



# FY 2012 SUSTAINABILITY PLAN

OFFICE OF FACILITIES MANAGEMENT

## **GOAL 1: IMPLEMENT SUSTAINABLE BUILDING PRACTICES**

### **FY12 Objectives:**

- *1.1: All projects shall be qualified with the requirements listed in Standard 189.1-2009.*
- *1.2: Publish and implement IECC 2006 Standards on “Interior lighting power allowances” [Table 505.5.2] and “Lighting Power Densities” for building exteriors [Table 505.6.2].*
- *1.3: Implement energy modeling practices in lieu of like kind equipment replacement*
- *1.4: 75% of OFM remodel and renovation projects will exceed adopted building standard.*
- *1.5: 100% of OFM repair and replacements will be best available for the application.*

### **FY12 Tasks:**

- *Energy Management:*
  - 1.1: Develop a checklist or similar tracking method for the Architect and Engineer to incorporate in proposal/design packages.
  - 1.2: Distribute tables to design team i.e. Architect and Engineering on-call
  - 1.3: Baseline: Model Energy consumption as per the latest requirements of ASHRAE standards 90.1-2007 and 62.1-2007.
  - 1.4: Work with architects, engineers and Facilities Services to ensure the adopted standards are implemented in all remodel/renovation projects.
  - 1.5: Research best available options & industry climate; Make water conservation & lighting efficiency recommendations adhering to the established standards in Objective 1.1.

### **FY13 Objectives (2 year):**

- *1.1: All projects shall be qualified with the requirements listed in Standard 189.1-2009.*
- *1.2: Publish and implement IECC 2006 Standards on “Interior lighting power allowances” [Table 505.5.2] and “Lighting Power Densities” for building exteriors [Table 505.6.2].*
- *1.3: Implement energy modeling practices in lieu of like kind equipment replacement*
- *1.4: 75% of OFM remodel and renovation projects will exceed adopted building standard.*
- *1.5: 100% of OFM repair and replacements will be best available for the application.*

### **FY17 Objectives (5 year):**

- *1.1: All projects shall be qualified with the requirements listed in Standard 189.1-2009.*
- *1.2: Publish and implement IECC 2006 Standards on “Interior lighting power allowances” [Table 505.5.2] and “Lighting Power Densities” for building exteriors [Table 505.6.2].*
- *1.3: Implement energy modeling practices in lieu of like kind equipment replacement*
- *1.4: 75% of OFM remodel and renovation projects will exceed adopted building standard.*
- *1.5: 100% of OFM repair and replacements will be best available for the application.*

## **GOAL 2: REDUCE VEHICLE ASSOCIATED POLLUTION**

### **FY12 Objectives:**

- *2.1: Benchmark mansion grounds gasoline usage for FY13 comparison.*

### **FY12 Tasks:**

- *Facilities Services:*
  - 2.1: Task

### **FY13 Objectives (2 year):**

- *2.1: Reduce mansion grounds gasoline usage by 10% from FY12 baseline.*

### **FY17 Objectives (5 year):**

- *2.1: Reduce mansion grounds gasoline usage by 25% from FY12 baseline.*
- *2.2: Install Electric Vehicle charging stations at one building.*

## **GOAL 3: MAXIMIZE RECYCLING, MINIMIZE WASTE**

### **FY12 Objectives:**

- 3.1 - 10% reduction in office paper use based on FY10 baseline.
- 3.2 - Maintain 100% of copy paper purchased for OFM use is 100% recycled content (white 8 ½ 11).
- 3.3 - 100% of janitorial paper products will be of 30% recycled content and chlorine free if available in the market.
- 3.4 - 100% of all fluorescent bulbs and rechargeable batteries will be recycled.
- 3.5 – 100% compact fluorescent bulbs will be disposed of through an environmental management program.

### **FY12 Tasks:**

- *Energy Management:*
  - 3.1: Minimize paper use by utilizing electronic tablet computer for all auditing.

### **FY13 Objectives (2 year):**

- 3.1 - 15% reduction in office paper use based on FY10 baseline.
- 3.2 - Maintain 100% of copy paper purchased for OFM use is 100% recycled content (white 8 ½ 11).
- 3.3 - 100% of janitorial paper products will be of 30% recycled content and chlorine free if available in the market.
- 3.4 - 100% of all fluorescent bulbs and rechargeable batteries will be recycled.
- 3.5 – 100% compact fluorescent bulbs will be disposed of through an environmental management program.

### **FY17 Objectives (5 year):**

- 3.1 - 25% reduction in office paper use based on FY10 baseline.
- 3.2 - Maintain 100% of copy paper purchased for OFM use is 100% recycled content (white 8 ½ 11).
- 3.3 - 100% of janitorial paper products will be of 30% recycled content and chlorine free if available in the market.
- 3.4 - 100% of all fluorescent bulbs and rechargeable batteries will be recycled.
- 3.5 – 100% compact fluorescent bulbs will be disposed of through an environmental management program.

**GOAL 4: MINIMIZE FACILITY RELATED ENERGY & WATER USE****FY12 Objectives:**

- 4.1: *Reduce greenhouse gas emission/energy use by 25%.*
- 4.2: *Reduce water use by 30% per square foot from FY08 benchmark.*
- 4.3: *Increase renewable energy kW potential based on FY11 benchmark.*
- 4.4: *Achieve an Energy Star rating of 75 or higher for ten (10) DCS-managed buildings.*
- 4.5: *Achieve Energy Star Portfolio average rating of 85 or higher.*
- 4.6: *Achieve Power Factor of 90 in all buildings.*
- 4.7: *Achieve Energy Star-certification for ten (10) buildings.*
- 4.8: *Two employees will become certified energy managers.*
- 4.9: *Two employees will become LEED Green Associates.*

**FY12 Tasks:**• *Energy Management:*

- 4.1: Establish complete lighting upgrade plan for 2 buildings. Plan will include: existing conditions, recommended products/systems & projected payback.
- 4.1: Complete plans and bid process for the following projects: Denver Davison 2012 upgrade projects; Jim Thorpe cooling tower, piping, chiller & control upgrades; Agriculture building mechanical re-design;
- 4.2: Complete irrigation on-call contract process.
- 4.3: Complete PV project at Banking Commission building.
- 4.3: Complete design & construction of wind generator at Library.
- 4.4: Work with Facilities Services to set up electrical metering for OEM allowing Will Rogers to be profiled separately on Energy Star.
- 4.4: Investigate natural gas supply.
- 4.5: Target projects in underperforming buildings to raise average rating.
- 4.6: Target projects in underperforming buildings to raise average rating.
- 4.7: Work with Facilities Services to set up electrical metering for OEM allowing Will Rogers to be profiled separately on Energy Star.
- 4.7: Investigate natural gas supply.
- 4.7: Target projects in borderline buildings.
- 4.8: Locate training course & determine eligibility.
- 4.9: Study & schedule exams.

• *Facilities Services:*

- 4.1: Task

**FY13 Objectives:**

- 4.1: *Reduce greenhouse gas emission/energy use by 27.5%.*
- 4.2: *Reduce water use by 30% per square foot from FY08 benchmark.*
- 4.3: *Increase renewable energy kW potential by 10% based on FY11 benchmark.*
- 4.4: *Achieve an Energy Star rating of 75 or higher for eleven (11) DCS-managed buildings.*
- 4.5: *Achieve Energy Star Portfolio average rating of 87 or higher.*

- 4.6: *Achieve Power Factor of 90 in all buildings.*
- 4.7: *Achieve Energy Star-certification for all eligible buildings.*
- 4.8: *Complete required CEU credits to maintain LEED Green Associate accreditation.*

### **FY17 Objectives:**

- 4.1: *Reduce greenhouse gas emission/energy use by 30%.*
- 4.2: *Reduce water use by 30% per square foot from FY08 benchmark.*
- 4.3: *Increase renewable energy kW potential by 10% based on FY11 benchmark.*
- 4.4: *Achieve an Energy Star rating of 75 or higher for thirteen (13) DCS-managed buildings.*
- 4.5: *Achieve Energy Star Portfolio average rating of 88 or higher.*
- 4.6: *Achieve Power Factor of 91 in all buildings.*
- 4.7: *Achieve Energy Star-certification for all eligible buildings.*
- 4.8: *Complete required CEU credits to maintain LEED Green Associate accreditation.*

## **GOAL 5: REDUCE TOXIC PRODUCTS AND CHEMICALS**

### **FY12 Objectives:**

- 5.1: *OFM (Purchasing) will establish procedures and guidelines (checklist) for the procurement of Environmentally Preferred Products/Services (EPP) contracts/products.*
- 5.2: *100% of OFM janitorial products used will be Green Seal approved or equivalent.*
- 5.3: *Maintain no persistent toxins in OFM managed landscaping.*

### **FY12 Tasks:**

- *Facilities Services:*
  - 5.1: Task 1

### **FY13 Objectives:**

- 5.1: *OFM (Purchasing) will establish procedures and guidelines (checklist) for the procurement of Environmentally Preferred Products/Services (EPP) contracts/products.*
- 5.2: *100% of OFM janitorial products used will be Green Seal approved or equivalent.*
- 5.3: *Eliminate all persistent toxins in OFM managed landscaping.*

### **FY17 Objectives:**

- 5.1: *OFM (Purchasing) will establish procedures and guidelines (checklist) for the procurement of Environmentally Preferred Products/Services (EPP) contracts/products.*
- 5.2: *100% of OFM janitorial products used will be Green Seal approved or equivalent.*
- 5.3: *Eliminate all persistent toxins in OFM managed landscaping.*

## **GOAL 6: SUSTAINABLE LEASING PRACTICES**

### **FY12 Objectives:**

- *6.1: Draft legislation to require Energy Star rating for private leased buildings*
- *6.2: Establish cost tier to enable consideration of sustainable practices when calculating the total cost per square foot of leased space.*

### **FY12 Tasks:**

- *State Leasing:*
  - 6.1: Research requirements and lessons learned from other states
  - 6.1: Work with Administration to seek sponsor and draft legislation
  - 6.2: Create checklist for lessors and brokers to complete and submit with proposals.
  - 6.2: Incorporate items on checklist on agency evaluation tool.
- *Energy Management:*
  - Provide information & assist when needed.

### **FY13 Objectives:**

- *6.1: Implement legislation to require Energy Star rating for private leased buildings*
- *6.2: Implement cost tier to enable consideration of sustainable practices when calculating the total cost per square foot of leased space.*

### **FY17 Objectives:**

- *6.1: Implement legislation to require Energy Star rating for private leased buildings*
- *6.2: Implement cost tier to enable consideration of sustainable practices when calculating the total cost per square foot of leased space.*