

FY 2005 Federal Agency Energy Scorecard

| Department/Agency Name | Contact Name and Phone |
|------------------------------------|-------------------------------------|
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| Name of Senior Energy Official | Signature of Senior Energy Official |
| Timothy F. Hagan | |

| Did your agency . . . | Yes | No | Anticipated Submittal Date | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|--------|--|--|------------|--------|------|-------|-------|-------|-------|------|-------|-------|-------|----------------------|-------|-------|-------|---------|-------|-------|-------|----------|-------|-------|-------|
| 1. Submit its FY 2005 energy report to OMB and DOE by January 1, 2006 (Sec. 303). | x | | 12/30/05 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Submit a FY 2006 Implementation Plan by January 1, 2006 (Sec. 302). | x | | 12/30/05 | | | | | | | | | | | | | | | | | | | | | | | | |
| Did your agency . . . | Yes | No | Comments | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Implement or continue to use renewable energy projects at Federal installations or facilitate the siting of renewable generation on Federal land in FY 2005 (Sec. 204). (Report all self-generated renewable energy from projects installed after 1990; refer to Table 1-7 on the Energy Management Data Report) | | x | If yes, how many projects and how much energy generated? (Specify unit: MWH or MMBtu) <table style="width: 100%; margin-top: 5px;"> <thead> <tr> <th></th> <th style="text-align: center;"># Projects</th> <th style="text-align: center;">Energy</th> <th style="text-align: center;">Unit</th> </tr> </thead> <tbody> <tr> <td>Solar</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Wind</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Thermal¹</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Biomass</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> <tr> <td>Other RE</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> <td style="text-align: center;">_____</td> </tr> </tbody> </table> | | # Projects | Energy | Unit | Solar | _____ | _____ | _____ | Wind | _____ | _____ | _____ | Thermal ¹ | _____ | _____ | _____ | Biomass | _____ | _____ | _____ | Other RE | _____ | _____ | _____ |
| | # Projects | Energy | Unit | | | | | | | | | | | | | | | | | | | | | | | | |
| Solar | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| Wind | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| Thermal ¹ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| Biomass | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| Other RE | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| ** 4. Purchase energy generated from new renewable energy sources in FY 2005 (Sec. 204). ² (Refer to Table 1-6 on the Energy Management Data Report) | | x | If yes, how much: _____ MWH or _____ MMBtu | | | | | | | | | | | | | | | | | | | | | | | | |
| *** 5. Invest direct FY 2005 appropriations in projects contributing to the goals of the Order (Sec. 301). | | x | If yes, how much: \$ _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. Specifically request funding necessary to achieve the goals of the Order in its FY 2007 budget request to OMB (Sec. 301). (Refer to OMB Circular A-11, Section 25.5, Table 2) | | x | If yes, how much: \$ _____ | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. Perform energy audits of 10% of its facility space during the fiscal year (Sec. 402). | | x | What percentage of facility space was audited during the FY? <u>0</u> % How much facility space has been audited since 1992? ³ <u>100</u> % | | | | | | | | | | | | | | | | | | | | | | | | |
| 8. Issue to private-sector energy service companies (ESCOs) any energy savings performance contract (ESPC) delivery orders (Sec. 403(a)). (Refer to Table 2-2 on the Energy Management Data Report) | | x | How many? _____ Annual savings (MMBtu): _____ Total investment value ⁴ : \$ _____ Cumulative guaranteed cost savings: \$ _____ Award value: \$ _____ | | | | | | | | | | | | | | | | | | | | | | | | |

See page 4 for explanation of astericks.

Enclosure 3

1 Examples are geothermal, solar thermal, and geothermal heat pumps. Thermal energy from geothermal heat pumps should be determined as follows: Thermal energy = Total geothermal heat transferred – electrical energy used.

2 “New” renewable energy means sources developed after 1990.

3 Should be greater than 100% if all facility space has been audited at least once since 1992.

4 Investment value includes design, materials, labor, overhead, and profit but excludes contractor’s financing costs and government’s administration costs. Using investment value allows comparison with other traditional execution methods such as appropriated and working capital funded projects.

| Did your agency . . . | Yes | No | Comments |
|---|-----|----|---|
| 9. Issue any utility energy services contract (UESC) delivery orders (Sec. 403(a)). (Refer to Table 2-3 on the Energy Management Data Report) | | x | How many? _____ Annual savings (MMBtu): _____ Total investment value ⁴ : \$ _____ Cumulative cost savings: \$ _____ Award value: \$ _____ |
| 10. Incorporate energy efficiency requirements into relevant acquisitions (Sec. 403(b)(3)). | x | | See Enclosure 1, III.D. |
| 11. Adopt and apply the sustainable design principles (e.g., Whole Building Design Guide, Leadership in Energy and Environmental Design (LEED)) to the siting, design, and construction of new facilities or major (budget line item) renovations begun in FY 2005 (Sec. 403(d)). | | x | Number of new building (or major renovation) design/construction projects in FY 2005 ⁵ : _____ Number of these projects that can or will be certified under LEED ⁵ : _____ |
| 12. Provide training to appropriate personnel ⁶ on energy management (Sec. 406(d)). | x | | Number of appropriate personnel trained: <u>1</u> Total number of appropriate personnel: _____ |
| 13. Implement any additional management tools (Sec. 406). | x | | Check all that apply: Awards: <u>x</u> Performance Evaluations: <u>x</u> Showcase Facilities: <u>0</u> Number of Showcase Facilities designated in fiscal year: <u>0</u> |
| 14. Establish Water Management Plans (WMPs) and implement at least 4 Best Management Practices (BMPs) in at least 20% of agency facilities (Sec. 207, 503(f))? | x | | Number of facilities with WMPs and 4 BMPs: <u>2</u> Number of facilities in agency inventory: <u>2</u> |

NOTE: Provide additional information below if a "No" reply is used for any of the questions above.

See page 4 for explanation of astericks.

⁵ Count projects only once, regardless of phase. For example, if in FY 2005, your agency had 10 new building or major renovation projects, of which 2 can be LEED certified, then report 10 and 2, respectively, in the spaces provided. If the project was designed and reported on in response to this question in a previous year, do not report it as a new project in FY 2005, even if construction commenced or continued in FY 2005.

⁶ Appropriate personnel include the agency energy management team as well as Federal employees and on-site contractors who are energy or facility managers, operations and maintenance workers, design personnel, procurement and budget staff, and legal counsel.

| Please enter data from annual energy report pertinent to performance toward the goals of Executive Order 13123 | Base Year | | Previous Year (2004) | | Current Year (2005) | | % Change (Current vs. Base) | |
|--|---------------------|---------------------|----------------------|---------------------|---------------------|---------------------|-----------------------------|------|
| | * | ** | * | ** | * | ** | * | ** |
| 15. Site Energy Efficiency Improvement Goals (Sec. 202). 1985 Base Year | 120.2 | 106.1 | 114.9 | 103.5 | 115.6 | 99.3 | 3.9 | -6.8 |
| | Btu/Ft ² | Btu/Ft ² | Btu/Ft ² | Btu/Ft ² | Btu/Ft ² | Btu/Ft ² | % | % |
| 16. Industrial/Energy Intensive Facilities Goals (Sec. 203). 1990 Base Year | N/A | Btu/unit | N/A | Btu/unit | N/A | Btu/unit | N/A | % |
| 17. Source Energy Use (Sec. 206). 1985 Base Year | N/A | BBtu | N/A | BBtu | N/A | BBtu | N/A | % |
| 18. Water Conservation Goal (Sec. 207). 2000 Base Year | N/A | MGal | N/A | MGal | N/A | MGal | N/A | % |
| 19. Renewable Energy (Sec. 204) Energy used from self-generation and RE purchases | N/A | N/A | N/A | BBtu | N/A | BBtu | | N/A |

Abbreviation Key: Btu/Ft² = British thermal units per gross square foot

Btu/unit = British thermal units per unit of productivity (or gross square foot when such a unit is inappropriate or unavailable)

MGal = Million gallons

MMBtu = Million British Thermal Units

BBtu = Billion British Thermal Units

RE = Renewable energy

N/A = Not applicable

* ONE WHITE FLINT

** TWO WHITE FLINT

- * Renewable energy is not commercially available and there is no Federal land available where NRC could facilitate the siting of renewable generation to serve the NRC's White Flint North Complex.
- ** There are no commercial renewable energy sources available.
- *** The OWFN chiller, cooling tower and heat exchanger replacement project was accomplished in FY 2004, which contributed to the goals of the Section 204 of the E.O. However, the project was funded by the General Services Administration.
- **** NRC is not responsible for the design or construction of new facilities. No major renovations at NRC's White Flint North Complex were performed in FY 2005.