



Defense Orientation Conference Association

Live: Virtual Conference

CONFERENCE READ AHEAD

Friday, June 5, 2020

8:00AM PDT to Noon PDT via Microsoft TEAMS

Energy Security Is National Security

Daily energy consumption can be taken for granted by the average American. The world we know today requires energy for almost all activities, not to exclude the energy required for national defense efforts. Energy security is national security because access to (relatively) cheap energy has become essential to the functioning of modern economies. To bring the importance of energy security into perspective, the primary U.S. energy consumption was almost equal to 100.2 quadrillion British thermal units (Btu), in 2019 ([U.S. Energy Facts Explained](#), *U.S. Energy Information Administration, May 7th 2020*). This statistic includes all five of the energy-use sectors (electric power, transportation, industrial, residential, and commercial). If there are threats to our energy production, then we can expect impact from supply or foreign disruption or by way of Mother Nature.

Energy Security is defined as the association between national security and the availability of natural resources for energy consumption. Disruptions in the supply of commodities used to produce energy tend to raise energy prices, imposing an increased burden on U.S. households and businesses. Disruptions can also reduce the nation's economic output and thus people's income.

To protect the energy we use, the United States Army, Navy, and Air Force have Installations, Energy and Environment (EI & E) offices to build energy resilience. Combined, their focus is establishing policies and providing strategic direction and supervision in all matters pertaining to operational energy resilience. Energy Resilience describes an entity's ability to withstand, or recover quickly from, disruptions in the availability and affordability of energy resource limitations facing our energy infrastructure. Additionally, they manage built and natural infrastructure, resilience of defense installations and bases, environmental programs, and facility related cyber control systems. Each office functions to ensure sustainability and operational readiness of their respective departments.

Over the duration of this virtual conference, viewers can expect to learn insights about how the U.S. manages their energy and how facilities such as Tyndall and Offutt Air Force bases are rebuilding with energy resilience in mind, following natural disasters. The read-ahead material is provided from a number of viewpoints and includes a variety of sources. Items in the read-ahead may be accessed by clicking on the item title.



Energy Resilience and United States National Security

North American Energy Resilience Model

U.S. Department of Energy, Office of Electricity (July 2019)

Full public document about the current energy resilience model.

Energy and the Three Levels of National Security: Differentiating Energy Concerns within a National Security Context

Partnership for Peace Consortium of Defense Academies and Security Studies Institutes (Fall 2009)

Scholarly article that proposes to define energy security in a national security context using a rudimentary three-level model of national security itself.

Energy Resilience Research

Energy Procedia, ScienceDirect (August 2018)

Literature review on the topic of energy resilience specifically addressed to the overall electrical infrastructural system, suggesting the move towards the definition of schemes or guidelines for municipalities aiming to reach concrete measure in enhancing energy resilience.

Alternative Financing for Energy Resilience Projects

Office of the Deputy Assistant Secretary of Defense, Energy (February 28th, 2020)

Strengthening the Security and Resilience of the Nation's Critical Energy Infrastructure

Office of Electricity (July 2nd, 2018)

Input from the Office of Electricity and the Office of Cybersecurity, Energy Security, and Emergency Response about what is needed and possible to master the threats and challenges facing energy infrastructure.

Energy Resilience and the United States Army

New Assistant Secretary Outlines Priorities for Army Installations, Energy and Environment

Defense Visual Information Distribution Service (July 5th, 2019)

The Honorable Alex A. Beehler is the 16th Assistant Secretary, sworn in January 2nd, 2019. His vision is to provide today's army with modern installations.

Resiliency of Military Installations to Emerging Threats

First Session, 116th Congress (October 16th, 2019)

Statement by the Honorable Alex A. Beehler to congressional subcommittee on intelligence and emerging threats and capabilities. The Army is the largest consumer of electricity and installation energy in the Federal government, and it spends more than \$1.1B annually.

Army Installations Test Energy Resilience

Surge, Energy Academic Group of the Naval Postgraduate School (Spring, 2020)

An update from the Honorable Alex A. Beehler about U.S. Army installations achieving energy resilience mission objectives.

Video: Prioritizing Energy Resilience in the Army

Government Matters (May 6th, 2020)

The Honorable Alex A. Beehler, Assistant Secretary of the Army EI & E, defines energy resilience and discusses what the Army is doing to sustain it. (7 minutes)



Energy Resilience and the United States Navy

Assistant Secretary of the Navy Statement

House Committee on Armed Services (October 16th, 2019)

A statement given by the Honorable Lucian Niemeyer, Acting Assistant Secretary of the Navy EI & E, about Naval energy and installation resilience priorities following the National Defense Strategy released in 2018.

Navy Sets Course for Installation Resilience with New Energy Strategy

The Office of the Navy Chief of Information, America's Navy (March 11th, 2020)

Introduction of the Department of the Navy's installation energy strategy.

DON-Installation-Energy-Resilience-Strategy

Department of the Navy (February 2020)

The full scope of the Department of the Navy's strategy to achieve energy resilience.

Largest Solar Farm in Tennessee Now Operational at Millington Naval Facility

Daily Energy Insider (April 26th, 2019)

Since leaving his executive position as an officer of the U.S. Army Reserve, The Honorable James B. Balocki, Deputy Assistant Secretary of the Navy EI & E, has been supporting energy projects such as this solar farm in Tennessee.

Energy Resilience and the United States Air Force

Hurricane Michael

National Hurricane Center (May 17th, 2019)

Hurricane Michael was the first Category 5 hurricane to strike the contiguous U.S. since Hurricane Andrew in 1992. Michael was the first Category 5 hurricane (on record) to impact the Florida Panhandle, where we find Tyndall AFB. Tyndall was "virtually scraped clean" because of the storm.

The Midwest Battles Historic Floods in the Aftermath of 'Bomb Cyclone'

NPR (March 16th, 2019)

The Midwest saw flooding across its states in March of 2019 due to a bomb cyclone. Flooding occurred as a result of the rapid melting snow dropped from the storm meeting frozen rivers. The Platte River, near Offutt Air Force Base, and other rivers experienced all-time record-breaking flood levels. Some sites made history with some floods reaching as much as 5 feet deep.

Q&A: Reconstruction and Resiliency

Air Force Magazine (February 1st, 2020)

With an engineering background, The Honorable John W. Henderson has worked on many projects leading to Air Force installation modernization. He believes that mission requirements and infrastructure readiness are intrinsically linked.

Building a Power Base

Airman Magazine (August 5th, 2019)

The Honorable John W. Henderson, Assistant Secretary of the Air Force EI & E gives light to the possibilities of an energy resilient Air Force Base.



Rebuilding Energy Resilience Post Natural Disasters

Among their list of responsibilities, the EI & E offices oversee the reconstruction of facilities damaged or lost to natural disaster. The disasters affecting both Tyndall and Offutt have been appropriated \$1.67 billion dollars to the supplemental funds, and the Air Force EI & E have proposed another \$3.6 billion dollars in other military construction. As of May 2020, both AFB's have been restored to their mission capabilities despite the proposed construction. A major portion of the reconstruction of the bases revolves around the resilience and generation of power.

Climate changes have also been a cause of concern for energy and installation resilience capabilities around the nation. The EI & E offices consider the research and data given them to continue to adapt, implement, and prioritize strategy.

[The Disaster Relief Fund Overview and Issues](#)
Congressional Research Service, November 22nd, 2019)

[USAF Fully Funded for Tyndall, Offutt Rebuilds](#)
Air Force Magazine (February 18th, 2020)

[Offutt Flood Recovery Operations Continue](#)
Offutt Air Force Base News (April 5th, 2019)

[Climate Change, Opportunities to Reduce Federal Fiscal Exposure](#)
United States Government Accountability Office (June 11th, 2019)

[Climate Resilience, DOD Needs to Assess Risk](#)
United States Government Accountability Office (June 2019)

[Implications of Climate Change for the U.S. Army](#)
The United States Army War College (October 2019)



Principal Speakers and Briefers



The Honorable Alex A. Beehler, *Assistant Secretary of the United States Army Installations, Energy and Environment*

Mr. Alex A. Beehler was confirmed by the U.S. Senate on Jan. 2, 2019, and sworn in as the 16th assistant secretary of the U.S. Army for Installations, Energy and Environment (ASA (IE&E)) on Jan. 10, 2019.

As ASA (IE&E), he is the primary advisor to the Secretary of the Army and Chief of Staff of the Army for all matters related to Army installation policy and oversight, and coordination of energy security and management. In addition, he is responsible for policy and oversight of sustainability and environmental initiatives; resource management, including design, military construction, operations and maintenance; Base Realignment and Closure (BRAC); privatization of the Army real estate portfolio and installations' Safety and Occupational Health programs.

Mr. Beehler previously served from 2004 to 2009, in the Office of Under Secretary of Defense for Installations and Environment, first as the Assistant Deputy for Environment, Safety and Occupational Health (ESOH), then Principal Deputy, and Acting Deputy Under Secretary. In those capacities, Mr. Beehler served as the principal assistant and advisor for all environmental, safety and occupational health policies and programs in the Department of Defense (DoD). Those programs included cleanup at active and closing bases, compliance with environmental laws, conservation of natural and cultural resources, pollution prevention, environmental technology, fire protection, safety and explosive safety, and pest management and disease control for defense activities worldwide. He also was the first Chief Sustainability Officer (CSO) of the Department of Defense.

Mr. Beehler also has extensive experience in private industry, where he served as a director of environmental and regulatory affairs. Mr. Beehler has maintained a strong background in federal environmental policy, having served in the Department of Justice as a senior trial attorney for environmental enforcement and at the Environmental Protection Agency as a special assistant for legal and enforcement counsel. He also served as staff counsel on the U.S. Senate Judiciary Committee. Mr. Beehler is a member of the bar of Maryland, Virginia and the District of Columbia. He received a bachelor's degree from Princeton University in public and international affairs and a law degree from University of Virginia.

Mr. Beehler and his wife Stephanie have two adult children.



The Honorable James B. Balocki, *Deputy Assistant Secretary of the Navy,
Installations and Facilities*

Mr. Balocki was appointed as Deputy Assistant Secretary of the Navy for Installations and Facilities in October 2016. He is the principal advisor to the Assistant Secretary of the Navy (Energy, Installations and Environment) on Navy and Marine Corps policies related to military construction, facilities sustainment, restoration and modernization; acquisition, use and disposal of real property and facilities.

Mr. Balocki served previously as the Chief Executive Officer and Director Services and Installations of the US Army Reserve at Fort Bragg, NC. He was responsible for the command's facilities and infrastructure worldwide, operation of classified and unclassified information networks, acquisition of services and supplies, and management of 12,000 DoD civilians.

From 2009 through 2013 Mr. Balocki held two senior executive service positions with the US Army Corps of Engineers in Washington, DC, where he was responsible for engineering, infrastructure, environmental, scientific, and technical support to the Services, combatant commands and embassies; federal, state and local government agencies; foreign governments; and non-governmental organizations.

Mr. Balocki deployed to Afghanistan in 2011, serving as the Director, Joint Programs Integration Office, Headquarters, US Forces-Afghanistan. He oversaw US and NATO construction programs to establish Afghan National Army and Police forces. He also worked closely with the State Department, US Agency for International Development, and the Government of Afghanistan.

Mr. Balocki was selected to the Senior Executive Service in July 2009 after completing a 28 year career as an active duty Engineer Officer in the Army.

Mr. Balocki's significant training includes attending the National Defence College, Islamabad, Pakistan; CAPSTONE, National Defense University; and Senior Executive Fellow, Harvard University. He holds master's degrees in Civil Engineering, Systems Management, and Defence and Strategic Studies.

Mr. Balocki maintains a current Professional Engineer license in the Commonwealth of Virginia. He is a member of the American Society of Civil Engineers. His awards and decorations include the Meritorious Civilian Service Award, Army Engineer Regiment, Silver deFluery Medal, Legion of Merit, and American Society of Civil Engineers "Best Practice Paper."

Mr. Balocki has published several articles related to resume and interview preparation, passing a SES qualification review and hiring federal employees.



Mr. Gary Chesley, Director of 55th Civil Engineer Squadron
Offutt Air Force Base, Nebraska

The 55th CES is responsible for all engineering, architecture, environmental, real estate, housing, dormitory, emergency management, and fire protection services for the 57,000 active duty, retiree, and family members supported by the 55th Wing and the 53 partner organizations at Offutt Air Force Base. As Air Combat Command's largest wing, Offutt hosts 7.2 million square feet of facilities and infrastructure valued at \$3.6 billion.

Mr. Chesley is a registered professional engineer. He holds a Bachelor of Science degree in Civil Engineering from the U.S. Air Force Academy and graduate degrees in Civil & Environmental Engineering (University of Iowa), Public Administration (Troy State University), and Strategic Studies (U.S. Army War College). He is a level III Acquisition Official in Facilities Engineering and a Fellow in the Society of American Military Engineers.

Mr. Chesley retired from the U.S. Air Force as a colonel in 2013 with over 28 years of active duty service in Civil Engineering and Mission Support.



Mr. Lowell Usrey, Chief, Integration Division AFCEC, PMO

Mr. Usrey currently serves as the Integration Division Chief in the Program Management Office (PMO) for the Tyndall AFB rebuild. Mr. Usrey is a Project Management Professional (PMP), a Leadership in Energy and Environmental Design Accredited Professional (LEED-AP), and a Certified Energy Manager (CEM). In addition, Mr. Usrey holds Network+, Security+, and Cybersecurity Analyst certifications.

As the Integration Division Chief for the PMO, Mr. Usrey is responsible for the coordination and integration of technology, cybersecurity, and energy resilience requirements for existing and new facilities and infrastructure. He is also responsible for coordinating and integrating efforts between the Secretary of the Air Force, Headquarters Air Force, Air Combat Command, the Air Force Civil Engineer Center, and the 325th Fighter Wing.