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A River of Energy Solutions

Are you GREEN?

Frank Napoli Network Energy/Fleet Manager-VISN 3

VA Nationwide – Greening Initiatives

VA Green Routine



Department of
Veterans Affairs

VA ENERGY PORTFOLIO

- Approx. 300 facilities with approximately 147 million square feet
 - VA is intensive user compared to other federal agencies
 - 6th highest agency in energy consumption intensity
 - 3rd highest in water consumption intensity
 - However, VHA energy intensity (KBtu/sq.ft.) is lower than national average for hospitals
- VA's energy and water cost and consumption:
 - Energy: \$500 million ■ 28 billion Btus
 - Water: \$30 million ■ 9 billion gallons
- VA's Vehicle Fleet Inventory:
 - Inventory: 12,500 vehicles
 - Alternative fuel vehicles: 4,600
 - VA vehicles traveled 126,167,890 miles

FOUR CORE PROGRAM AREAS

❑ Energy-Water Management

- Energy water efficiency and renewable energy investments • Commodity purchasing • Operations and maintenance

❑ Environmental Management

- Green purchasing • Electronics stewardship • Recycling and waste prevention • Chemicals management • Environmental management systems • GHG

❑ Transportation (Vehicle Fleet) Management

- Vehicle acquisition and disposal • Utilization and maintenance • Fueling/alternative fuels

❑ Sustainable Buildings (cross-cutting area)

- New construction and major renovation: Design standards • Project planning • Project execution
- Existing buildings: Assessments • Standards and guidance • Certification

Cross-Cutting

- Education, training, and awareness
- Data collection, analysis & reporting

EIGHT STRATEGIC OBJECTIVES

1. Reduce Carbon Footprint
2. Create Green Buildings
3. Implement More Renewable Energy
4. Expand Green Practices
5. Enhance Environmental Compliance
6. Increase Energy Efficiency
7. Improve Vehicle Fleet Performance
8. Education, Training and Awareness

VA's Goal

Activate behavior change in 300,000 VA employees at hundreds of facilities nationwide towards more sustainable practices:

- Energy conservation
- Resource conservation
- Recycling
- Energy efficiency



“Think Green”

VA's Green Routine

- ▶ Created Greening VA Working Group
- ▶ Promoted initiatives at employee events:
 - Energy Awareness Month (October)
 - America Recycles Day (November)
 - Earth Day (April)
- ▶ Designed grassroots Awards program
 - ▶ Green Routine Awards
- ▶ **Resources:**
 - VA Green Routine website
 - Video
 - Toolkit
 - Facilities Action Plan

VA Green Routine



 Department of
Veterans Affairs

Energy Awareness Month

- Energy Pledge Week
 - Employees sign pledges, such as:
 - Turn off lights & monitors
 - Recycle more
 - Print double-sided

THE GREEN ROUTINE PLEDGE

Yes! I will:

- Turn off lights and monitors when not in use
- Recycle more at work and home
- Print double-sided at all times

Signature _____ Email Address _____

Print Name _____ Office Code _____



Website

- ▶ www.va.gov/greenroutine
- ▶ Access to Toolkit and Video
- ▶ News and Events
- ▶ Green Tips & Facts
- ▶ Resources to other gov't sites
- ▶ Green Routine Awards – winning projects

Veteran Integrated Service Network # 3 (VISN 3)



“ . . We are all part of the Green Team . . ”

Challenges in Greening VISN 3

- Diversity of facility types
- Large # of employees
- Getting Qualitative measurements
- Lack of a concrete budget or NO budget at all
- Need for facility and VISN level champions to drive activities
- Need for diversity in composing “green teams”
- Motivation and training of busy facility staff

Challenges in Greening VISN 3

- 12,000 Employees
- 264 Owned Buildings
 - 98 Buildings – potential historic designation
 - 155 Buildings greater than 50 years old
- 8.6 Million Gross Square Feet
- 1010 Acres
- 44 leases



“ . . Engage the Stakeholders . . ”

VISN 3 Green Team

-A Partnership-

- Green Team Makeup
 - Representatives from various sections from within the VISN
- Green Team Sub-Committees
 - Transportation & Fleet management
 - Energy/Water and Gas Emissions Reduction
 - Environmentally Preferred Purchasing
 - Recycle, Reuse & Reduce
 - Waste Management
 - Education, Awareness & Promotional Campaign





The Mission - - The Message

“Greening the VISN through Innovation”

- The mission of the VISN 3 Green Team is to support the goals of the VA Core Base Programs and promote an “Energy Wise” Culture at the VA
- Promotes Infrastructure and Grass Roots Development
- Operational Management Improvements
- Awareness & Training Opportunities





The Mission - - The Message

“CONNECT THE SILOS”

The “Cylinders of Excellence”



GEMS

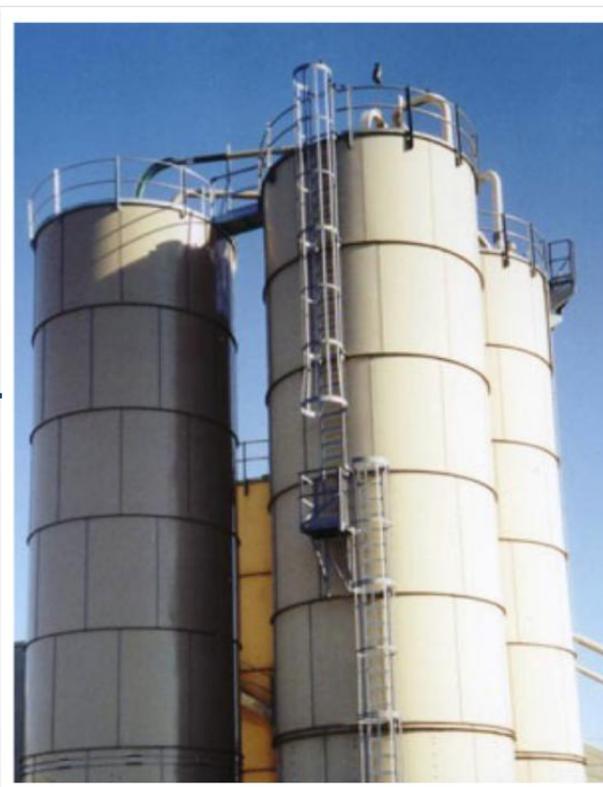
ENERGY

**PROCUREMENT
&
CONTRACTS**

**CLINICAL
SECTIONS**

**EDUCATION
&
TRAINING**

**ENGINEERING
&
OPERATIONS**



Renewable Energy

- VISN 3 Actions
 - **Bronx**
 - Currently designing & installing solar energy PV System
 - **Manhattan** –
 - Wind turbine design/build project underway
 - **Hudson Valley**
 - Installed wind turbine at Castle point
 - Installed Solar Energy (PV system) at Montrose



Currently performing 9 feasibility studies for Solar Energy system (Both PV & Thermal) and wind turbine projects at other VISN 3 facilities



*GEMS & Energy Sections

- GEMS Program Initiatives:
 - Emissions , waste, & effluent management
 - Resource protection air, water, soil etc.
 - Regulatory compliance-Federal, State, City

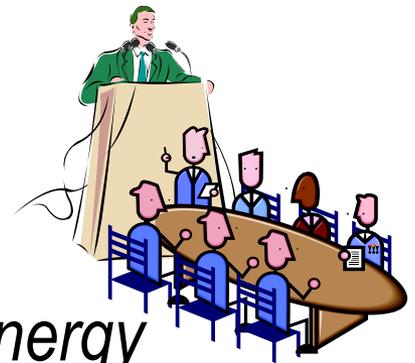
- Energy Program Initiatives:
 - Energy & water Management
 - Reduce Green House Gas Emissions
 - Application of renewable resources



*Green Environmental Management System (GEMS)

GEMS/Energy Synergy Model

- Create forums for mutual exchange
- Inter-program Advisory Group participation
- VISN Level Councils/Teams
- VISN Green Team & Committees
 - *Engage Stakeholders*
 - *Advance Environmental Stewardship & Energy Innovation*



VISN 3 Energy Project Competition

- Invited new project Ideas
- Criteria & approach
 - Innovative approach - focus on energy & water conservation, renewable energy, reduction GHGs
 - 5 VA Medical Centers submitted projects
 - Technical Evaluation Panel that included the Chiefs of Engineering from each Medical Center
 - One winner - Project was approved for funding (\$2 million) and is currently out for bids



VISN 3 “Energy-Wise Campaign”

“Engage the Stakeholders”

- Campaign to solicit energy innovation ideas
- Engage and recognize stakeholders
- All employees eligible
- Original ideas for energy innovation
- Judged by VISN Green Team
- Promote on Earth Day
- Awards ceremony with Director
- Give time off and/or Cash award



Green Globe and the VHA

- 21 Medical centers have had a Green Globe assessment
- 18 medical centers have received a 3 globe rating
- 3 medical centers have received a 2 globe rating



Green Globe at Brooklyn Campus

- Received 3 Globes
 - Total 13 Buildings
 - 818,000 sq. ft. with 31 elevators



Recycling: Salvageable Materials

- VHA Environmental policy:
 - Specifies recycling from Medical Center activities, initiating programs for cost-effective waste prevention and recycling of usable materials.
- Recyclable items are commodities.
- VHA Directive 2006-001:
 - Recycling for revenue at all Medical Centers

Recycling & Revenue

- Assessment
 - Aspect and Impact surveys help you to inventory potential streams salvageable for recycling.
- Determine Markets
 - Locate scrap dealers
 - Specify terms
 - Price fluctuates with market (www.lme.com)

Recycled Streams



New York City Skyline



Energy Conservation – NOT!



Don't you want to be Green?



The Grass is Greener on the other Side

- ***“Things do not change; we change”***
~Henry David Thoreau
- ***There is nothing more difficult to take in hand, more perilous to conduct, or more uncertain in its success, than to take the lead in the introduction of a new order of things.***
~Niccolo Machiavelli

Be GREEN & Save the Earth



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