

King Abdullah University for Science & Technology, Kingdom of Saudi Arabia



LANDSCAPE DESIGN:

HOK USA

DEVELOPER AND PROJECT MANAGER:

Saudi Aramco

LANDSCAPE CONTRACTORS:

SALCO, RABYA Landscaping & BMTC
LISA Div.

COMPLETION DATE:

September 2009 (Stage One)

RAIN BIRD SALESPERSON:

Jamal AbouChakra

RAIN BIRD PRODUCTS:

- Maxicom²®
- PEB Series Valves
- 5004 SAM Rotors
- 1800[®] Series Sprays
- Rotary Nozzles
- Root Watering System

PROJECT OVERVIEW:

Still under construction, King Abdullah University of Science and Technology (KAUST) is an international, graduate-level research university dedicated to inspiring a new age of scientific achievement in the Kingdom of Saudi Arabia that will benefit the region and world. The core campus is located on more than 36 square kilometers along the Red Sea at Thuwal—about 80 kilometers north of Saudi Arabia's second-largest city, Jeddah.

CHALLENGE:

With the 2009/2010 academic year looming, the project's numerous contractors and subcontractors needed to effectively coordinate efforts in order to meet a tight Stage One deadline. Additionally, the same water source/mainline would need to supply landscape irrigation, fire hydrants and domestic use, making high water efficiency a key objective.

SOLUTION:

On a weekly basis, Rain Bird met with representatives from each contractor, as well as developer/project manager Saudi Aramco, to report progress and coordinate tasks. For maximum water efficiency, one Maxicom²® Central Control System was installed to schedule water for the campus area, while a second was installed to manage the public and parks area. Residential zones and support buildings are operated remotely by the second Maxicom² system, enabling the maintenance contractor to more easily monitor irrigation.

COST AND WATER SAVINGS:

Connected to an on-site weather station for real-time ET data, Maxicom² Central Control has allowed KAUST to enjoy significant water savings over time-based control. Additionally, Root Water Systems (RWS) for all trees and palms have helped the site save up to 30 percent in water. Rotary Nozzles round out a system that establishes a new standard for water efficiency in the Kingdom of Saudi Arabia.