# TURNING OFF THE LIGHTS – AND OTHER STRATEGIC WAYS TO SAVE ENERGY AND MONEY

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## **TRANSFORMATION TEAM #10**

To educate the campus on utility costs and usage and explore opportunities to reduce usage and costs by changing how employees and the campus consumes utilities.

#### Leader:

Randy Hudak

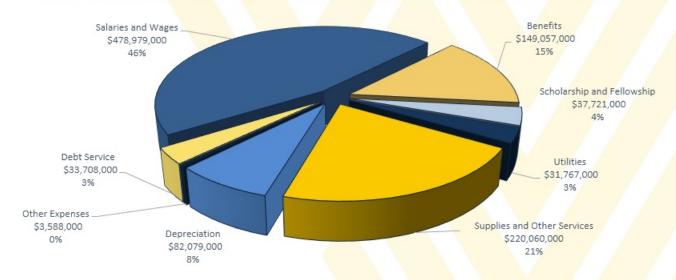
#### Members:

Paula Congelio
Traci Knabenshue
James Kosik
Keith Lawrence
Daniel Olthaus
Joe Patten
Clement Solomon
Stephanie Toothman



## FY 2016 USES - ALL CAMPUSES

Operating & Non-Operating Expenses - \$1,036,959,000



#### FY 2016 Actuals:

Salaries wages and benefits consume 61% of the budget.



#### **ENERGY SOURCE FOR CAMPUS**



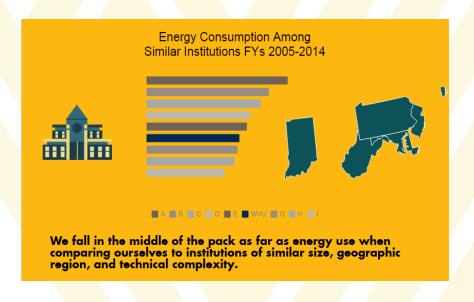
Campus power is purchased from the grid



Steam from MEA in Morgantown is purchased for heating

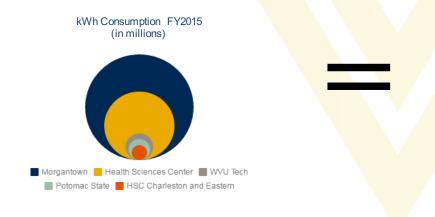


Natural gas is used to heat buildings not serviced by steam lines





#### WVU ELECTRICITY CONSUMPTION



Over **194 million** kilowatt hours of electricity to power its land-grant mission of teaching, research, and service across its 6 main campuses.



That's equivalent to powering 17,636 American homes for a year.

\*Each symbol = 1,000 homes

# \$11 million

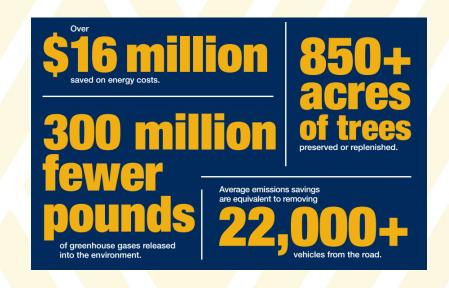
Spent on electricity in FY2015.



#### PHYSICAL INFRASTRUCTURE IMPROVEMENTS

### **Performance Contracting**

- To implement efficiency improvements with minimal up-front costs, and use the savings to pay for the work over time.
- Began in 2006 and now in its 3rd phase has increased energy efficiency in over 70 campus buildings.





## PHYSICAL INFRASTRUCTURE IMPROVEMENTS

## **Building to LEED Equivalent**

All new builds meet requirements that are used to fulfill LEED certification.





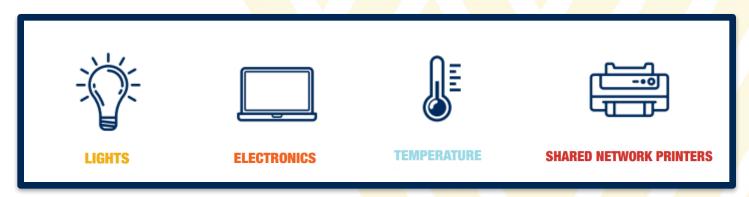






## **BEHAVIOR-BASED ENERGY PROGRAM**







#### **BEHAVIOR-BASED ENERGY PROGRAM**



#### **LIGHTS**

/ Turn off lights when leaving a room
 – including desk lamps, task lights,
 overhead lights



#### **ELECTRONICS**

- / Use WVU ITS power management options for computers
- / Unplug battery chargers when not in use
- / Use centralized appliances (refrigerators, microwaves, coffee pots)



#### **TEMPERATURE**

/ Keep office temperature between 68-74 degrees Fahrenheit and report extreme temperature changes



#### **SHARED NETWORK PRINTERS**

/ Use centralized printers and scanners, and double-sided printing

For more tips on how to save energy visit bureaucracybusters.wvu.edu



#### **BEHAVIOR-BASED ENERGY PROGRAM**





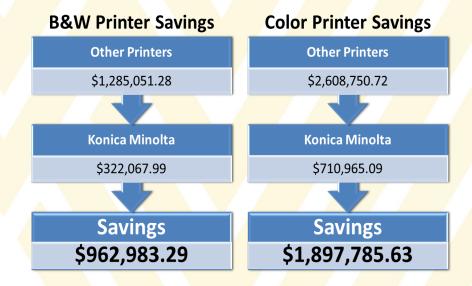




#### POTENTIAL SAVINGS

## HELP US REDUCE ELECTRICITY USE BY 10%









# Challenges create opportunities.



## **Open Discussion**

To learn more or share ideas, visit www.bureaucracybusters.wvu.edu

