COMMSCOPE®

Climate Pledge Arena wins in sustainability with help from ERA® digital DAS

$1.5 million projected 10-year CapEx/OpEx savings	**89 percent** less space than legacy system	**up to 55 percent** less cooling power than analog system	**up to 55 percent** less equipment power than analog system	**89 percent** less cabling than analog system

Climate Pledge Arena is one of the world's most sustainable sports venues. After undergoing a major re-imagination, the arena opened in fall 2021 with the goal of becoming the world's first net-zero-carbon arena. To accomplish this goal, Oak View Group, the arena's owner and operator, bought low embodied carbon products, invested in renewable energy and reduced the arena's energy use. The 800,000-square-foot arena is home to the Seattle Kraken (NHL) and the Seattle Storm (WNBA). It can hold up to 17,100 for hockey games, 18,100 for basketball games and 17,200 for concerts.

CLIMATE PLEDGE ARENA

Saving green by going green

As with Climate Pledge Arena, many large sports venues are working to become better stewards of the planet. They're using their highly visible facilities to showcase sustainability by reducing their energy use, carbon footprints and costs. Oak View Group recently increased its commitment to sustainability by introducing the Green Operations and Advanced Leadership (GOAL) program through its OVG360 division, which provides venue management teams with clear guidelines for how to minimize their buildings' effects on the environment.

Technology sustainability plays an important role in reducing energy consumption, space and materials requirements, and operating and capital costs. CommScope's all-digital ERA distributed antenna system (DAS) is key to helping venues become carbon neutral while saving money and providing an immersive guest experience.

The network delivers robust in-building cellular coverage, giving guests the ability to communicate anywhere, anytime on

their mobile devices. In addition, ERA digital DAS provides high-performance in-building 5G connectivity—the standard for guests to share videos, order concessions and watch game replays. The technology shrinks the footprint required to support in-building cellular, allowing venue owners to realize significant savings while meeting sustainability objectives and promoting responsible consumption.

5G and digital DAS—doing more with less

ERA digital DAS has a smaller head-end footprint than traditional analog DAS, thanks to fewer and smaller hardware components. By using interfaces such as Common Public Radio Interface and Open Radio Access Network for mobile network operators (MNOs), CommScope's digital network has up to a 90 percent smaller footprint in MNO hubs and even more in a venue's headend. Legacy analog networks simply can't match the capacity, performance and sustainability of ERA digital DAS.

Climate Pledge Arena has taken advantage of CommScope's ERA digital DAS solution, achieving upfront space savings of 1,645 square feet. Up to 89 percent less space is used in the arena's DAS head-end room as compared to what an analog network would require. This equates to capital expenditure savings or avoidance by reducing the head-end space needed for the DAS.

ERA digital DAS has also delivered lower total annual power and cooling consumption, using up to 55 percent less energy—which is equivalent to 182 metric tons of carbon dioxide—than an analog option. This equates to annual operating expense savings or avoidance and a lower carbon footprint that contributes to net-zero carbon and the OVG365 GOAL. The net CapEx and OpEx savings over 10 years is estimated at $1.5 million.

As another benefit, CommScope's digital DAS uses standard singlemode fiber cabling with a unified clean design for infrastructure and pathways—reducing materials and costs significantly. In contrast, traditional coaxial cabling, which supports analog DAS systems, requires multiple runs throughout a venue, taking up more closet and pathway space.

ERA digital DAS brings game-changing benefits

- Saves space by moving baseband functions across multiple buildings to a single headend or to the operator's facilities
- Reduces head-end size and power requirements by eliminating the need for analog-to-digital conversions
- Reduces power needs by adjusting power levels based on traffic
- Allows operators to adjust network capacity by sector or channel through a web-based interface
- Saves time and labor with automated management and monitoring system

“LEED-ing” the way

Sports venues are increasingly taking a whole-building approach to sustainability. That includes connectivity networks and equipment. By choosing CommScope’s digital DAS solution, they’re investing in groundbreaking technology that makes in-building solutions simple to install, easy to manage and economical to operate. At the same time, the digital system gives operators, neutral hosts and venues the room they need to grow as new technologies and applications come to market.

Choosing ERA digital DAS also helps put venues on the path to Leadership in Energy and Environmental Design (LEED) certification. LEED is the gold standard for the design, construction and operation of high-performance green buildings. Thirty-four sports facilities in the United States and Canada have achieved LEED certification, according to Sports Business Journal. LEED credits focus on energy use, including requirements for minimum and optimized energy performance. ERA digital DAS can help reduce building energy use and materials, making it appealing to those aiming for LEED certification, like Climate Pledge Arena.

SOLUTIONS

- ERA digital DAS
- 40 zones
- 376 ERA CAP remotes
- 161 DAS antennas

Explore ERA solutions

CommScope pushes the boundaries of communications technology with game-changing ideas and ground-breaking discoveries that spark profound human achievement. We collaborate with our customers and partners to design, create and build the world’s most advanced networks. It is our passion and commitment to identify the next opportunity and realize a better tomorrow. Discover more at commscope.com.

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