



THE SCHOOL DISTRICT OF  
**CLAYTON**

# How Do We Manage the Work? Since 2001

- **Computerized Maintenance Management System**
  - PM Direct
  - Maintenance Direct
  - Inventory Direct
  - Trip Direct
  - FS Direct
  - **FS Automation**
  - District Calendar
  - **Energy Manager (Utility Direct)**
  - Critical Alarms
  - Capital Forecast
  - Partnered with SchoolDude for Facility Condition Assessment (2017) Imported Into Capital Forecast



**“Dude Solutions”**



# Dude Solutions Energy Manager

## Track Utilities

Get a clear look at your energy usage. Measure and verify the impact of your energy projects through utility-use trending and share unlimited reports. Uncover billing errors.

## Reduce Energy Costs

Identify areas for improvement and potential savings. Create reports to prove the value of your efforts.

## Automate Scoring

Tracks ENERGY STAR score with easy data importation and updates. Discover realistic ways to improve sustainability. Monitor carbon emissions and compare your energy consumption with similar facilities.



## Utility costs continue to rise challenging your budget dollars.

Dude Solutions' Energy Manager™, Data and visibility you need to make a significant impact on your energy expenses and sustainability efforts.

### **Strategic**

- See where you are and where you're going in your energy usage
- Be able to prioritize and plan for energy upgrades
- Identify your biggest drains on resources and tackle them

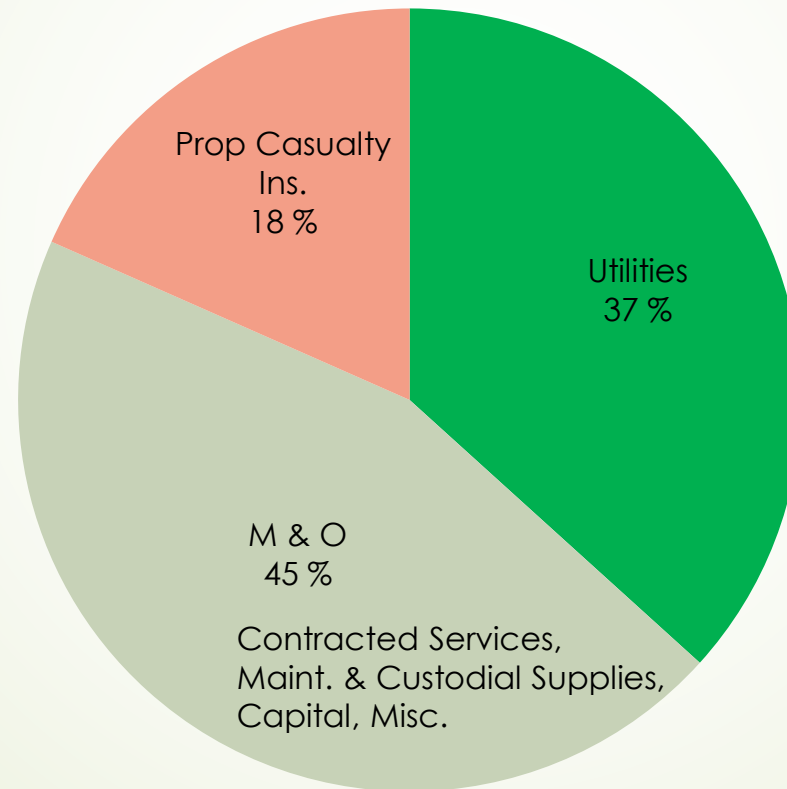
### **Reliable**

- Collect data you never have to worry about losing
- Quick reporting provides your usage information and shows patterns
- Pull data-backed reports to help you justify projects

### **Simplified**

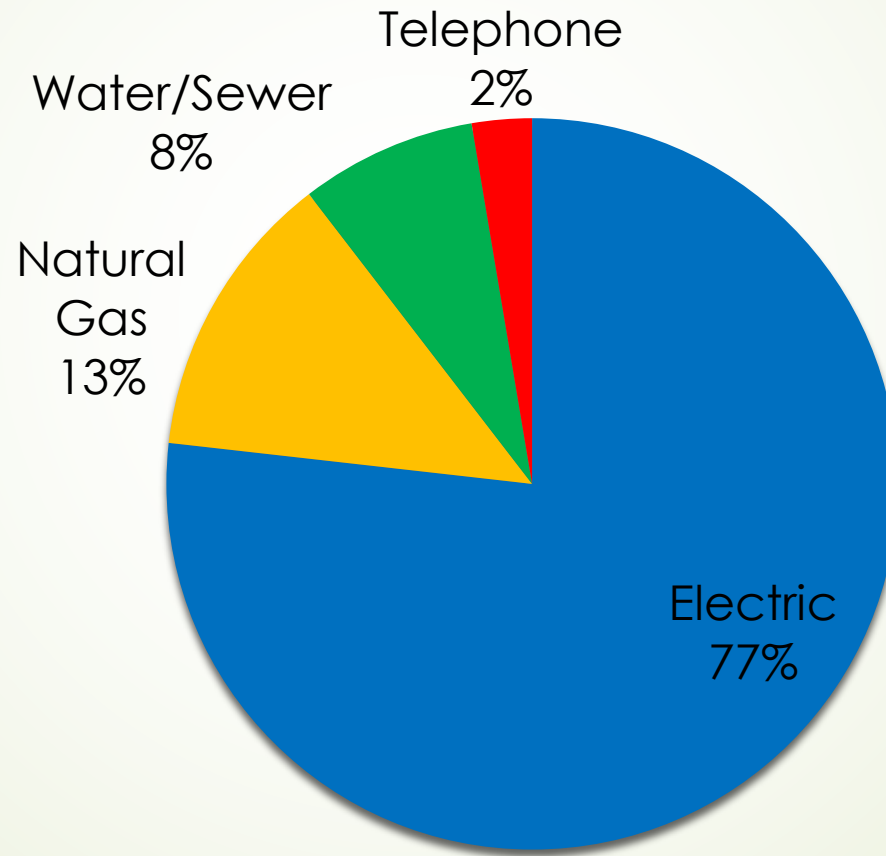
- An easy-to-use dashboard keeps your data organized
- Store all your energy program information in one place
- Enhance your efforts by unifying your team under one system

# Budget Categories





# Utility Cost Breakdown



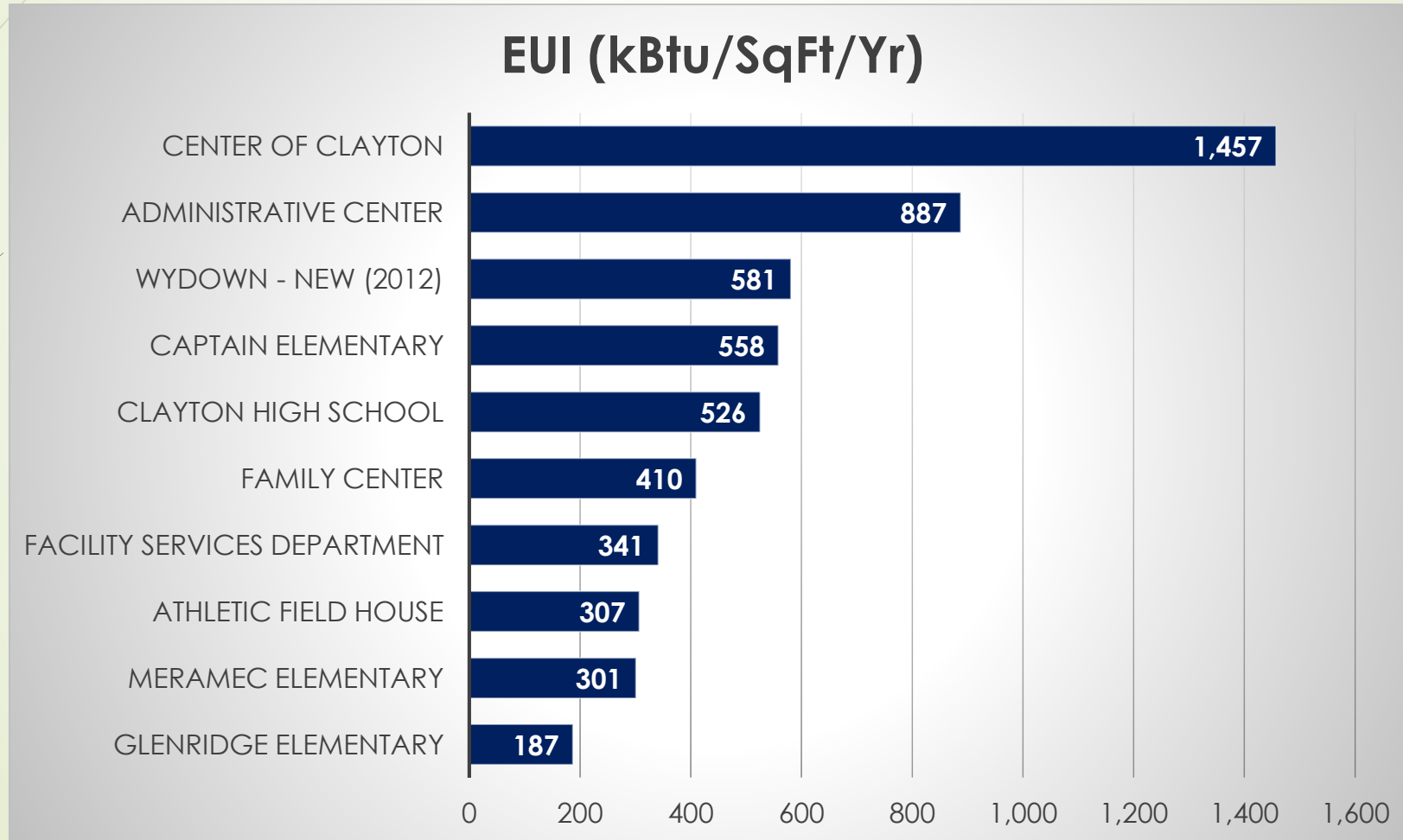


# Facility EUI Ranking Chart

## Clayton School District

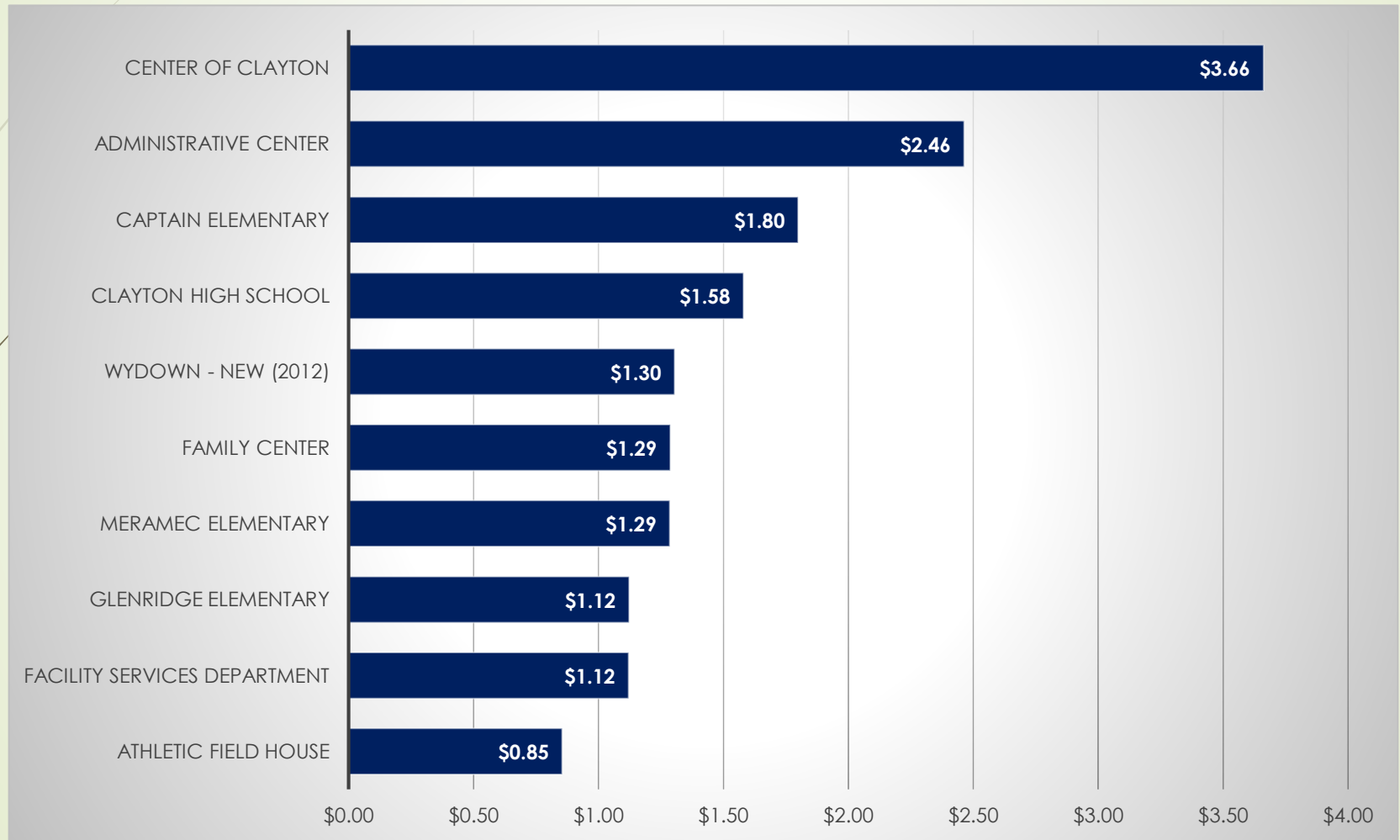
### All Facilities -- 7/2017 to 6/2018

EUI - Energy Use Intensity. Energy use per square foot.  
EUI enables you to compare different sized buildings



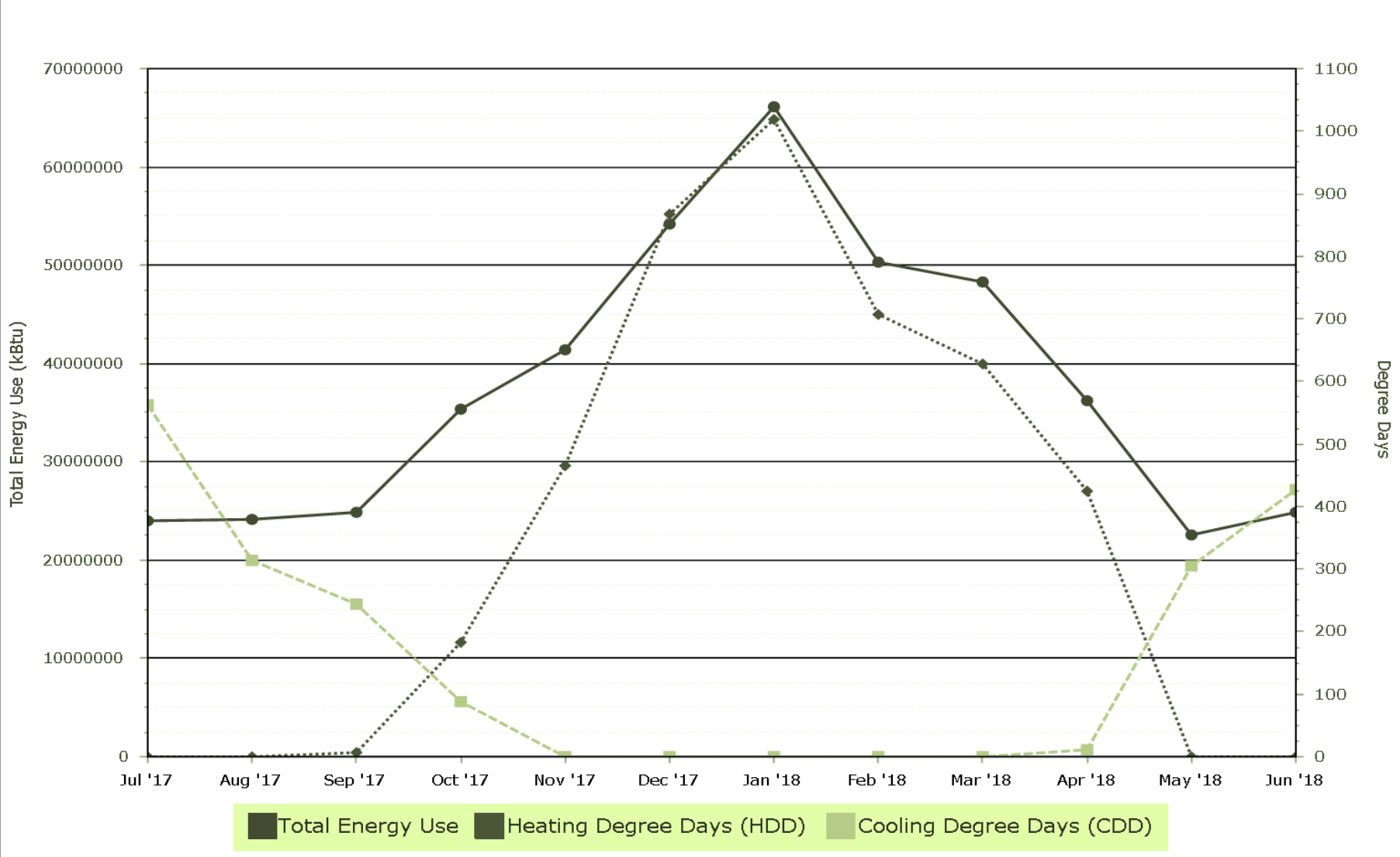
# Energy Cost / SQ Ft

7/1/2017 to 6/30/2018



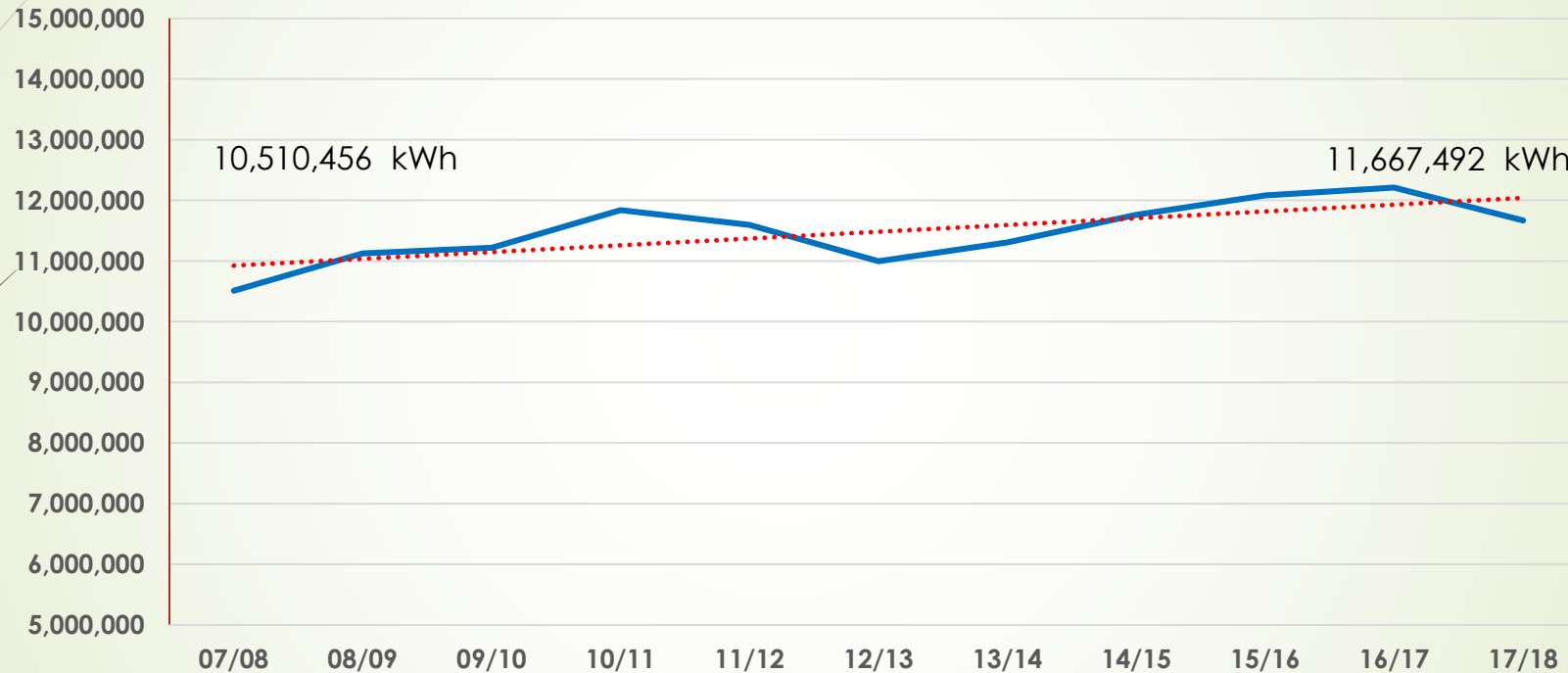


# Energy vs. Degree Days Clayton School District All Facilities -- 7/2017 to 6/2018





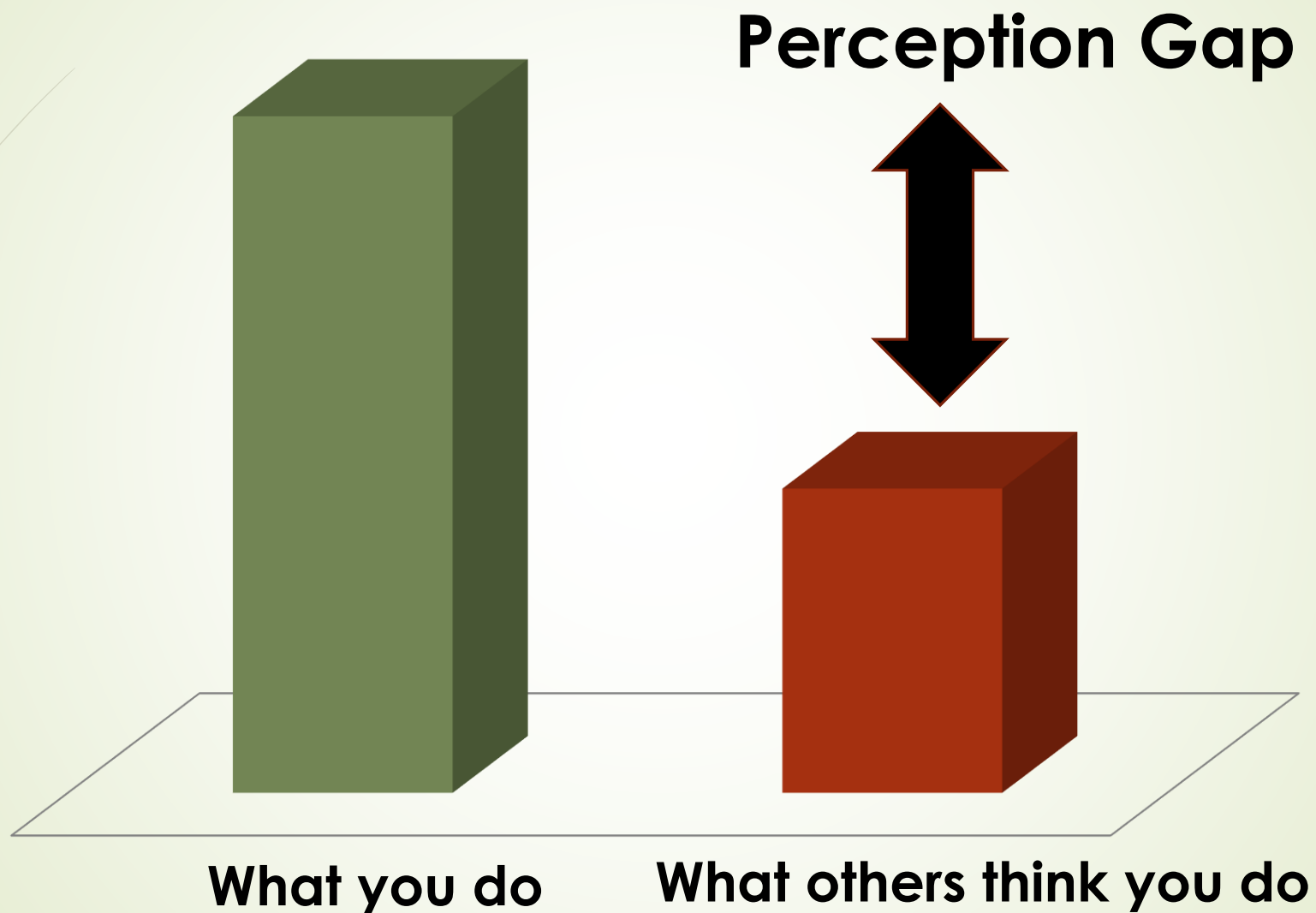
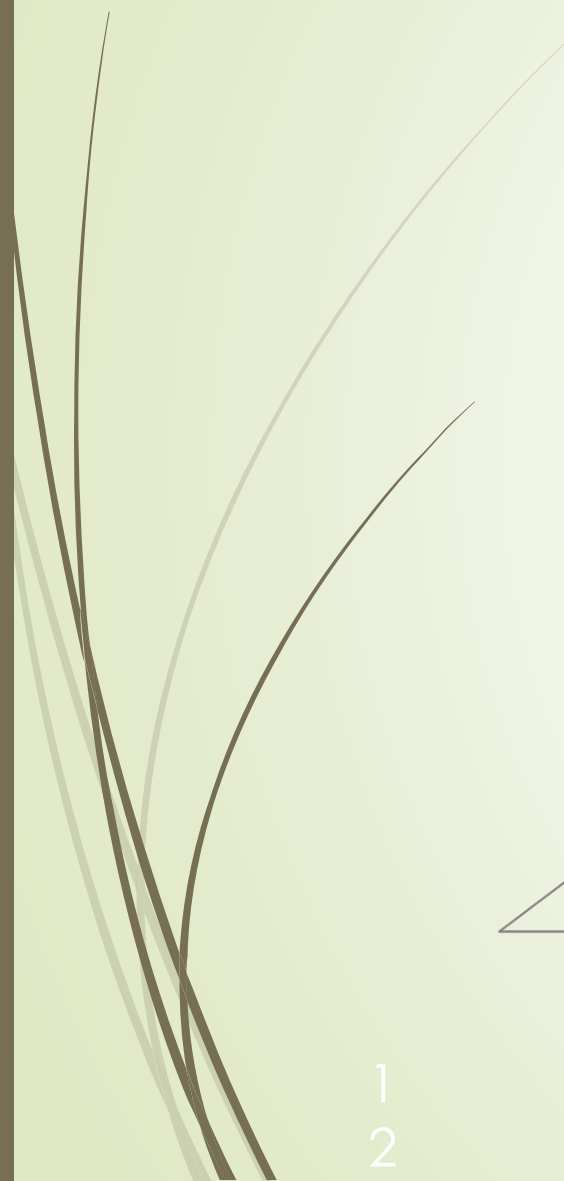
## School Board Question: Are Energy Conservation efforts making a difference ? Answer: Yes



Usage up approx. **14%** over from 07/18 to 16/17. In that same period cost rose **33%**. In addition, the District also saw an increase in square footage of **124,000**.

Even with the additional square footage added and **utility rate hikes** over a ten year period, energy conservation measures seem to have slowed the upward trend in utility usage and cost.





# Green Initiatives



- ▶ **Co – Mingle Recycling Program.**
  - ▶ **Paper, Plastic, Cooper, Metals, Aluminum, Glass, Cardboard.**
  - ▶ **Freon, Batteries, Light Bulbs, Ballast, Wooden Skids, Oil.**
- ▶ **Green cleaning products.**
- ▶ **Use of post consumer products, such as paper towels.**
- ▶ **HVAC building automation systems.**
- ▶ **Reclaim old carpeting.**
- ▶ **LEED design at CHS and Wydown.**
- ▶ **Solar panels at all locations.**
- ▶ **Frequency drives on HVAC Units, Chillers and Pumps.**
- ▶ **LED lighting upgrades and controls.**
- ▶ **Local Utilities' rebate programs for Energy Efficient Projects.**
- ▶ **Recycle electronics, computers, etc.**



# Funding Needs

Bldg. Maintenance Operations



Capital Improvements

Utilities

Landscape Maintenance

Transportation