



Schneider Electric Project Update

6.9.22



Life Is On

Schneider
Electric



The Gulf Shores City Schools Core Team



Todd Smith

MARKET TEAM LEADER



Hal Whitsitt

PROJECT DEVELOPMENT
MANAGER



Haley Rogers

MARKETING SPECIALIST



Madalena DeWitt

REGIONAL CLIENT COORDINATOR



Danny Thompson

CLIENT SERVICES MANAGER



Dan Cook

PROJECT MANAGER



Eric Sayre

SITE SUPERINTENDENT

The Plan for the District

Healthy Learning Environment

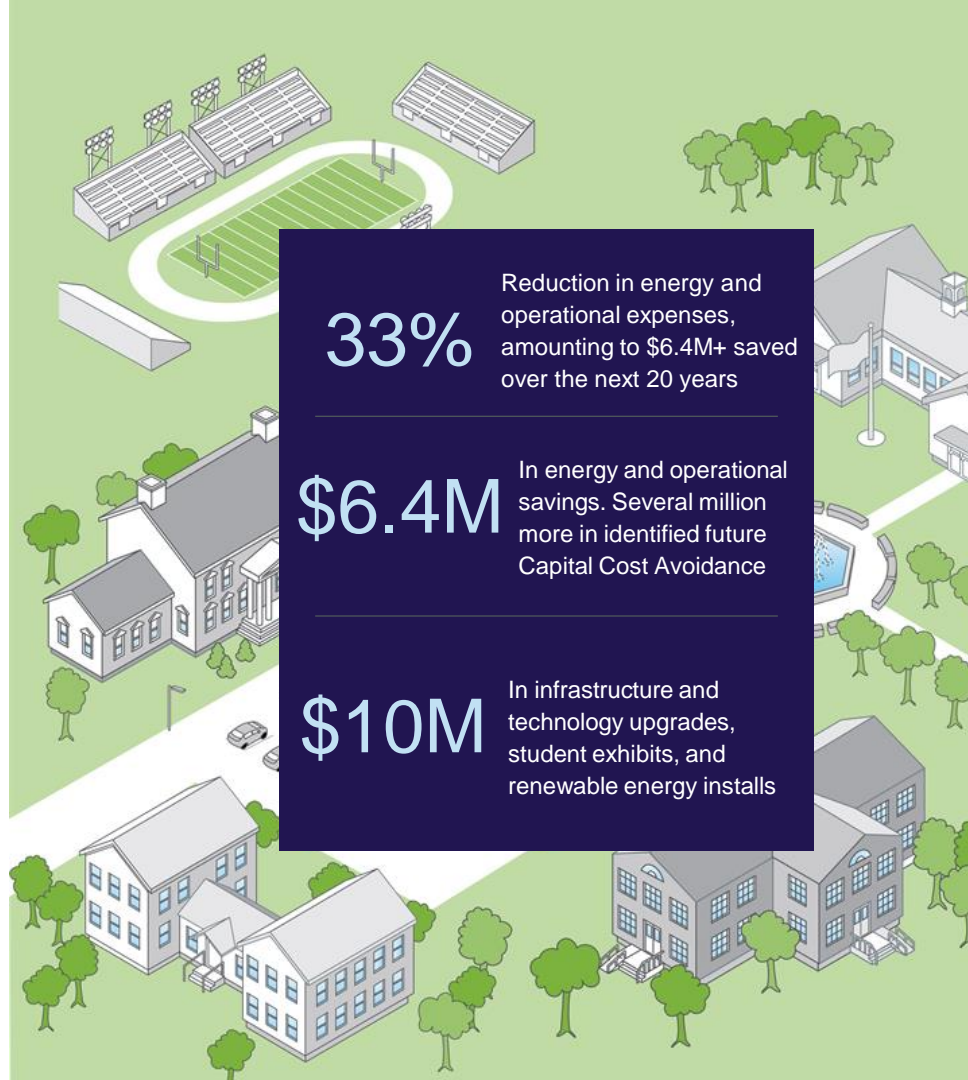
- Brighten classrooms, gyms, hallways and outdoor areas with LED lighting upgrades
- Enhance indoor comfort with comprehensive mechanical redesigns and replacements, as well as roofing at the high school

Innovative Solutions

- Upgrade technology with an improved VoIP system, a new building automation system, and Wi-Fi expansion
- Engage students with interactive STEAM learning areas, touchscreen dashboards, and exhibits

Community Engagement

- Renew energy with visible solar installations, including Smartflowers, solar tree, charging benches, and library skylights



Lighting Upgrades

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



Upgrade Interior to Full LED

- Improved light levels, significantly reduced energy, & reduced maintenance
- Added occupancy sensors throughout to ensure lights are not left on when unoccupied

Update Life Safety Fixtures

- Emergency egress fixtures brought up to state code requirements

Lighting, Occupancy Sensors, Solar Tubes, Life Safety
Status - Complete

Mechanical Needs

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



High School

- Chiller plant replacement
- Variable pumping

Middle School

- Replaced 28-year-old hydronic HVAC system with new VRF system (39,000 ft²)
- Provide individual room temperature control

Elementary School

- Replace two 25-year-old boilers
- Replace three 15-year-old rooftop units
- Variable pumping

Mechanical Needs

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



1998



1992



1996



Tankless Domestic Water Heaters

- Replaced 24+ year old heaters/boilers at all 3 schools
- One of the first tankless domestic hot water projects for the Southeast

***All Mechanical Scopes
Status – Projected
Completion End of
September 2022***



Pipe Insulation Issues

ELEMENTARY SCHOOL



Deteriorating Pipe Insulation

- Damaged insulation was allowing humid plenum air to condense on cold chilled water pipes.
- Condensation dripping onto ceiling tiles, causing further damage.

Install New Pipe Insulation

- Over 3,300 ft of new CHW pipe insulation

***Pipe Insulation Scope
Status – In progress***

Roof Re-Covering

HIGH SCHOOL



Main Building – 97,000 ft²

- Original 1998 roof system had reached end of useful life.
- Bubble separation and granule loss throughout, numerous leaks

New Membrane Roofing

- Installed new white, reflective PVC membrane
- Prevent future leaks and damage to building

***High School Roof
Status - Complete***



Building Automation System

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



Replace Old, Failing System

- Bad sensors and control devices – uncomfortable and inefficient

Provide Effective Control

- Improved visibility into each system
- Manage runtime to extend equipment life

Improved Troubleshooting

- Alarms & submeters notify facilities staff of issues early.

Status – In Progress

MAKE WAVES!



To protect our
environment



To boost our
innovation



To engage our
community

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Solar Structures Lift Tree & Smartflower

Installation Progress (3) Structures



Renewable Energy – Solar Tree

HIGH SCHOOL



Spotlight Solar Tree

- Provides shade for students and a place to sit and charge devices
- Custom signage, school colors
- RGB lighting
- 22' tall

Learning Opportunities

- Support STEAM curriculum, generate career interest

***Renewable Energy Scope
Status - Complete***

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Renewable Energy – Smart Flowers

HIGH AND MIDDLE SCHOOL



Smartflowers (2)

- Opens and closes automatically
- Tracks the sun across the sky
- 16' tall

Learning Opportunities

- Support STEAM curriculum, generate career interest

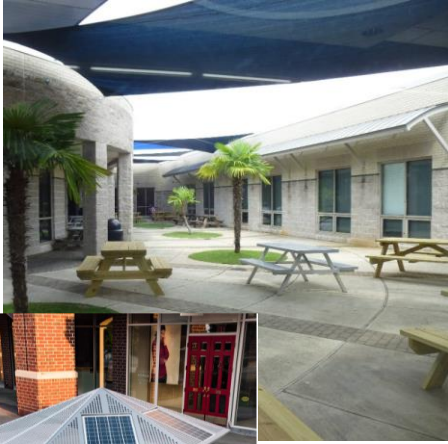
***Renewable Energy Scope
Status - Complete***

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Renewable Energy

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



Solar Charging Benches

- Off-grid solar power to provide a place to sit and charge devices

Solar Charging Picnic Tables

- Off-grid solar power to provide a place to sit in the shade and charge devices

Learning Opportunities

- Support STEAM curriculum, generate career interest

***Solar Benches and Tables
Status – Fall Completion***



Voice-over IP

HIGH, MIDDLE, AND ELEMENTARY SCHOOL



New VoIP System

- Replaced existing leased VoIP with new open, cloud-based platform
- Full annual support included
- \$14,000 annual savings

Increased Capabilities

- Integrating with existing intercom systems
- IP loudspeakers for outside announcements
- Handsets in each classroom
- Greenhouse WiFi coverage

VoIP Scope

Status – Summer Completion

Collaborative Marketing Plan

Branding

- Initiative branding
- Project signage
- Entranceway up-lighting
- Window stickers

PR & Media

- Frequent media communication
- Dedicated webpage
- Social media
- Video series
- Open house/ribbon cutting

Exhibits & Installs

- ES interactive stations
- ES ecosystems wall
- MS outdoor amphitheater exhibit
- HS front entrance enhancements
- HS outdoor teaching area
- Interactive project dashboard

Solar Energy

- Benches
- Picnic tables
- Solar Tree
- Smartflowers

Sharing the Story

CUSTOM MARKETING AND COMMUNICATIONS



Sharing the Story

CUSTOM MARKETING AND COMMUNICATIONS

MAKE WAVES!
Innovation | Environment | Community

Welcome back!

At Gulf Shores City Schools, we believe that our core values reflect every action in our district. The Next Wave – a master planning, programming and conceptual design process – will shape the future of our environment, our commitment to innovation and our local community for generations to come.

In an effort to continue this mission, we have launched a partnership with Schneider Electric. Together, we have designed a comprehensive project that will update our facilities and increase our efficiency. These updates will help us to modernize our learning environments, improve overall operational efficiency, and enhance student engagement through new software, solar components, and more.

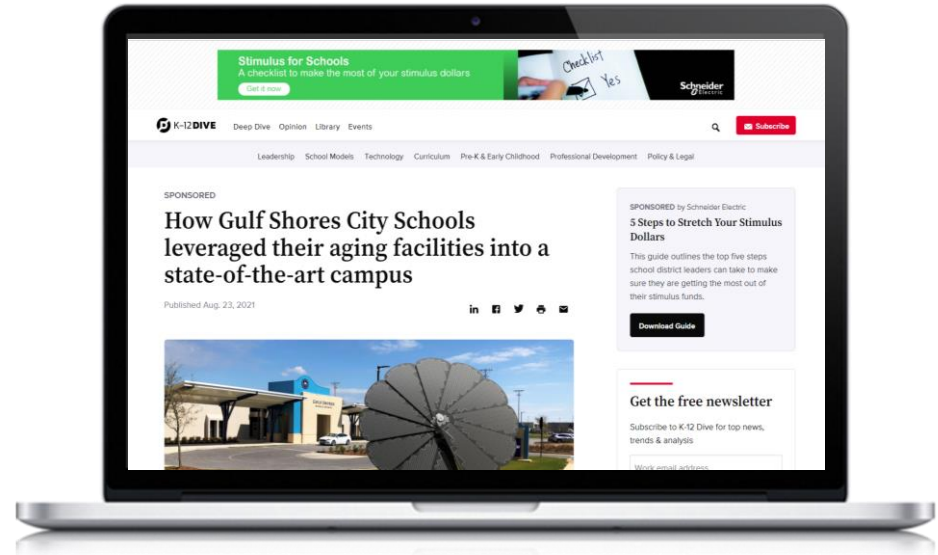
Your participation is key to making this project successful. Working together, we can generate over \$6.4 million in energy and operational savings and make a significant impact on the district, the community, and the environment.

33% Reduction in energy and operational expenses, amounting to \$6.1M saved over the next 20 years

\$10M in infrastructure and technology upgrades, sustainable, and renewable energy credits

In case you missed it, you can find the news article with more project details [here](#).

Life Is On Schneider Electric



- Sponsored K-12 Dive article for national attention
- 222,000 impressions national and locally

Elementary School

Ecosystems Student Engagement Exhibit

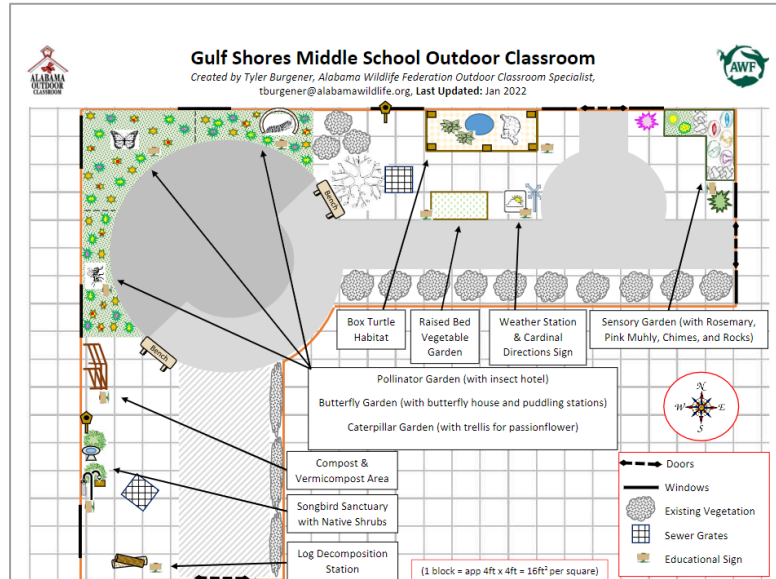
- Follows progression of five ecosystems through school
- Larger signs outline ecosystem
- Smaller signs identify plants
- Landscaping:
 - Plant foliage that can survive in climate
 - Remainder will be graphic pop-up replica



Middle School

Outdoor Amphitheater Exhibit

- Signage for new outdoor classroom



Middle School

Interactive Project Dashboard

- Project information on an interactive touchscreen
- Web accessible information
- Content customizable throughout partnership



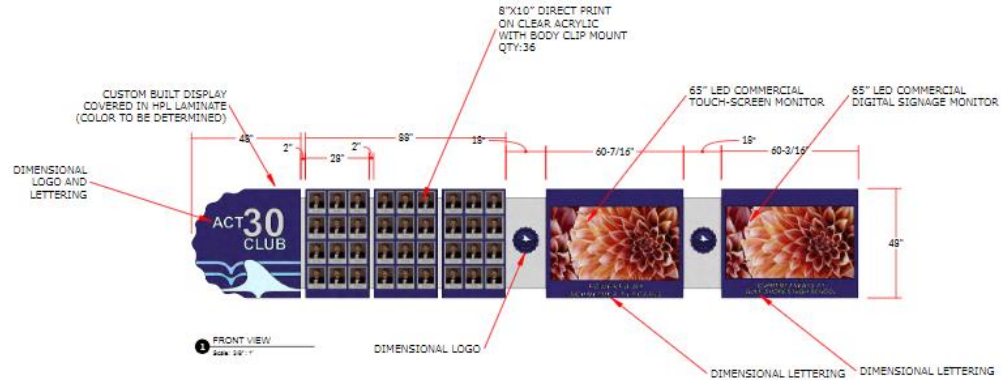
Front entrance



High School

Front Entrance Enhancements

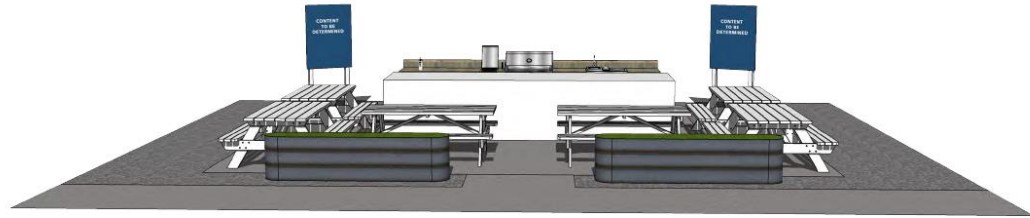
- Interactive touchscreen with project information
- ACT 30 Club & National Merit Scholars
- New display screen for announcements



High School

Outdoor Kitchen Additions

- Signage for outdoor teaching area
- Rain barrel signage



A Big Thanks to You!



Gulf Shores City Schools Project

Awarded Schneider Electric 2022
Southeast USA Project of the Year
&
2022 Dream Big for Clients Award