

Rockwell Collins

BUILDING A CULTURE OF SUSTAINABILITY

It had been almost 40 years since Rockwell Collins had constructed a new building on their corporate campus in Cedar Rapids, Iowa. When the aviation communications and electronics company decided to build a new office/electrical laboratory, they set a number of goals to establish a new standard for future construction projects. One priority was to create a model for the company's 15- to 20-year plan to renovate existing buildings and expand its campus. The other major goal was to build "green" in accordance with company values.

Rockwell Collins is strongly committed to environmental stewardship. Over the past 10 years, the company has reduced landfill usage by 70 percent and hazardous waste generation by 82 percent. The company purchases 10,000 megawatt hours of renewable energy certificates each year as an

innovative and effective way to reduce greenhouse gas emissions.

Even with a successful track record of sustainability strategies, Rockwell's construction team wasn't sure they could attain LEED certification. "When I suggested it to the team, they thought I was crazy," said Mike Driscoll, Manager of Rockwell's Facilities Engineering. "Historically, LEED buildings cost at least \$250 per square foot. But the more we looked at current strategies and the potential long-term savings, it began to make sense."

For two months the team investigated options. "We recognized the company implements a significant number of LEED strategies already," said David Landsverk, Senior Environmental Engineer. "Energy-efficient lighting, building automation, efficient motors, these are all company standard. The company has integrated sustainable practices into almost every area."

Executive management agreed it was the right thing to do. Ryan, Rockwell and OPN Architects partnered to plan, design and construct a 120,000 square-foot pre-engineered building for less than \$100 per square foot. "Working with a company like Rockwell raises the level of conversation because they're engineers," said Doug Stulken,

Photo by: Main Street Photos



Rockwell Collins Building 130 — Cedar Rapids, IA
Architect: OPN Architects



Rockwell Collins Building 130 Training Room
— Cedar Rapids, IA
Architect: OPN Architects

Photo by: Heinrich Photography

Senior Project Manager for Ryan. "Their electrical team helped with energy modeling and they collaborated with us on the security, fire and mechanical aspects of the project."

Rockwell's environmental stewardship also extended to the job site. The team set a goal to recycle 75% of construction waste. Ryan implemented the program, managing the recycling containers and educating all field workers — which at peak times was more than 200 individuals per day. Recycling became a routine discussion item at all jobsite meetings and was enforced daily. The result was a staggering 99.28% of construction waste diverted from the landfill.

"Ryan executed flawlessly," said CT Ling, Senior Mechanical Engineering for Rockwell's Facilities Engineering. "They were a true partner. We cannot

say enough about their ability to track the LEED criteria and educate subcontractors about LEED."

"Ryan delivered a pre-engineered LEED building in 11 months. That is really unique," said Driscoll. "We are now true believers! Anyone at any price point can build a LEED building."

LEED STRATEGIES

99% of construction waste — more than 1,000 tons — was diverted from the landfill

Building footprint covers only 2.75 acres

1" of rainfall will produce 75,000 gallons of water captured from the roof

More than 30 dedicated parking spaces for low-emissions and fuel-efficient vehicles

385 gallons of water use reduction through waterless urinals, dual-flush toilets, etc

Exceeds ASHRAE 90.1-2004 minimum energy performance requirements by more than 20%

More than 15% of building material is recycled content