



Princess Nourah Bint Abdulrahman University, Riyadh, Saudi Arabia

World's Largest Women's University Looks to Rain Bird® for Remote Irrigation System Management

The Saudi government's Ministry of Finance and Ministry of Higher Education are financing a \$11.5 billion project to construct Princess Nourah Bint Abdulrahman University (PNU) for Women. The university will include administration buildings, faculties, a 700-bed student hospital, laboratories, research centers, its own railway system and housing for students and staff.

THE CHALLENGE

The university is expected to cover 86 million square feet and irrigation for the campus will be a massive undertaking. Irrigation designers must also take into account that due to Saudi Arabia's culture and regulations, maintenance crews will not be permitted on campus during daylight hours once the university is in session.

THE SOLUTION:

The project design team has nominated Rain Bird for the impressive task of irrigating the largest women's campus in the world and providing a low maintenance solution that will allow for remote management during daylight hours. The industry leader in intelligent irrigation, Rain Bird, is up to the challenge and has an excellent game plan for PNU.



Rain Bird Central Control

Core Products Used:

- Rain Bird Central Control
- FS Series Flow Sensors
- ESP-SAT Series Satellite Controller
- WS-PRO2 Weather Station

KEY OBJECTIVES

- ✓ **Centralized Control**
- ✓ **Remote Access**
- ✓ **System Monitoring**



Site Report: **Princess Nourah Bint Abdulrahman University, Riyadh, Saudi Arabia**

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APPROACH:

Give PNU Control from Afar

Rain Bird will set up its **Central Control** system for PNU, through which the university's irrigation system will be managed remotely. This state-of-the-art central control system will support real-time communication with twenty-seven (27) **ESP-SAT Series Satellite Controllers**. Using this system will provide everything PNU was looking for; 24/7 offsite system monitoring, two-way communication, flow management, leakage detection and zone isolation—all from an interactive screen off-campus.

Keep Maintenance to a Minimum

An on-site **WS-PRO2 Weather Station** will collect weather data from the field, which Rain Bird Central Control will use to automatically regulate irrigation schedules and adjust run times without the need for manual intervention. The landscape irrigation system will also feature (195) **FS Series Flow Sensors** that will constantly monitor for low-flow and excess-flow conditions, ensuring any problems are quickly identified and isolated.



RESULTS:

An Oasis of Learning

With the help of Rain Bird's expert team and advanced technology, PNU's irrigation system can be managed remotely without disrupting campus operations. The combination of flow sensors and Rain Bird Central Control software automates many daily tasks and minimizes required maintenance. In fact, **Princess Nourah Bint Abdulrahman University has the largest ever number of flow sensors operating on a single site!**

