Loudoun County Public Schools (LCPS) collaborated with Moseley Architects to design the new Goshen Post Elementary School located in Aldie, VA. The design of this school builds upon a long-standing partnership between Moseley Architects and LCPS, which has yielded a total of 5 different schools achieving “Designed to Earn the ENERGY STAR” certification to date. Projects that achieve this designation are designed to reduce energy and CO₂ emissions. Designed to Earn the ENERGY STAR projects also benefit financially from reduced energy costs over the life of the building.

The design of Goshen Post Elementary School reduces the school’s projected annual energy consumption and CO₂ emissions by 33% as compared to the median building. The estimated total annual energy savings for this project is 2,050 MBtu/yr with an estimated cost savings of $36,000/yr. These energy savings also reduce annual CO₂ emissions by 200 metric tons/yr, which is equivalent to permanently removing 42 US automobiles from the road.

Moseley Architects utilizes a wide range of energy and daylight modeling tools as part of the design process, including Sefaira Architecture in early design and more advanced modeling programs such as Carrier HAP and Trane TRACE in later phases. ENERGY STAR Target Finder was utilized to identify an energy use target in Schematic Design. Target Finder was also used to track the design’s progress throughout the Design Development and Construction Documents phase. By utilizing the same benchmarking tools throughout the entire project cycle, Moseley Architects and LCPS are able to create a seamless transition between design and operations that will assist in tracking the school’s performance as well as informing future design decisions.

EPA wants to feature your projects on the Architects and Projects Web page and in ENERGY STAR program materials. We encourage the AOR to submit a completed Profile with the certification application or by e-mail to spp@energystar.gov.