Air Force Sustainability Initiatives

HON. Terry Yonkers
Assistant Secretary of the Air Force
(Installations, Environment, Energy and Logistics)
**Report Documentation Page**

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

<table>
<thead>
<tr>
<th>1. REPORT DATE</th>
<th>01 NOV 2011</th>
<th>2. REPORT TYPE</th>
<th>3. DATES COVERED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>00-00-2011 to 00-00-2011</td>
</tr>
</tbody>
</table>

| 4. TITLE AND SUBTITLE | Air Force Sustainability Initiatives |

| 6. AUTHOR(S) | Assistant Secretary of the Air Force, (Installations, Environment, Energy and Logistics), Washington, DC, 20330 |

| 13. SUPPLEMENTARY NOTES | Presented at the GreenGov Symposium, October 31 - November 2, 2011, Washington, DC |

| 15. SUBJECT TERMS | |

<table>
<thead>
<tr>
<th>16. SECURITY CLASSIFICATION OF:</th>
<th>17. LIMITATION OF ABSTRACT</th>
<th>18. NUMBER OF PAGES</th>
<th>19a. NAME OF RESPONSIBLE PERSON</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. REPORT</td>
<td>Same as Report (SAR)</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>b. ABSTRACT</td>
<td>unclassified</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. THIS PAGE</td>
<td>unclassified</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Sustainable Planning – Session 4

Implementing, Monitoring & Measuring the Success of Sustainability Plans

November 1, 2011
Implementing, Monitoring & Measuring the Success of Sustainability Plans

November 1, 2011
Sustainable Planning – Session 4
Implementing, Monitoring & Measuring the Success of Sustainability Plans
November 1, 2011

Sustainability Management Framework - EMS

Aspects

Best Opportunity to Optimize: During Planning and Design

Plan

Do

Check

Act

Impacts

Plan

Do

Check

Act
**Planning Indicator**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Charleston 1</th>
<th>Charleston 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply</td>
<td>27,163,139.00</td>
<td>27,163,139.00</td>
</tr>
<tr>
<td>Demand</td>
<td>739,860.00</td>
<td>935,133.00</td>
</tr>
<tr>
<td>Headroom</td>
<td>26,428,335.00</td>
<td>26,323,025.00</td>
</tr>
<tr>
<td>Rating</td>
<td>N-4</td>
<td>N-4</td>
</tr>
</tbody>
</table>

**Legend for Natural Infrastructure Assessment (NIA) Data**

<table>
<thead>
<tr>
<th>N-rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-0</td>
<td>Opportunities</td>
</tr>
<tr>
<td>N-1</td>
<td>Resource is capable of fully supporting the mission of assigned units, organizations, and/or tenants with acceptable regulatory or permit constraints.</td>
</tr>
<tr>
<td>N-2</td>
<td>Resource is capable of supporting the mission of assigned units, organizations, and/or tenants with minimal regulatory or permit constraints.</td>
</tr>
<tr>
<td>N-3</td>
<td>Resource capability presents challenge to the mission of assigned units, organizations, and/or tenants due to moderate regulatory or permit constraints.</td>
</tr>
<tr>
<td>N-4</td>
<td>Resource capability presents significant challenges to the mission of assigned units, organizations, and/or tenants due to significant regulatory or permit constraints.</td>
</tr>
</tbody>
</table>

**Waste Reduction**

- Non-AZ Waste Reduction (Tons)
- Construction Waste Reduction (Tons)

**Community Planning**

- Land Use In-Fill

**Environmental**

- % Incompatability
- CZ
- APZ 1
- APZ 2

**Natural/Cultural**

- Wetlands
- Archaeological Sites
- Historic Sites
- Land Use/Net/Cut Areas

**External Sustainability**

- Urban Sprawl (High, Med, Low)

**Climate Vulnerability (1000 or 2050 timeframe)**

- Drought
  - Federally Declared Floods
  - Flood Risk

- Sea Level Rise (flooding expected to be caused by < 1 meter, > 1 meter, N/A)

- Temperature Rise Impact

- Precipitation Pattern Changes

- Seismic Zones

- Storm Surge/Intensity

- Tornado

- Lightning Density

- Wildfires

**Very Low Vulnerability (1)**

**Low Vulnerability (2)**

**Moderate Vulnerability (3)**

**Vulnerable (4)**

**High Vulnerability (5)**
Sustainability Application: MMR Remediation Project

Electricity Generation to Power IRP Remedial Systems Results in Air Emissions Including Greenhouse Gases

MMR Wind Turbine Construction

Wind power to offset greenhouse gas production
Sustainable Planning – Session 4
Implementing, Monitoring & Measuring the Success of Sustainability Plans
Conservation Successes

Red-Cockaded Woodpecker

Okaloosa Darter
3-PART STRATEGY

- Reduce Demand
- Increase Supply
- Change the Culture

ENERGY VISION:
Make Energy A Consideration In All We Do
Reduce Demand

Sustainable Planning – Session 4
Implementing, Monitoring & Measuring the Success of Sustainability Plans
November 1, 2011
Increase Supply

Sustainable Planning – Session 4
Implementing, Monitoring & Measuring the Success of Sustainability Plans

November 1, 2011
Implementing, Monitoring & Measuring the Success of Sustainability Plans

November 1, 2011