

# Appendix A: Environmental Management System

## FY 2019 EMS Goals and Objectives

Requirement	Leadership in sound environmental stewardship at SRS through innovative programs and projects				
Strategy	Continuous improvement in the reduction of the environmental impacts of SRS operations				
	Goal	Significant Environmental Aspects	Strategies	Implementation	FY 2019 Status
<b>Clean Energy Initiatives</b>	<b>Goal #1</b> Greenhouse Gas Reduction	<ul style="list-style-type: none"> <li>Air Pollutants</li> <li>Renewable Energy</li> <li>Alternative Fuels</li> </ul>	<ul style="list-style-type: none"> <li>Operate four biomass plants</li> <li>Continued purchase of alternative fuel vehicles</li> </ul>	Site Sustainability Plan	<b>Goal Met.</b> SRS has reduced GHG through operating four biomass plants and continued purchase of alternative fuel (E-85) vehicles.
	<b>Goal #2</b> Sustainable Buildings	<ul style="list-style-type: none"> <li>Air Pollutants</li> <li>Discharges to Wastewater Systems</li> </ul>	<ul style="list-style-type: none"> <li>Cool roof technology</li> <li>Preventative maintenance and energy efficient repairs. Work to reduce peak Electrical requirements</li> <li>Earth Day activities</li> </ul>	Site Sustainability Plan	<ul style="list-style-type: none"> <li><b>Goal Met.</b> Eleven cool roofs were installed.</li> <li><b>Goal Met.</b> Energy conservation measures implemented. HVAC upgrades and improved chiller plant efficiencies, LED lighting replacing fluorescent as lighting is repaired.</li> </ul>
	<b>Goal #3</b> Clean and Renewable Energy	<ul style="list-style-type: none"> <li>Air Pollutants</li> <li>Renewable Energy</li> </ul>	<ul style="list-style-type: none"> <li>Goal has been met, but SRS will continue to support Clean Energy Requirements</li> <li>Operate four biomass plants</li> </ul>	3Q Procedure 13.5	<ul style="list-style-type: none"> <li><b>Goal Met.</b> On-site Earth Day event had ~400 employees attend. USFS, SCDHEC, SREL, SRR, Clemson, Centerra, and SRNS booths on a variety of topics on Environmental Stewardship including sustainability and recycling.</li> <li><b>Goal Met.</b> Biomass plants help to exceed Renewable Energy Goal (&gt;7.5%) with performance of 22.7%. Steam is generated on site primarily by biomass (with tires and fuel oil as secondary fuel) in support of Clean Energy.</li> </ul>
	<b>Goal #4</b> Water Use Efficiency And Management	<ul style="list-style-type: none"> <li>Discharge to Wastewater Systems</li> <li>Water Use</li> </ul>	<ul style="list-style-type: none"> <li>Reduce water usage through low flow device installation</li> <li>Continue to seek new ILA reductions and continue use Of previous actions</li> </ul>	Site Sustainability Plan	<ul style="list-style-type: none"> <li><b>Goal Met.</b> SRS installs low-flow devices during maintenance repairs and major renovations.</li> <li><b>Goal Met.</b> Biomass plant provides significant reduction in ILA water (relative to coal power plant). Planning for replacing leaking water system piping initiated.</li> </ul>
<b>Sustainability Goals</b>	<b>Goal #5</b> Fleet Management	<ul style="list-style-type: none"> <li>Transportation Management</li> <li>Air Pollutants</li> <li>Renewable Energy</li> </ul>	<ul style="list-style-type: none"> <li>Continue to work with GSA to obtain low-emission vehicles</li> <li>Continue to replace gasoline vehicles with E85 vehicles Where possible</li> <li>Obtain plug-in hybrid and electric vehicles as they become available</li> </ul>	Site Sustainability Plan	<ul style="list-style-type: none"> <li><b>Goal Met.</b> In FY 2019, SRS leased 49 new light-duty, alternate fuel (E-85) vehicles.</li> <li><b>Goal Met.</b> In FY 2019, 49 of 50 new light-duty vehicles leased were E-85. 98.2% of current light-duty fleet (588 of ~599 vehicles) is either E-85, hybrid, or electric.</li> <li><b>Goal Met.</b> Although SRS did not lease these types of vehicles in FY 2019, SRS has one electric vehicle and will work with GSA as these vehicles become more affordable and available.</li> </ul>
	<b>Goal #6</b> Sustainable Acquisition	<ul style="list-style-type: none"> <li>Solid Waste</li> <li>Chemical Use and Storage</li> </ul>	<ul style="list-style-type: none"> <li>Include EPP clause in 95% of applicable new solicitations</li> </ul>	Site Sustainability Plan	<b>Goal Met.</b> All new applicable solicitations included EPP clause.
	<b>Goal #7</b> Pollution Prevention And Waste Reduction	<ul style="list-style-type: none"> <li>Solid Waste</li> <li>Hazardous or Mixed Waste Management</li> <li>Radioactive Waste Management</li> </ul>	<ul style="list-style-type: none"> <li>Continue to divert at least 50% of sanitary waste to recycle</li> <li>Continue recycling of excess- and construction-related waste</li> </ul>	Site Sustainability Plan	<ul style="list-style-type: none"> <li><b>Goal Met.</b> Of 843 metric tons generated in FY 2019, SRS diverted 53.8% (504 metric tons) of nonhazardous solid waste for recycling.</li> <li><b>Goal Met.</b> Total C&amp;D diverted waste is 43%. Significantly, 36,900 metric tons of concrete and asphalt from road repaving was recovered for reuse on Site projects and offsite (e.g. road improvement, daily cover).</li> </ul>
	<b>Goal #8</b> Energy Performance Contracts	<ul style="list-style-type: none"> <li>Renewable Energy</li> <li>Alternative Fuel Use</li> </ul>	<ul style="list-style-type: none"> <li>Continue to look for new opportunities for ESPCs in addition to the existing one</li> </ul>	Site Sustainability Plan	<b>Goal Met.</b> SRS is evaluating the use of solar panel power generation and LED upgrades to existing buildings as new ESPCs, as well as existing ESPCs.
<b>Environmental Protection</b>	<b>Goal #9</b> Electronic Stewardship	<ul style="list-style-type: none"> <li>Air Pollution</li> <li>Solid Waste</li> </ul>	<ul style="list-style-type: none"> <li>95% of eligible acquisitions each year are EPAT-Registered products</li> </ul>	Site Sustainability Plan	<b>Goal Met.</b> 100% of applicable solicitations include EPPP clause
	<b>Goal #10</b> Climate Change Resilience	<ul style="list-style-type: none"> <li>Air Pollution</li> <li>Renewable Energy</li> </ul>	<ul style="list-style-type: none"> <li>Continue Vulnerability Assessments and develop Climate Change Resilience guidance</li> </ul>	Site Sustainability Plan	<b>Goal Met.</b> SRS continues to explore ways to ensure facilities are protected against climate-impacted events.
	<b>Goal #11</b> Environmental Awareness	<ul style="list-style-type: none"> <li>All Aspects</li> </ul>	<ul style="list-style-type: none"> <li>Provide training opportunities and pursue improvements</li> <li>Continue to increase Environmental Awareness across multiple outlets</li> </ul>	Procedure 3Q13.5	<ul style="list-style-type: none"> <li><b>Goal Met.</b> Developing blanket EECs, EEC checklists for work planners, variety of training courses conducted, focus sessions</li> <li><b>Goal Met.</b> Environmental slides in safety meetings, GET/CAT training, EC&amp;ACP video, hosting Earth Day, participating in outreach.</li> </ul>
	<b>Goal #11</b> Environmental Compliance	<ul style="list-style-type: none"> <li>All Aspects</li> </ul>	<ul style="list-style-type: none"> <li>Zero NOV's in CY 2019</li> <li>Meet 100% of regulatory commitments</li> <li>Continuous improvement and development of compliance methodology</li> </ul>	Procedure 3Q13.5	<ul style="list-style-type: none"> <li><b>Goal Not Met.</b> Received one Notice of Violation (NOV) in CY 2019.</li> <li><b>Goal Met.</b> Met 100% of Regulatory Commitments in CY 2019.</li> <li><b>Goal Met.</b> Initiatives include deploying Gensuite, regulatory matrix efforts, work planners' EEC, STRs.</li> </ul>