Central Arizona Project (CAP) is Arizona’s single largest supplier of renewable water. The CAP is a 336-mile long system of aqueducts, tunnels, siphons, motors, pumps and pipelines that annually pumps more than 1.5 million acre-feet of water from the Colorado River to central Arizona, including the Phoenix and Tucson metropolitan areas. CAP’s 15 pumping plants lift water nearly 3000 feet in elevation and consume about 3 million megawatt-hours of electricity each year.

CAP provides water for 5 million people—more than 80% of the State’s population—as well as 350,000 acres of irrigated agriculture and 11 Native American tribes.

Highlights of CAP’s Maintenance Excellence Program
- Sustained Maintenance Excellence Program for 13 years
- Company-wide Asset Management Philosophy
- Defined reliability processes, roles, and responsibilities
- Company-wide Asset Management Philosophy
- Dedicated Reliability and Maintenance Engineering functions
- Centralized Planning and Scheduling
- Ongoing RCM analysis and implementation
- Cross-functional/Cross-departmental Partnerships
- Centralized technical and leadership development
- Centralized technical and leadership development
- ADOSH certified (VPP) safety program
- Centralized technical and leadership development

Hardware:
- UE Systems—UE 9000, UE10000
- Olympus 3BL Plus—Ultrasonic Thickness Gauge
- Rockwell XM Modules – Continuous Monitoring
- PMA—MCEMAX
- Fluke Ti-32—Thermal Imager
- Doble—Online System
- Doble—PDS100
- Iris—Partial Discharge
- GE—Online Dissolved Gas Analyzer
- Alber—Cellcorder
- Emerson—Integrated Power Supply System
- Iris—Rotor Flux Monitor
- Kelman—Profile P2
- Adwells—DC HiPot Tester
- Ludeca—Rotalign

Software:
- Infor EAM
- Oracle eBusiness Suite R12
- iHistorian
- AssetCentre-Rockwell Automation
- Spectralyzer 4.2
- DMS 5.3.6
- Olympus—GageView
- EMonitor
- MCEGold
- Smart View
- DTAVeb
- PD Viewer
- GE Perception
- Rotor Flux Pro
- Replay Pro
- DC550
- Agile—Fleet Commander

Best Leadership for Reliability Program