

















**SUSTAINABILITY/ENERGY SCORECARD**  
**LEADERSHIP IN ENVIRONMENTAL, ENERGY & ECONOMIC PERFORMANCE**  
**TVA - Brenda Brickhouse, Chief Sustainability Officer**

FY 2016 STATUS (As of December 31, 2016)	ACTIONS TVA Comments in Blue		PROGRESS TVA Comments in Blue
 Green For Scope 1&2 GHG Reduction Target of <b>31.2%</b> by 2025, <b>22.2%</b> reduction to date.	 Yellow	<p><b>Actions taken since July 1, 2016:</b></p> <ul style="list-style-type: none"> <li>• Invested over \$2.4M in energy and water projects resulting in over 2.6 GWh in energy savings</li> <li>• Completed all building evaluations, 13 projects completed</li> <li>• Benchmarked all buildings with complete meter data</li> <li>• Purchased RECs for 2 office complexes and made progress re-commissioning 2 hydro turbines to increase renewable/clean energy</li> <li>• Print Smart (printer/ink management system) completed several months ahead of schedule. Average monthly printed pages per user have decreased by 27%.</li> <li>• Reviewed previous Green Procurement training material to determine needed updates. Anticipate training to be initiated during the 2nd quarter of 2017</li> <li>• Conducted telematics proof of concept</li> <li>• Assigned staff and resources to develop a TVA EV strategy</li> <li>• TVA Equipment Support Services began implementing Telogis Fleet management platform for fleet dispatch and telematics solutions for truck/tractor/trailer fleet.</li> </ul> <p><b>Planned actions for next six months:</b></p> <ul style="list-style-type: none"> <li>• Continue Green Procurement Coding project evaluating what commodity codes have green procurement applicability and prioritizing. Review previous Sourcing training course material to ensure buyers are following sustainable policies. Anticipate conducting training during the 2nd quarter of 2017.</li> <li>• Develop TVA EV strategy to increase employee usage</li> <li>• Increase purchase of RECs for office complexes</li> <li>• Complete the 2008 SGPs at 1 building</li> <li>• Benchmark meter buildings at EISA 432 covered facilities</li> <li>• Award \$1.5M in building energy efficiency contracts/projects</li> <li>• Complete \$0.4M in energy &amp; water projects</li> <li>• PC power management will be accomplished through policy update and project initiation</li> </ul>	<ul style="list-style-type: none"> <li>• Purchased Biobased products on 68% of applicable products surpassing established target of 50% and increased 11% over 1st and 2nd quarter of 2016.</li> <li>• Continued to meet all goals for procurement of Energy Star and EPEAT certified devices</li> <li>• Percentage of Sustainable Acquisition for was 85% and 82% for 3rd and 4th quarter as calculated by TVA's methodology. An increase from 77% in 2nd quarter 2016. Green Procurement Coding project and Supply Chain training initiatives will drive compliance towards goal of 95%.</li> <li>• TVA has already awarded \$22.9M toward its 2016 performance contracting target of \$22.5M, exceeding its initial and revised targets and meeting the PPCC goal ahead of schedule. TVA previously surpassed its PPCC Commitment with \$17.4M in phase I and \$5.5M in phase II to total \$22.9M in awards to date.</li> </ul> <p><b>Challenges:</b></p> <ul style="list-style-type: none"> <li>• TVA revenue comes solely from power sales (no appropriations) and the downward pressure on budgets (in an effort to control rate increases) impacts resource availability for sustainability. However, TVA recognizes that meeting its sustainability goals makes wise use of resources</li> <li>• Implementation of telematics for light duty fleet was delayed and increased utilization of E85 is problematic due to nature of business travel but is an active goal for FY17</li> </ul>
 Green For Scope 3 GHG Reduction Target of <b>20.7%</b> by 2025: <b>24.5%</b> reduction to date.	 Yellow		
 Green Reduction in energy intensity in goal-subject facilities compared to 2015: <b>4.7% (Goal: 2.5%)</b>	 Yellow		
 Green Use of renewable electricity as a percent of facility electricity use: <b>10.9% (Goal: 10%)</b>	 Yellow		
 Green Use of clean energy as a percentage of facility energy use: <b>10.9% (Goal: 10%)</b>	 Yellow		
 Green Reduction in potable water intensity compared to FY 2007: <b>39.8% (Goal: 18%)</b>	 Green		
 Red *Reduction in vehicle fleet's per mile GHG emissions compared to FY 2014: <b>13.27 &gt;%</b>	 Green		
 Red Sustainable green buildings: <b>8.7%</b> of buildings sustainable <b>(Goal: 10.7%)</b> <b>4.8%</b> GSF of inventory sustainable <b>(Goal: 6.8%)</b>	 Green		

\*In FY 2016 vehicle fleet per-mile GHG emissions will be assessed for internal use. This interim score will not be included on the public January 2017 scorecard.



Green



Yellow



Red

- On track to achieve on agency's proposed 2025 Scopes 1&2 GHG emissions reduction target.
- On track to achieve on agency's proposed 2025 Scope 3 GHG emissions reduction target.
- Reduced energy intensity (Btu/GSF\*) in goal-subject facilities by at least 2.5% compared to 2015 and is on track for 25% by 2025 (or is on track to meet 47.5% reduction compared to 2003, if applicable).
- Uses at least 10% percent electricity from renewable sources as a percentage of facility electricity use and is on track for 30% by 2025.
- At least 10% of federal building electric energy and thermal energy is clean energy and is on track for 25% by 2025.
- Reduced water intensity by at least 18% from FY 2007 baseline and is on track for 36% by 2025.
- Achieved a 2% reduction in its vehicle fleet per-mile GHG emissions compared to FY 2014 and is on track for 30% by 2025.\*\*
- Demonstrates compliance with 2008 and/or 2016 Guiding Principles for Sustainable Federal Buildings (GP) for its buildings by GSF or number of buildings of  $\geq 15\%$  or  $\geq 2\%$  increase over the prior year.

- Less than a year behind glide path to achieve agency's 2025 target for GHG Scopes 1&2.
- Less than a year behind glide path to achieve agency's 2025 target for GHG Scope 3.
- Reduced energy intensity (Btu/GSF) in goal-subject facilities by less than 2.5% compared to 2015 (or, if applicable, reduced Btu/GSF but is not on track to meet 47.5% reduction compared to 2003).
- Uses at least 7.5% electricity from renewable sources as a percentage of facility electricity use.
- At least 7.5% of federal building electric energy and thermal energy is clean energy.
- Reduced water intensity by at least 16% percent from FY 2007 baseline.
- Achieved less than a 2% reduction in its vehicle fleet per-mile GHG emissions compared to FY 2014.\*\*
- Reports <15% of buildings/GSF meeting the GP in FRPP and <2% increase from previous year, but has developed a plan to incorporate 2016 GP into all new design contracts.

\*GSF=Gross square footage

- More than a year behind glide path to achieve agency's 2025 target for GHG Scopes 1&2.
- More than a year behind glide path to achieve agency's 2025 target for GHG Scope 3.
- Increased energy intensity (Btu/GSF) in goal-subject facilities compared to 2015.
- Did not use at least 7.5% electricity from renewable sources as a percentage of facility electricity use.
- Less than 7.5% of federal building electric energy and thermal energy is clean energy.
- Did not reduce water intensity by at least 16% from FY 2007 baseline.
- Increased its vehicle fleet per-mile GHG emissions compared to FY 2014.\*\*
- Agency has not demonstrated an increase in compliance with GP from prior year or has not developed a plan to achieve 15% by 2025 using 2016 Guiding Principles.

\*\*In FY 2016 vehicle fleet per-mile GHG emissions will be assessed for internal use. This interim score will not be included on the public January 2017 scorecard.