

The North Carolina Department of Adult Correction looked to reduce energy costs, bolster safety measures, and assure compliance with State executive orders. The Department's Guaranteed Energy Savings Performance Contract included energy efficiency measures, EV charging, and water efficiency. It also included solar arrays sited at Tabor Correctional Institution, owned by North Carolina Electric Cooperatives, and serviced by Brunswick Electric Membership Cooperative as a Public Private Partnership. The Department receives a lower electric rate for produced electricity over the 20-year term.



<b>Location and Information:</b>	<b>North Carolina Department of Adult Correction</b> <ul style="list-style-type: none"> <li>6 Locations</li> <li>3.5 million square feet</li> <li>7,300 offenders housed at included facilities</li> </ul>
<b>Construction Completion Year:</b>	2025
<b>Scope and Benefits:</b>	<p>A 500 kW Solar Energy Solutions Agreement (ESA)</p> <ul style="list-style-type: none"> <li>Serviced by Brunswick Electric Membership Co-Op (BEMC)</li> <li>Owned by North Carolina Electric Membership Co-Op (NCEMC)</li> <li>The Department of Adult Corrections uses solar energy to offset consumption at facilities</li> </ul> <p>Convert 16 perimeter patrol vehicles to Electric Vehicles Charging stations equipment with four ports each will be at four of the six sites Lighting upgrades BAS upgrades and optimization Building Envelope Upgrades HVAC retrofits including high efficiency motors Water Management Systems bolster Safety and Security measures by enhancing contraband detection through remote lockouts, enabling leak detection, and preventing flooding in cells</p> <p>Project facilitated compliance with:</p> <ul style="list-style-type: none"> <li>Executive Order 246, which mandates a transition to EVs for the state fleet</li> <li>Executive Order 80, to help meet the Energy Use Index Reduction Goals</li> </ul>
<b>Financing/ Funding Information:</b>	<p>TELP for energy efficiency measures Utility-Owned Solar Energy Solutions Agreement (ESA) 179D Tax Deductions (\$250,000+)</p>
<b>Implementation Price (\$):</b>	\$38.7M
<b>M&amp;V Price (\$):</b>	\$3M (includes Owner's Rep fee over 20 years)
<b>Savings (\$):</b>	\$60M total Guaranteed Savings over contract term
<b>Term:</b>	<p>Contract and O&amp;M term: 20 years M&amp;V Term: 20 years; IPMVP Option C (97%), Option B (3%)</p>
<b>Owner's Rep:</b>	Sud & Associates
<b>ESCO Partner:</b>	Schneider Electric
<b>Contact Information:</b>	<p>Hayward Fain, Program Analyst II, State Energy Office, North Carolina Department of Environmental Quality Cell: (919) 604-9091; Email: <a href="mailto:Hayward.Fain@deq.nc.gov">Hayward.Fain@deq.nc.gov</a></p>
<b>Additional Information:</b>	The project included tailored course tracks for development pathways for both the staff and offenders, encompassing virtual lighting, HVAC, and automation training. It included 17 percent participation of historically underutilized businesses.

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