



Cochran Helps Iberdrola Renewables Breeze into Expanded Headquarters

Iberdrola Renewables' North American division based in Portland, Oregon, is a leader in optimized energy solutions for wholesale and large commercial and industrial customers. After Cochran's electrical division worked on Iberdrola's first expansion for their headquarters in 2003, Cochran has become the company's go-to contractor for every electrical, technical and audio/visual build-out, expansion and upgrade. In late 2009, when Iberdrola needed a quick turn-around on Audio/Visual design and installation for their Wind Operations Division, they called Cochran's A/V team.



THE CHALLENGE

“This would normally have been a six month engagement but Cochran got it done in two months. They know intrinsically how we want things set up. They know exactly what we want decision-wise.”

Edward Robison
 Manager, IT Support

Iberdrola's A/V needs included both wind operations monitoring and general business applications in a newly expanded facility. This audio/visual system required a flexible design, capable of supporting an array of computer sources and multiple proprietary applications being viewed simultaneously. Not only were the system requirements complex, but the design had to be completed in only eight days to facilitate the project schedule. Cochran then completed the full install in less than two months.

THE COCHRAN SOLUTION

Cochran's innovative A/V solution for Iberdrola's Wind Operations "control room" was the installation of a video wall of twelve, 46" NEC LCD flat screens to allow engineers to visually monitor the company's 45 North American wind plants in real time. The live feeds to the double row of six monitors display such critical data as each turbine's megawatt output, oil temperature and blade pitch and pivot.



In order to accurately track operations at all of Iberdrola's locations throughout North America, six Primex IP synchronous network system (SNS) clocks were installed above the video wall to provide a visible, precise time-check of all North American time zones, Greenwich Mean Time and Madrid time, where the company's headquarters are located. The solution is complemented by an amplifier and eight ceiling speakers with a wireless microphone and the ability to broadcast alarm messages from the computers during

emergency situations. An AMX Modero touch screen controls all of the audio/visual functions associated with the video wall, creating a seamless user interface that is easy to use.

Additionally, Cochran installed three wall-mounted video monitors in the lobby for a digital signage application. Two wall mounted monitors located in the office area allow company engineers to monitor system on a more granular level.

Finally, Cochran upgraded video and teleconferencing for Iberdrola's new conference room, installing a wall-mounted video monitor which integrated a Tandberg video conferencing unit, the latest in HD video conferencing.

AUDIO/VISUAL SERVICES INSTALLED BY COCHRAN

DISPLAY SYSTEMS

- 12 NEC LCD Displays (2x6) with wall mounting hardware
- 5 – 46" LCD wall mounted panels for lobby and office applications
- 2 RGB 2500 880-8/8/6- media wall processor 8 video + 8 graphics / 6 outputs
- 1 Extron CrossPoint Ultra 1616 HVA 16X16 matrix with audio
- 6 Primex IP clocks
- 1 Tandberg HD video conferencing system

AUDIO SYSTEM

- 8 Tannoy ceiling speakers
- 1 BiAmp amplifier
- 1 Senheiser wireless microphone system

CONTROL SYSTEM

- 1 AMX 12" Modero color video wall mounted touch panel
- 1 AMX NI-3100 Control processor
- 1 AMX NXC-COM2 - RS-232 module
- 1 Equipment rack with power distribution

WARRANTY

- Three year extended service and support