

Travis County, Texas



Project at a Glance

Project Location:

Austin, TX

Project Cost:

\$27,147,357

Annual Savings:

\$2,806,112

Scope of Work:

- LED lighting
- Plumbing upgrades
- Power factor correction
- Grid buyout
- Building Automation Systems
- DX Unitary Replacement
- New water-cooled central plant
- CHW Piping
- Utilizing water re-use for CT and inmate garden

Construction Dates:

June 2019 – Dec 2021

Project Term:

20 years

Project Beginning and End dates:

2018 - 2041



Project Description

Travis County has embarked on a visionary plan to change the outdated and inefficient utility infrastructure of the Travis County Sheriff's Office. Major infrastructure upgrades and deep energy retrofits (including a new central utility plant and building) will significantly reduce operational and maintenance costs while meeting future growth needs as determined in the Master Plan.

The Phase 1 project includes 33 buildings at the Travis County Del Valle Correctional Complex (TCCC) and the Downtown Jail facility, totaling over 800,000 square feet. The project not only reduces electric utility costs by 40% but also replaces major equipment that's at the end-of-useful-life, conserves water resources through a "Water Reuse Plan" (saves 28 mil. gallons/yr.) and provides a significant environmental impact with sustained reductions in harmful emissions to the atmosphere.

Phase 2 of the project will include a microgrid power solution that provides resiliency and a more reliable power supply, independent of the utility grid. The new power infrastructure will fully automate the entire TCCC site and allow continuation of all jail operations even when the utility power source is not available. This solution offers valuable operational flexibility and additional savings. Austin Energy, the municipally-owned utility, incentivizes this solution through the Energy Demand Response Program, to generate an additional revenue stream for Travis County.

Finally, note additional project financial benefits that accrue to Travis County including a healthy return on investment (ROI), an approximate \$4 million positive cash flow and a \$3.7 million net present value (NPV).