

A CHILD'S PLACE

Explore - Learn - Create



THE CHALLENGE

One of the lesser highlighted challenges faced during the COVID 19 Pandemic was safe and trusted childcare for both front line workers and those who did not have the option to work from home. A Child's Place in Greenville NC puts the highest priority on the safety and care of their staff and students. They needed to keep their doors open for the community.

The facility also needed to reduce high utility costs without sacrificing comfort to the occupants. After reviewing several months of utility bills, it was determined that one of the leading factors for the high costs was equipment running 24/7, and no ability to run equipment based on demand.

THE SOLUTION

CMS Controls installed a WiFi-based Distech Controls system. This system, with a Web accessible interface allowed the units to be controlled and monitored remotely. CMS Controls also developed a schedule based on occupied times to prevent the equipment from running 24/7.

Each fan coil unit was retrofitted to have modulating valves to allow for more precise temperature control as well as more efficient use of hot and chilled water. This efficiency along with the ability to more precisely control the chiller and boiler in conjunction with outside air allowed the building to stay comfortable and safe all while recognizing utility savings to pay for the capital project

The controls retrofit was completed in the Summer of 2020, and the customer is now enjoying much lower consumption of natural gas, from a summertime baseline of around 30,000 kBtu to a new summertime baseline of around 5,000 kBtu. Additionally the customer is seeing a change of energy cost intensity saving them over \$1.00 per square foot per year!

BUILDING

Single Story Day care / Preschool Facility

Approximately 15,000 sq ft
12 Classrooms , 4 Offices and
1 Kitchen

CASE STUDY HIGHLIGHTS

15 Fan Coil Units
Boiler
Air Cooled Chiller
Hot Water and Chilled
Water Pump



ABOUT THE CLIENT

Children’s World Learning Center has multiple “Five-Star” child care centers located in Greenville, NC that have been serving children and their families in the community for over 30 years. Their top priority is the well-being of the children under their care and their mission is for every child to learn, create, and explore in an environment that is nurturing and safe. Both of these elements combine to give parents the peace of mind they need to feel confident that their child is in the best place possible when they are away from home for the day.

Children’s World Learning Center serves children 6 weeks through 12 years of age. They believe that a caring, positive, and family-centered environment is the best foundation to foster developmentally appropriate learning experiences.

HOW CAN WE HELP YOUR BUSINESS GROW?

CMS Controls is the leading building automation and controls company across the Carolinas, Georgia and Virginia. At CMS, we have provided hundreds of installations across the southeast with proven cost-effective, energy saving designs. From building automation, thermal imaging, lighting controls, and systems integration, CMS Controls has a solution for every type of facility. Our focus is to design and maintain a building automation system that minimizes energy consumption in our customer’s facilities. CMS systems provide an interactive graphical interface which allows any operator to easily access and fine-tune their system for precise control.



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