

**Describe the district's plan to manage and reduce energy use, such as an energy master plan, an energy conservation plan, an energy charter, an energy action plan, and/or energy conservation guidelines.**

Beginning November 2017, the district has approved an Energy Action Plan starting with all High Schools (6 buildings total, roughly 1.4 million square feet). The goal is to reduce energy use over the next five months (November-April) across the six traditional high schools by 5% from a three-year average (2015, 2016, 2017) which roughly translates to a reduction of 576,300 kWh or roughly \$57,000. The target audience has quickly become the high school Custodial teams (in total ~40 employees) and site Athletic Directors as both groups tend to occupy the buildings after hours and on weekends. Custodians roughly spend 80% of their time in the school buildings and Athletic Programs start as early as 6:00 am and go as late as 8:30pm.

In order to achieve this goal, the Natural and Renewable Resources Coordinator (NRRC) is leading the charge. Through electronic monthly newsletters, *APS Green Gloves*, best practices and updates are highlighted to include all 200 custodians across the district. Whether custodians work in a high school, elementary school, middle school, or administration building, research shows that creating a culture of conservation practices helps the district as a whole to streamline the importance of energy conservation now and into the future. The NRRC also meets face-to-face with the high school head custodians as well as the site's HVAC Technicians for site inspections twice per year, which are cataloged on a school map and referenced at future inspections. Issues include lighting retrofits, occupancy lighting sensors installations, HVAC scheduling needs, and general maintenance of the building. All discussions are sent to all parties in a follow up email.

Furthermore, each school building has its own Key Performance Indicator (KPI) Reports, which detail the building's overall performance. From utility use to vandalism reports, site staff automatically receive updated reports at the beginning of each month.

Lastly, group meetings take place on a weekly basis between the NRRC and site HVAC Master Technicians to troubleshoot problematic issues and to forecast energy use using a state-of-the-art touchscreen monitor.

These meetings have resulted in an average of \$800 in energy savings per day since August 2017.