Office of Management

VA Office of Asset Enterprise Management (OAEM)
VA Energy Management Program Service (EMP)

www.energy.va.gov

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VA MISSION

To care for him who shall have borne the battle and for his widow, and his orphan.
- Abraham Lincoln, 1865

Today, we say to care for those “who shall have borne the battle,” and for their families and their survivors.

- VA provides medical care, financial benefits, and memorial services to our Veterans and families
- Resiliency and Sustainability is essential and fundamental to achieving VA’s mission
- VA strives to provide healthy, productive and cost effective environment for Veterans, employees, and visitors
- VA is regularly incorporating sustainable practices into day to day business processes and decision making
VA TODAY ~ Approximately

- 20 Million Veterans (380,000 Employees); $200 Billion Budget
- 7-9 Million served at VA hospitals and clinics
- Pension benefits for nearly 393,000 Veterans and Survivors
- 150 Hospitals (Owned Bldgs 6,277 (2,263 Historic), GSA Leased 1,958) plus EUL program (100 + since 1991)
- 180 Million Sq.Ft. of total space (30% GP compliant) incl. leased assets
- VA Hospitals use 150K BTU/GSF vs. 231K BTU/GSF at Private Hospitals
- 37 + Hospitals are Energy Star Certified (24% of total Sq.Ft.)
- Energy intensity down 28.6% vs. 2003
- Water intensity down 34.5% vs. 2007
- GHG Scope 1&2 down 11% vs. 2008
- 91 MW of PV Solar installed
- Awarded over $860 Million in ESPC & UESC projects
- Fleet (Owned) 4,600; (Leased) 17,000
- Won Numerous Awards and Recognitions
ENERGY MANAGEMENT PROGRAM

Major Program Areas
- Energy Management
- Environmental Management
- Sustainable Buildings
- Vehicle Fleet Management

Key Functions
- Establish and distribute agency-level policies and programs; oversee implementation; report on results
- Coordinate internal efforts to meet targets and fulfill requirements
- Produce data, analysis and performance reporting for OMB, CEQ, DOE, EPA, GSA, Congress
- Represent VA in interagency forums and provide expert input on proposed language impacting Federal agencies
## ENERGY AND WATER MANAGEMENT

### FY 2019 Data (*Preliminary/not yet approved by DOE*)

<table>
<thead>
<tr>
<th>VA Mission Increase</th>
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<tbody>
<tr>
<td>Number of Employees vs. 2008</td>
<td>+ 52%</td>
</tr>
<tr>
<td>Patient Load (Visits Per Day) vs. 2008</td>
<td>+ 41%</td>
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<table>
<thead>
<tr>
<th>Energy and Water Performance</th>
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<tbody>
<tr>
<td>Energy Intensity (MBtu/GSF) vs. 2003 baseline</td>
<td>- 28.5%</td>
</tr>
<tr>
<td>Potable Water (Gal/Sq.Ft) vs. 2007 baseline</td>
<td>- 34.5%</td>
</tr>
<tr>
<td>Renewable Electricity Used as % of Total Electricity Consumption</td>
<td>10.5%</td>
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ENERGY MANAGEMENT HIGHLIGHTS

- 170 covered facilities representing 95% of energy use
- FY 2019 energy cost of $459 million
- Program office for all Energy Performance Contracts (ESPC, UESC)
  - Awarded $868 million since 2011
- Oversee centralized energy commodities purchasing program
  - $249 million in avoided costs over the life of contracts awarded to date
  - 1,950 RECs acquired
- Without VA’s energy management initiatives since 2008, VA estimates it would be paying over 70% more for utilities

VA utility cost per sq ft. has significantly decreased while patient load has sharply increased

* 2019 figures preliminary, pending DOE approval of VA energy report
$868 million awarded
$334 million in development
$1.0 billion potential avoided costs from projects in development
$1.1 billion expected avoided costs from awarded projects
$51 M annual expected avoided costs
~32 M sq. ft. upgrades
~$44 M annual potential avoided costs
# FLEET MANAGEMENT

## FY 2019 Data

<table>
<thead>
<tr>
<th>VA Mission Increase</th>
<th>Change</th>
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<tbody>
<tr>
<td>Number of employees vs. 2008</td>
<td>+ 52%</td>
</tr>
<tr>
<td>Number of vehicles vs. 2008</td>
<td>+ 75%</td>
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## Fleet Performance Tracked on OMB Scorecard

<table>
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<tr>
<th>Petroleum consumption increase since 2005 (required: &gt;20% decrease by 2015)</th>
<th>+4.2%</th>
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<tbody>
<tr>
<td>Petroleum consumption increase since 2018 (year-to-year reduction expected)</td>
<td>+2.1%</td>
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<tr>
<td>AFV acquisition % in 2019 (75% required)</td>
<td>101%</td>
</tr>
<tr>
<td>Alternative fuel as a % of total fleet fuel use (no benchmark)</td>
<td>9.5%</td>
</tr>
</tbody>
</table>
VA uses vehicles to transport Veterans to and from appointments; deliver services to Veterans at their homes and communities; and to accomplish many other outreach and service purposes.

VA’s fleet in 2019 numbered 21,887 vehicles in 300 fleets nationwide, ranging from sedans to mobile clinics.

- Alternative fuel: 9.5% of total fleet fuel consumed
- Alternative fuel vehicles (AFVs) in fleet: 62%
- 66% of AFVs are E-85 vehicles, 24% are gas hybrids
- Number of electric vehicles: 44
Environmental Management

- VA is “green” on both OMB Scorecard sustainable acquisition metrics (% and $ amount of sustainable contract actions)
- VA OIT reported 100% of FY 2018 equipment purchased met the Electronic Product Environmental Assessment Tool (EPEAT) Registry standard.

Sustainable Buildings

- 36.9 % of eligible buildings, representing 44% of gross square footage, meet sustainability criteria
  - Total eligible buildings ≥ 10K GSF: 1,844
  - Total eligible GSF: 136 million sq ft
VA won 165 of a total of 549 Practice Greenhealth (PGH) 2019 Environmental Excellence Awards, including:

- Seven of the Top 25 Awards (exemplifying the highest standards for environmental sustainability practices in health care)
- 23 Circles of Excellence Awards
- 20 Emerald Awards.

In 2019, for the fifth year in a row, one or more VA organizations won EPEAT Purchaser Awards for sustainable electronics purchasing.

VA is nearing completion of a final draft of revised NEPA implementing regulations (update of 1989 version).

VA diverted 34.8% non-hazardous solid waste and 65.5% of construction & demolition materials/debris in FY2018.
SUSTAINABLE BUILDINGS HIGHLIGHTS

- VA’s healthcare mission means an inherent, ongoing focus on healthy indoor and outdoor environments at our facilities.
- In FY 2017, VA made internal resources available so VA staff can self-certify space to the Guiding Principles in place of obtaining third party certification.
- VA anticipates certifying more existing buildings over the next few years.
- VA will continue to pursue Energy Star certification for all eligible buildings.
- VA is working on establishing data fields for Sustainable Buildings in the Capital Assets Inventory for better tracking of Sustainable buildings.
VA CHALLENGES

- Growing and evolving VA mission
- Mature program that has met/exceeded most key “ENERGY” mandates
- Aging infrastructure
QUESTIONS??

Thank you!

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