## DNV·GL Seeing the Light: Partnering with Local Government to Achieve Significant Savings

Since 2011, the Tucson Electric Power (TEP) Energy Efficiency (EE) team has had a strong partnership with the City of Tucson. The City has taken significant steps to incorporate energy-efficient technologies, which resulted in 18 completed projects that reduced payback periods and realized annual savings of 3.2 GWh.



potential savings of 20 GWh, the TEP team was ready to take on the challenge. To facilitate a project this size, TEP teamed with the City and lighting contractor to develop an efficient process.



When the City decided to replace more than 20,000 streetlight fixtures with LED fixtures, GIS tracking, and location based dimming with a







Real-time installation progress on a contractor--created website. The City and the contractor "batch" completed fixture installations, allowing the City to approve and submit groups of installations as they were completed and accepted.



Reducing the application size allows TEP to process applications more quickly, streamline approvals, and



provide incentive payments to the city promptly. Going forward, the TEP EE team and City of Tucson

will continue to develop the model for cooperative teamwork. Key elements of the model:

- Training for City operations groups in EE program for inclusion in daily processes of business units.
- TEP EE team to stay involved with City on multi-year plan for EE projects.
- Regular meetings to stay apprised of developments/changes.

In addition to weekly status meetings, the team adopted a "pay as you go" process to level out workloads and take advantage of "lessons learned" to provide real time process improvements. This created a win/ win/win scenario for all involved.

Prior to project commencement, the City and contractor provided preliminary fixture and project information that allowed TEP to estimate savings by fixture type and control strategy. Starting the analysis at the beginning of the project instead of at the end streamlined the application review process.