Green Energy Solutions
Today's Savings.....Tomorrow's Future

# ColonialWebb Headquarters

Richmond, Virginia

ColonialWebb's Richmond headquarters is the company's center of operations for service, fabrication, and construction. From coordinators, technicians, office support to engineers and manufacturers, the two connected facilities, a 26,000-square-foot office and an 83,000-square-foot manufacturing center accommodate over 300 employees.

## The Challenge

ColonialWebb was concerned about their growing utility costs. They wanted to find ways to reduce these costs with projects that provided return on investments of 25% or better. Management was also interested in taking the opportunity to improve the lighting in their manufacturing center to increase productivity and safety.

*"The new high efficiency lighting fixtures that were installed in the manufacturing shop have dramatically improved lighting throughout the area, promoting increased productivity and safety while providing significant energy savings. The advantages of our new waterless urinals means less water usage and decreased maintenance costs. And finally, the new flush valves regulate the amount of water used, depending on need, which also helps to lower water costs. We are very happy with the savings!"*

-John Anderson,
Resource Manager,
ColonialWebb

## The Solution

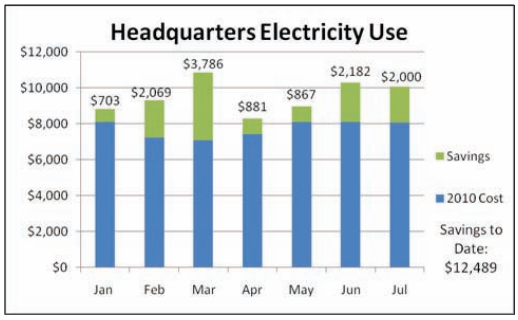
The Green Energy Solutions Team came in and performed an Energy Dig to find out why ColonialWebb's utility bills were higher than normal and to discover ways to reduce them. The GES Team developed several Energy Conservation Projects with a return on investment that fit the company's need.

ColonialWebb decided to address their energy needs by:

- Group relamping the office from 32W bulbs to 28W TBs
- Installing occupancy sensors and controls for each office
- Adding a new T8 High Output System (50 Foot Candles per watt) to their Fab Shop to improve lighting quality
- Replacing their break room Roof Top Unit with a new 10-ton, High Efficiency (14 EER)

To address their high water bills, ColonialWebb elected to:

- Install waterless urinals in the men's bathroom
- Install dual flush valves for the woman's bathroom
- Install a rain gauge for irrigation
- Add a sewage exclusion meter to lower water bills by eliminating sewage costs for irrigation




**Low Cost/No Cost Savings**

| Finding | Saving | Cost |
|---|---|---|
| Reprogrammed RTU | $3,500 | Free |
| Reprogrammed Irrigation System | $1,100 | Free |

## The Results

ColonialWebb is on course to annually save $21,000 in energy costs and 300,000 gallons of water. They are on target to meet their four year return on investment requirement.

ENERGY STAR PARTNER

ColonialWebb®