holds master's degrees in civil engineering and business. He is a veteran of the United States

Army.

Barbara Macchioni
Deputy Facility Manager
Lawrence Livermore National Laboratory

Barbara Macchioni is the Lawrence Livermore National Laboratory's Computation Directorate Deputy Facility Manager supporting the Advanced System Simulation Computing (ASC) initiatives. Barbara has a B.S. in Mechanical Engineering from San Diego State University, and is responsible for managing the facilities and infrastructure that house the Laboratory's high performance computing support and supercomputing systems. She has 10 years of experience in multiple engineering and facility management roles, including four years as a research and development facility manager in the National Ignition Facility & Photon Science Directorate at LLNL.

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop



Peter Williams , PhD
IBM Distinguished Engineer
Chief Technology Officer for IBM's Big Green Innovations Incubator

Dr. Peter Williams is the Chief Technology Officer, Big Green Innovations, at IBM. His focus areas are resilience to natural disasters and chronic stresses; Smarter Cities; and cloud computing for government. He has had a major role in developing the intellectual foundation for IBM's "Smarter Planet" and "Smarter Cities" initiatives, and in identifying and integrating their technological components - both IBM-originated and from outside the company.

Dr. Williams holds the title of IBM Distinguished Engineer, and is also a visiting lecturer on Smarter Cities and Communities at Stanford University. By background, he is a strategy and change consultant with well over 20 years' experience of bringing technology and business issues together to develop novel solutions and business models. He holds or co-holds, or has pending, 9 US patents. A native of the UK, he has lived in California since 1999, and is married with three children. His PhD was awarded by the School of Management at the University of Bath, England, in 1986.



Anna Franz
Director, Planning and Project Management
Architect of the Capitol

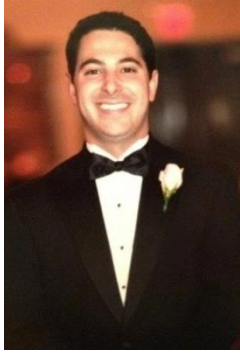
Anna Franz leads a central support organization providing planning, design, project and construction management, in-house construction, preservation, and sustainability and energy management to the U.S. Capitol, House Office Buildings, Senate Office Buildings, Library of Congress, U.S. Botanic Garden, and other Agency jurisdictional facilities.

Dr. Franz's federal career in facilities and program management includes overseeing the planning, development and implementation of capital projects for the United States Navy Department Civil Engineer Corps, Department of Justice, Smithsonian Institution and the

National Institutes of Health. Current projects include: U.S. Capitol Dome Restoration, Stone Restoration Projects at the Russell Senate Office, U.S. Capitol and U.S. Supreme Court Buildings, Cannon House Office Building Renewal, Capitol Power Plant Refrigeration Plant Revitalization Program, Cogeneration, Library of Congress Book Modules 3, 4 and 5, Bartholdi Fountain and Park Restoration and National Garden.

Dr. Franz holds a Master of Architecture from The University of Texas at Austin and Doctor of Philosophy from The George Washington University. She is a registered architect in Virginia and member of the American Institute of Architects. Awards include The Architect's Citation Award, General Services Administration Honor Award in Preservation and Conservation and Attorney General Special Commendation Award. She participates in the Advisory Council on Historic Preservation and Construction Industry Institute (CII), and served as the CII Chair in 2014.

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop



Joseph Parisi
Sustainability Program Manager
General Services Administration

Joseph Parisi serves as the Sustainability Program Manager for the US General Services Administration MidAtlantic Region. He has recently completed a temporary detail to the GSA Public Buildings Service Office of the Chief Greening Officer as a national program manager.

Joe is responsible for the interpretation and implementation of sustainability policy across all PBS business lines and serves as an internal subject matter expert and resource for GSA as well as its customer agencies. This includes collaboration on large and small design and construction projects, ongoing building operations and maintenance, leasing and contracting activities as well as asset planning.

Joe comes from an engineering background and holds a B.S. in Mechanical Engineering from Villanova University and an M.S. in Sustainable Design from Philadelphia University.



Thomas Scarola
Director of Engineering
Tishman Speyer

Mr. Scarola has over 40 years of experience in the construction industry. He joined Tishman Speyer in 2002 and currently serves as the Director of Engineering. Prior to joining Tishman Speyer he was a senior project manager for AMEC/Morse Diesel, where he oversaw large MEP projects in New York, including the Rose Center of Space and Earth at the American Museum of Natural History and a major infrastructure renovation at the Museum of Modern Art (MoMA). As Director of Engineering, he is responsible for overseeing the development and implementation of TS Standards for all projects. Recent responsibilities include assisting two major financial institutions, Goldman Sachs and Citibank, as a development manager on domestic and international projects as well as working on Tishman Speyer projects in India, China, Brazil, Germany, New York, Washington, DC, Chicago and Boston. This involves establishing program requirements and sustainability goals and overseeing public funding initiatives and monitoring each project through design, budgeting, bid and award, construction, commissioning and turn-over.

Mr. Scarola has worked with major engineering firms throughout the world. Key in his role is to lead the development team during concept and schematic design in the selection of systems, equipment configuration and the analysis of energy efficiency measures based on computer modeling and life cycle costing. His experience in Advanced Commissioning, Building Management Systems (BMS) and building operations provides up front implementation of years of lessons learned. His present challenge has been working with technology software firms to develop a communication exchange protocol between BIM and various Facilities Maintenance programs.

Mr. Scarola is a registered LEED Accredited Professional and has served on numerous committees and boards. He served two terms as a Board Member of the US Green Building Council, was Vice Chairman of the LEED for New Construction Committee, on the LEED Steering Committee, on sub-committees on energy and commissioning and was a member for the LEED Technical Committee. He worked with the Clinton Foundation in helping to develop their Existing Building Retrofit Program, with the EPA in the analysis of their Energy Star Portfolio program, on the Department of Energy's Commercial Real Estate Energy Alliance Executive Roundtable and was a Member of the Real Estate Roundtable's Sustainability Policy Advisory Committee. He served on the Advisory Committee on Sustainability for the New York City Building Department, the Real Estate Board of New York Sustainable Urban Development Committee, the Urban Land Institute NY Sustainable Building Council, on the Governor of New York's Renewable Energy Task Force and the USGBC NY Green Codes Task Force Advisory Committee to the NYC Mayor's Office. Mr. Scarola holds an engineering degree from the University of Notre Dame.

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop



Maureen Sullivan
Deputy Assistant Secretary of Defense
(Environment, Safety & Occupational Health)

Ms. Sullivan is responsible for DoD's policies and programs related to compliance with environmental laws; management of natural and cultural resources; cleanup of contaminated sites; safety & occupational health; fire and emergency services; green/sustainable buildings; installation emergency management; international environmental compliance and cleanup efforts; climate change adaptation planning; strategic sustainability planning; planning to address emerging contaminants; and international defense environmental cooperation. Additionally, Ms. Sullivan is responsible for the DoD Native American program, oversees the Armed Forces Pest Management Board, the DoD Explosives Safety Board, and the Strategic Environmental Research and Development Program/ Environmental Security Technology Certification Program. For the past 23 years, Ms. Sullivan has served in various leadership positions as a member of the Office of the Secretary of Defense environmental staff and currently represents the Department of Defense on the White House Climate and Natural Resources Working Group and the White House Pollinator Task Force.

Moderators:



Sarah Slaughter
President, Built Environment Coalition

Dr. Sarah Slaughter is President of the Built Environment Coalition, and currently serves on the U.S. Green Building Advisory Committee. She was recently a Visiting Lecturer in the MIT Department of Urban Studies and Planning, the Associate Director for Buildings and Infrastructure in the MIT Energy Initiative, faculty head of the Sustainability Initiative in the MIT Sloan School of Management, and previously the founder and CEO of MOCA Systems, Inc. She was a MIT professor in the Department of Civil and Environmental Engineering, and earlier was a Lehigh University professor of Civil and Environmental Engineering. Dr. Slaughter is a member of the National Academy of Construction, and an Associate Member of the National Academy of Sciences, Engineering, and Medicine. She serves on the Board of Directors for Retroficiency, Inc., and the Charles River Watershed Association. She received her PhD, SM, and SB from the Massachusetts Institute of Technology.



Ken Sandler
Sustainability & Green Building Advisor, Office of Federal High-Performance Green Buildings
U.S. General Services Administration

Ken Sandler is a Sustainability and Green Building Advisor for the Office of Federal High-Performance Green Buildings, where he manages demonstration projects, best practices development and outreach to green the Federal building portfolio. His research at GSA has included analyzing energy efficiency options for Fort Carson Army Base as part of the Army's Net Zero Initiative and green roof benefits and challenges. Sandler serves as Co-Chair of the Interagency Sustainability Working Group (ISWG), facilitates GSA's Green Building Advisory Committee, and represents GSA to the President's Pollinator Health Task Force. Sandler brings over 20 years' experience in sustainability, including as Founder and Co-Chair of EPA's Green Building Workgroup. In 2003, he drafted a report on Federal green building that has served as the basis for Federal legislation. He also helped develop the Guiding

Strategically Incorporating Sustainability, Resilience, and Footprint Consolidation in Portfolio Planning: An FFC Workshop

Principles for Federal Leadership in High- Performance and Sustainable Buildings, several Executive Orders and two major research agendas.

In 2003, Ken completed a rotation to the White House Office of the Federal Environmental Executive, where he drafted an influential report on Federal green building. He has served on numerous sustainability and buildings committees, including making major contributions to two national green building research agendas. Ken graduated cum laude in English and Political Science from University of Illinois in 1986, obtained a Master's in Political Science from University of North Carolina in 1989, and is currently pursuing a PhD in Environmental Science and Policy from George Mason University. Ken was a One-Day Jeopardy! Champion in 1999.



Brendan Owens, LEED Fellow, P.E.
Chief of Engineering, U.S. Green Building Council

Brendan oversees technical development and integration of rating systems at USGBC. In this role Brendan collaborates with teams developing LEED, PEER and other rating systems and led the team that established the over-arching system goals for LEED v4. He is currently working to integrate this thinking into the other programs USGBC collaborates with.

Brendan is a member of the integration committee working to align Standard 189.1, the IgCC and LEED. He is board member of the New Buildings Institute and is deputy director of the center for cycling technology at USGBC. Additionally, Brendan is a board member of the foundation USGBC is partnering with to build the William Jefferson Clinton Children's Center in Port au Prince, Haiti.

Brendan is a proud Boilermaker, a licensed Professional Engineer and was honored as a LEED Fellow in 2012.