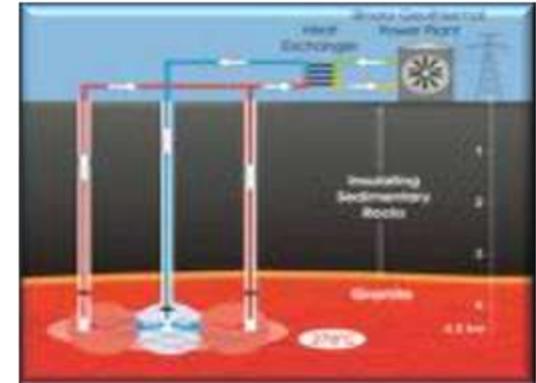


## MG Howard B. Bromberg Commanding General Fort Bliss, Texas

6 October 2009



## Fort Bliss Becomes the Army's Center for Renewable Energy by 2015

*A Fully Integrated Approach  
that will demonstrate  
Army / National Leadership in Energy*

**ENERGY SECURITY**

**SURETY    SUPPLY    SUSTAINABILITY    SUFFICIENCY    SURVIVABILITY**

**Status Quo Is Not An Option!**

**Energy conservation and management efforts alone cannot achieve directed goals**

## Fort Bliss Renewables:

### *Unique Opportunity*

Geothermal

Solar  
Thermal

Solar Day  
Lighting

Solar  
PV

Wind

Biomass

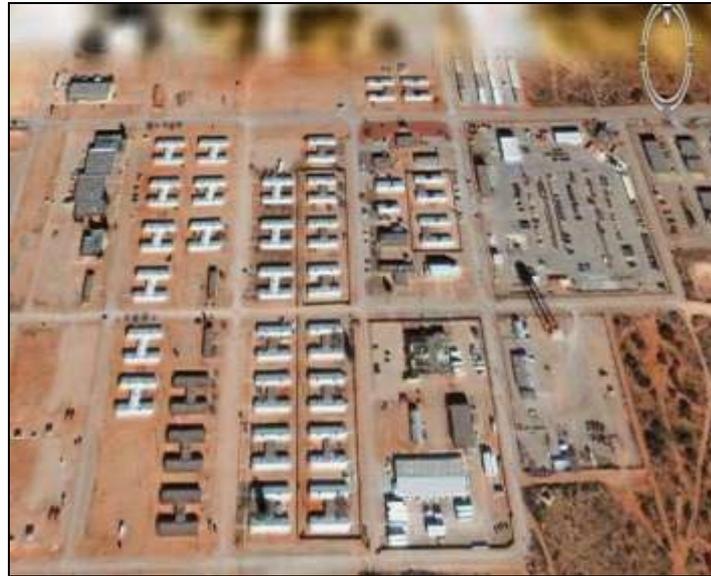
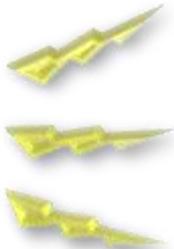
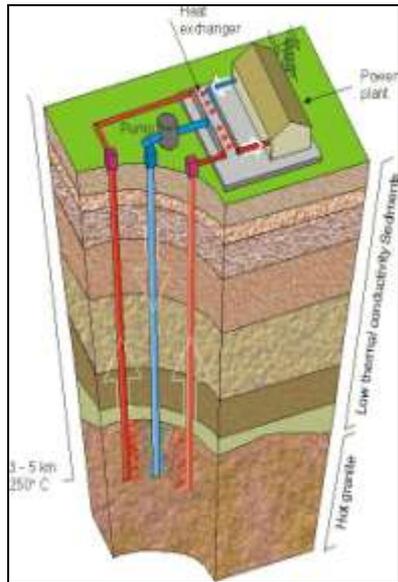
**330+ Days of  
Sunshine!**

- Confirmed potential by three independent studies
- Largest DoD Growth
  - \$4.8B in Construction
  - 300% Population Increase
- Home of BCT Modernization
- Premier Joint Mobilization Station
- Power Projection Platform
- Joint/Interagency Training Capability
- Superb Community Support/  
Partnership Potential

***“Fort Bliss is ideally situated to generate renewable energy to meet mandated goals and will play a significant role in contributing to Army-wide performance.”***

**- Tiger Team Assessment (Final Report)**

## McGregor Range Base Camp



**Training  
Mission  
Continues**

- The best evaluated in the Army renewable assessment
- 1996 test wells found 170° - 190°F water
- No negative environmental impact
- Takes the base camps and other training camps off the grid
- Cost effective – once implemented, price is fixed
- Great potential for PPP venture

## ENERGY CONSERVATION

Day Lighting  
Building Insulation  
Solar Hot Water  
Transportation  
Off Grid Strategy  
ARRA/Energy Projects  
Business Operations Command Center  
Energy Savings Performance Contract  
Energy Conservation Improvement Pgm

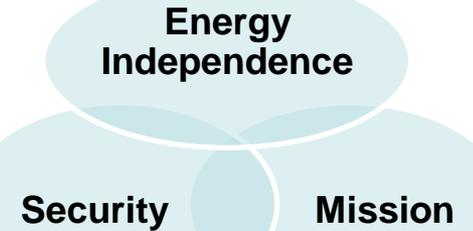
**\$45M**

Funded/  
Programmed  
To-Date by  
Fort Bliss



## RENEWABLE 10 YEAR TARGET

10-15 MW Geothermal  
20+ MW Wind  
15-20 MW Solar  
Off Grid Projects



## Partnerships

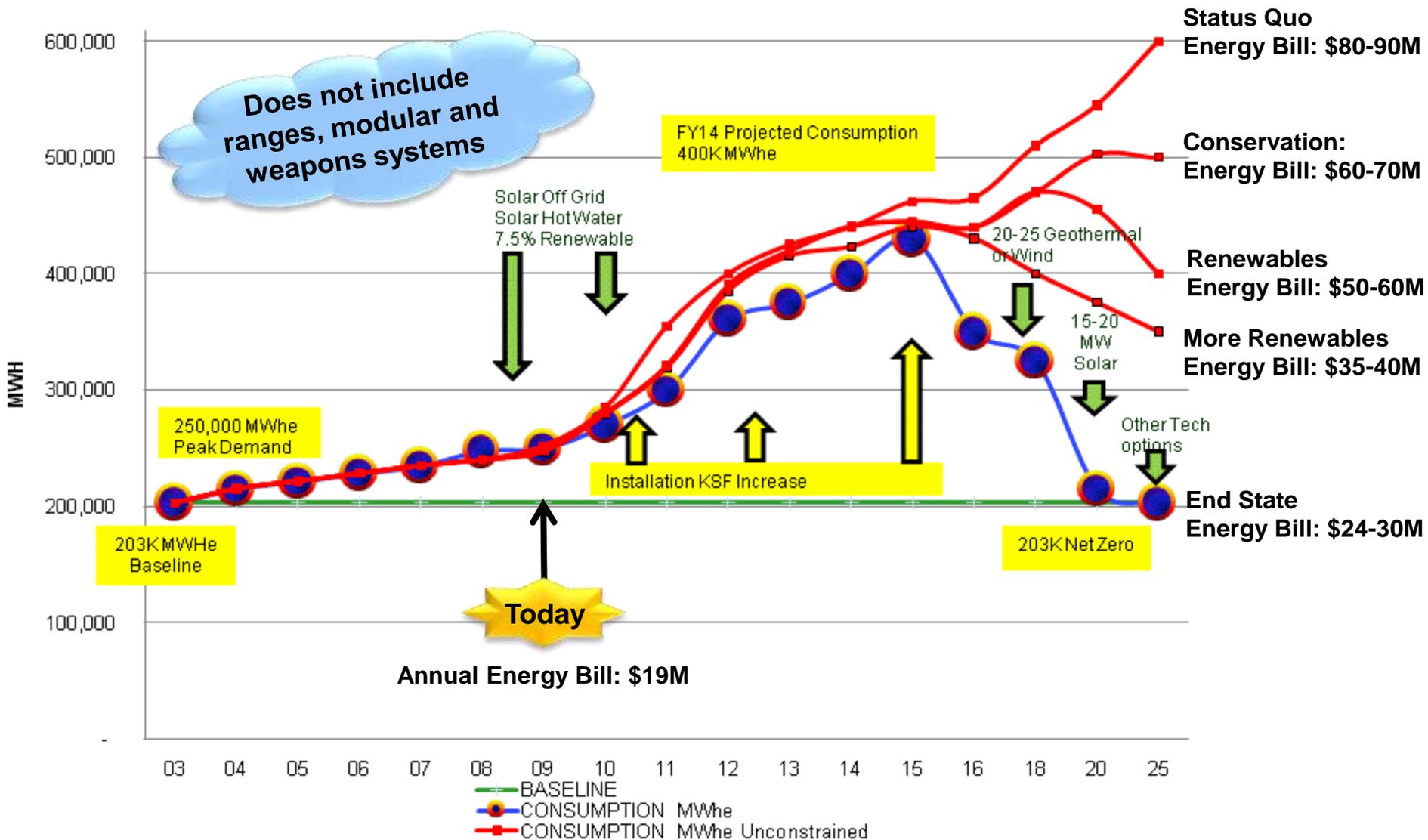


- **Designate Fort Bliss as the Army's Center for Renewable Energy**
- **Act on Tiger Team/Independent Analyses to meet national goals and establish the Army as the National Leader**
- **Fully integrate center's goals with BCT modernization efforts**
- **Requirements for Establishing the Center of Excellence:**
  - Near Term: \$7M to implement the Tiger Team recommendations in FY10
  - Long Term: Fund the following in 12 – 17 POM
    - \$60M investment for 20 MW of Geothermal at the Ranges
    - \$10M for a Solar Array Project
    - \$10M for a Wind Project
    - \$10M for Biomass Project



**Questions?**

# Energy Milestone Projection



- **Department of Energy:**
  - Received \$675K funding toward implementing Tiger Team recommendations
  - 10 – 11 Sep: FEMP Team Site visit
  
- **Strategic Communications/Engagements:**
  - **Completed Engagements:**
    - 30 Jul: MG Bromberg Brief to Senior Energy Council
    - 17 Aug: BG Anderson, Office of the Deputy Chief of Staff, G-4
    - 24 Aug: Representative Gabrielle Giffords, D-8-AZ
    - 3 Sep: Representative Silvestre Reyes, D-16-TX
    - 15 Sep: LTGOV Dewhurst
  
  - **Future Engagements:**
    - 5 – 7 Oct: AUSA National Meeting
    - Cathy Zoi, Assistant Secretary for EE and RE, DOE
    - CODELS
    - Industry Forum
    - Chamber of Commerce Energy Task Force