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**Director, Strategic Operations**  
**Power Surety Task Force, OSD**

- 1. The world has changed**
- 2. We must rethink our energy sources**
- 3. We can leverage these changes**

# Kicking the Anthill



**w/Drexel Kleber**

**Not Here to Change Your Mind, Just Engage Your Mind**

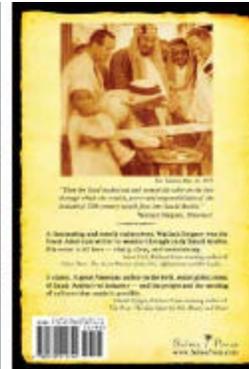
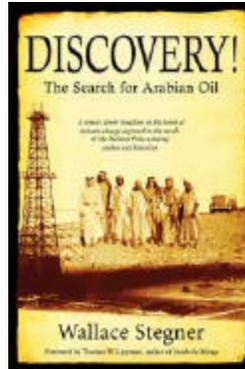
By the late 1800s we hadn't come that far



# The Discovery of Oil

☞ Titusville PA 1859

☞ Persia around 1900



# The Creation of the Electric Grid



## Creating the Context for Conflict



## The World Started to change

☞ 1973 Oil Embargo



☞ The Carter Doctrine



Let our position be absolutely clear: An attempt by any outside force to gain control of the Persian Gulf region will be regarded as an assault on the vital interests of the United States of America, and such an assault will be repelled by any means necessary, including military force.

Abu Dhabi

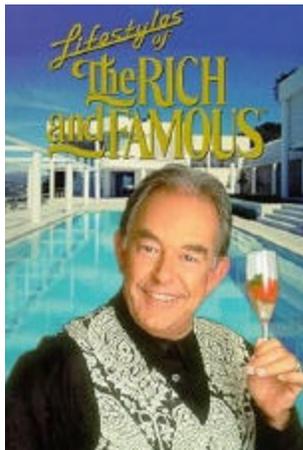


Miami



The 1980s

↳ Reagan Years



## Operation Desert Storm

☞ It's a war for oil....duh

☞ We want what we want



## The World is Changing



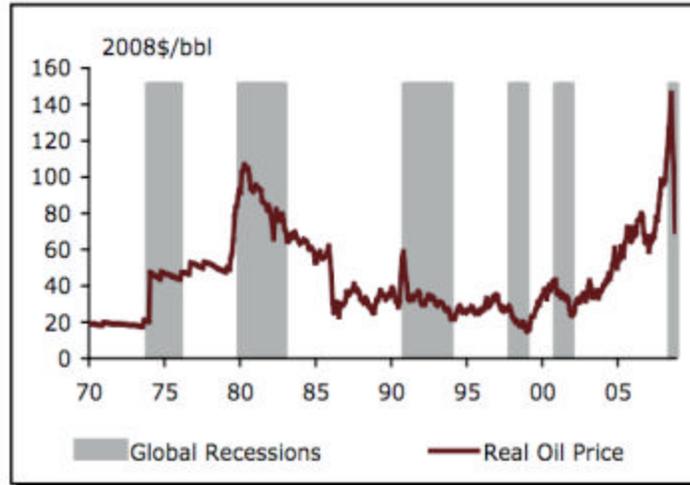
☞ India/China

☞ Russia invades South Ossetia



## Economic Impacts

### Past Recessions and Oil Spikes



## Concern over Global Climate change



## The Message is Slowly Getting Out

☞ Interest in renewables

☞ Changing the way we do things

So what have we learned?

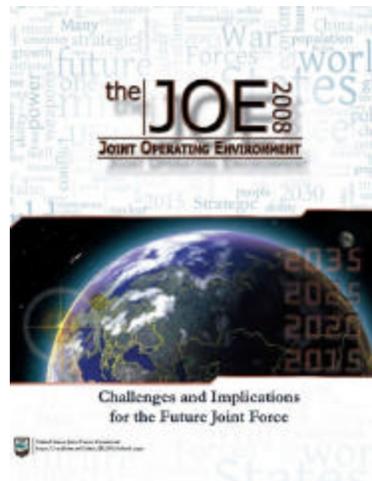
v1.0 has major problems.

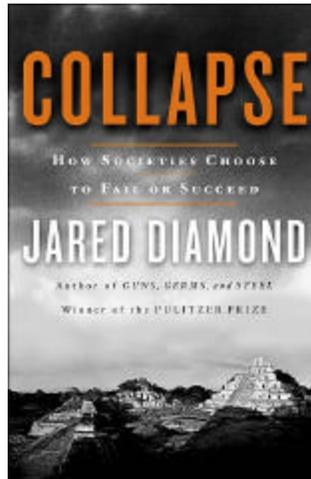


## We now have to rethink oil/energy



☞ We plan for high risk/  
low probability  
scenarios: it's our job





## Haiti Earthquake , Jan 2010



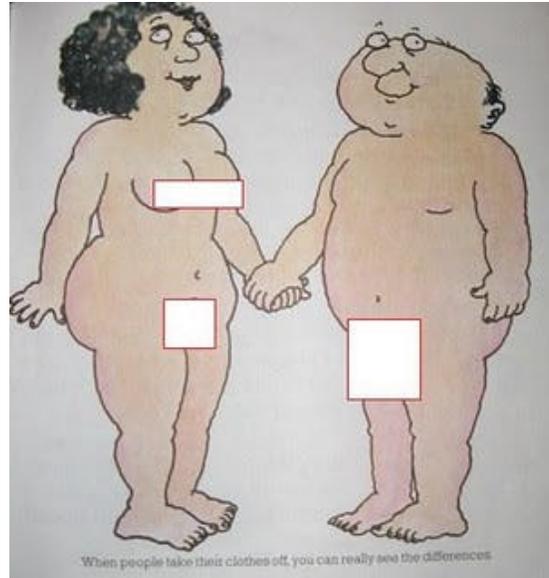
## DoD and Energy Consumption



## Energy is a Critical Weapon of War

- ☞ Awareness
- ☞ Behavior
- ☞ Pornography





## We Train What We Value



We Train What We Value



We Train What We Value

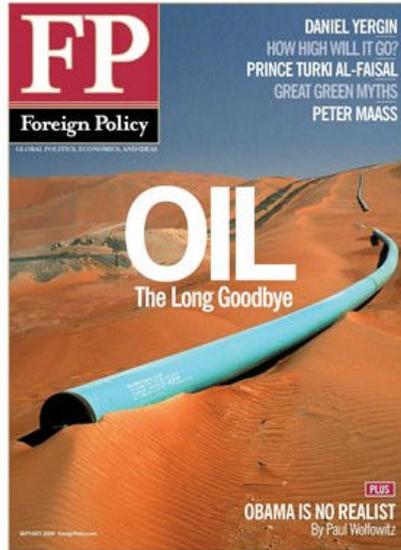




### C3I

## Renewables on the battlefield





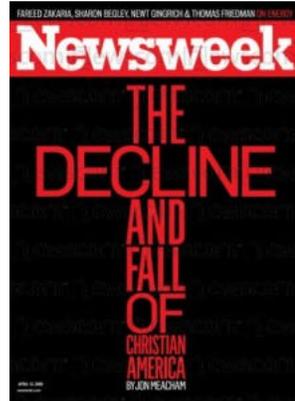
## Are We Asking the Right Question

☞ Now the question is, "Where is the power coming from?"



## Leveraging Changes

- ☞ The variability of desirability limits possibility



## Who Wants What, Where and When

- ☞ The climate change crowd wants a reduction in GHG
- ☞ Budget folks want renewables to be cheaper today and tomorrow.
- ☞ GAO Report: no guidance
- ☞ The military wants power surety
- ☞ Our Commander in Chief wants to wrap up a war in Afghanistan



## It Starts with Energy

☞ The real lesson of the 20<sup>th</sup> Century

☞ Climate Change is a symptom

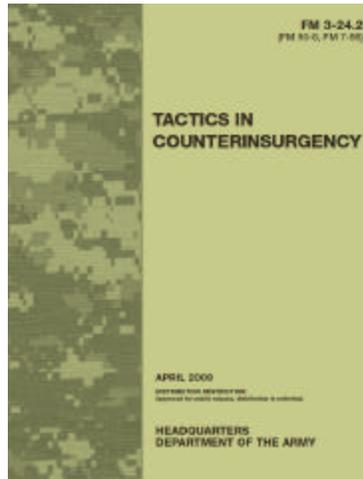


## DoD, Afghanistan and the Developing World

☞ Increasingly DOD is involved in reconstruction



## They Get it.....



### Introduction

“At its heart, a counterinsurgency is an armed struggle for the support of the population. This support can be achieved or lost through information engagement, strong representative government, access to goods and services, fear, or violence. This armed struggle also involves eliminating insurgents who threaten the safety and security of the population. However, military units alone cannot defeat an insurgency. Most of the work involves discovering **and solving the population’s underlying issues**, that is, the root causes of their dissatisfaction with the current arrangement of political power. Dealing with diverse issues such as land reform, unemployment, oppressive leadership, or ethical tensions places a premium on tactical leaders who can not only close with the enemy, but also negotiate agreements, operate with nonmilitary agencies and other nations, restore basic services, speak the native (a foreign) language, orchestrate political deals, and get “the word” on the street.”

## FM 3-07 again....

- 3-61. Host-nation enterprise creation is an essential activity whereby the local people organize themselves to provide valuable goods and services. In doing so, they create jobs for themselves, their families, and neighbors that are inherently sustainable after the departure of other actors.
- Host-nation enterprises may provide various goods and services, including essential services such as **small-scale** sewerage, water, **electricity**, transportation, health care, and communications. The availability of financing through banking or microfinance institutions is essential to enterprise creation.



# Why Energy is Most Important

We cannot do any of the modern infrastructure development without power.

In the information age, it is not enough to just provide water, modern agricultural techniques and rule of law.

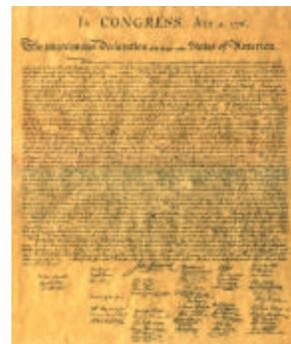
Globalization requires:

- ☞ Connectivity;
- ☞ Access to information and electricity, which provides—
  - increased economic and geographic mobility;
  - Changing lifestyles;
  - Access to education
  - Access to markets
  - Tele-medicine;
  - The pursuit of new dreams.



# British Foreign Secretary David Miliband

☞ “Our greatest resource in Afghanistan is the fact that the Afghan people don’t want to go back to Taliban misrule.”



## Why Should DoD Be Involved in Power?



## Customer Service

Soldiers engage the population on a daily basis. They are the face of the United States.



## Job Description

Current Army doctrine demonstrates the important responsibility of our soldiers to carry out Counter Insurgency and Stability Operations as part of their duties in the



3-35. At the tactical level, activities of military forces to provide essential civil services are often defined in terms of the immediate humanitarian needs of the people: providing the food, water, shelter, and medical support necessary to sustain the population until local civil services are restored.

Once their immediate needs are satisfied, efforts to restore basic services and transition control to civil authorities typically progress using lines of effort based on the memory aid, SWEAT-MSO (sewage, water, electricity, academics, trash, medical, safety, and other considerations).

## Proximity

DoD personnel are currently present and proximate to the areas most in need of service. They are engaged with the local citizens and they are invested in the success of the community.



# Distribution

“An idea is one thing. Distribution is everything.”

DoD can leverage its assets, experience and capabilities with a pre-established distribution system in place to acquire, transport, and deliver distributed power generation to the indigenous population.



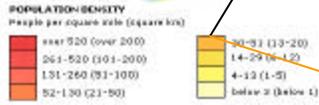
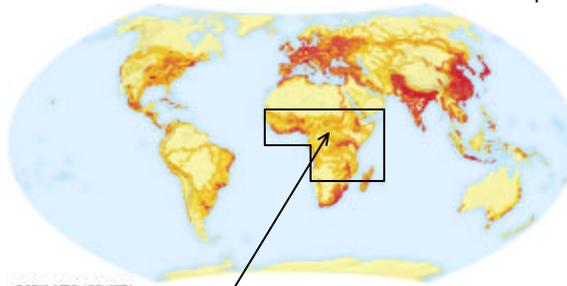
# Distributed Power is Superior



Project Completion in Years

Project Completion in Days

### Should AFRICOM be in Phase IV Ops Already?



What do we see?

Where the people are, so too exists power.

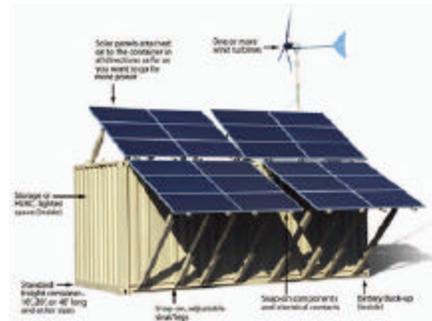
Except in central Africa.

There are many people and virtually no power.

So, where's the opportunity to extend America's influence?



Black 6, this Red 1, "I need MPP- S4W1, Classroom Mod Alpha, and 6 Desktops, Over."



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**Treat it like one.**