



Installation Energy & Water Plan Guidance Development Update



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Background



- **Mar 2016 OSD memo** requires installation energy plan (IEP) to
 - Assure future energy, water demand
 - Achieve requirements (Congress, White House, DoD, Army)
 - Lower costs
 - Facilitate stakeholder cooperation
- **Dec 2017 Issue Interim Guidance**
- **Mar 2018 Final Guidance**
- **Mar 2019:** Signed IEPs for 75% total Army energy consumption





Installation Energy and Water Plan



- Reviewing Existing Army Plans
 - Crosswalk to obtain any redundancies or gaps
- Establishing criteria for determining 75% of consumption
- Developing Metrics
- Develop standardized SOW
- Meet 14 day mission critical requirement for energy and water through

MEMORANDUM FOR ASSISTANT SECRETARY OF DEFENSE
OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
ENERGY AND ENVIRONMENT
DATE: 3 1 2011

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (INSTALLATIONS, ENERGY AND ENVIRONMENT)
DATE: 2011-02-27

Army Regulation 429-1
Facilities Engineering
Army Facilities Management

Department of the Army
Paraphrase 323-27
Military Operations
Army Emergency Management Program

SECRETARY OF THE ARMY
WASHINGTON
22 FEB 2010
MEMORANDUM FOR SEE DISTRIBUTION
Subject: Directive 2017-07 (Installation Energy and Water Security Policy)

UFC 4-200-01
20 JUNE 2016
A complete list of references is in enclosure 1.
establish requirements for Army energy and water security to enhance Army installations.
Secure and reliable access to energy and water is essential to Army installation missions. Vulnerabilities in the interdependent electric and gas systems, and other resources supporting Army installation operations and installation security, and the Army's ability to project and sustain global operations. This directive establishes overarching Army security policy to sustain critical mission capabilities and mitigate risks to energy and water infrastructure affecting installations. Detonations are in...

UNCLAS
Rapid Action Revision (RAR)

DoD BUILDING CODE
(GENERAL BUILDING REQUIREMENTS)

APPROVED FOR PUBLIC RELEASE

Version 1
DEPARTMENT OF THE ARMY
POLICY GUIDANCE
FOR
ENERGY AND WATER PLANS



Army Installation Status Report Mission Capacity



Installation Status Report (Mission Capacity) (ISR-MC) provides a standard platform for evaluating Army installation energy and water security posture to inform Army decision-making

Metrics align with Directive requirements:

- Critical Mission Sustainment
- Assured Access
- Infrastructure Condition
- System Operation

Major Activities

- Issue Guidance
- Develop Metrics

Data Importance

- Project Development
- Funding
- Establish Relationships with Providers

MEASURE	SUB-MEASURE	SUB-MEASURED RATING	FY17 PoC	
Energy	Assured Access	a. Relationship with Utility Provider	SUB-MEASURED RATING	FY17 PoC
		b. Power Reliability		
		c. Power Quality		
		d. Redundancy of Supply		
		e. Diversity of Supply		
	Infrastructure Condition	a. System Reliability		
		b. Distribute generation sources		
		c. Redundancy		
		d. On-site Storage Capacity		
		e. Condition assessment		
	System Operation	a. Complete Security & Response plans		
		b. Planning coordination		
		c. Adequate personnel		
		d. Exercises of plans		
	Critical Mission Sustainment	a. Emergency response coordination		
b. Identification and prioritization				
c. Vulnerability				
d. Emergency operations				
e. Restoration procedures				
	System Operation	b. Adequate personnel		
	System Operation	c. Adequate plans		
	System Operation	d. Exercises of plans		
	Critical Mission Sustainment	a. Emergency response coordination		
	Critical Mission Sustainment	b. Identification and prioritization		
	Critical Mission Sustainment	c. Vulnerability		
	Critical Mission Sustainment	d. Emergency operations		
	Critical Mission Sustainment	e. Restoration procedures		



Comprehensive Guidance



- **Purpose**

- Guidance to installation personnel for energy and water planning
- Technical guidance to collect and analyze data, develop solutions, document approaches, and roadmap execution of projects

- **Opportunity**

- Exceed OSD planning requirements
- Meet new Army installation energy and water security requirements
- Alignment of efficiency and security/resilience requirements

- **Schedule**

- December 2017 – Issue interim guidance
- NLT March 2018 – Issue final guidance

Draft Guidance Outline

1	Introduction
2	IEWP Overview
3	IEWP Responsibilities
4	Installation Profile
4.1	Current Installation Requirements
4.2	Future Requirements
4.3	Facility Benchmarking
4.4	Energy and Water Management
4.5	Energy Security
4.6	Water Security
5	Vulnerability Assessment
6	Analysis and Solutions
7	Project Planning and Funding Strategy Roadmap



Questions???