

Attachment #1 - Description and Explanation of Database Systems

- Utility Manager - Utility Manager is a database that all utility data is uploaded to on a monthly basis. The software automatically identifies a variety of billing problems and highlights excessive usage and cost, incorrect meter readings, duplicate bills, while providing numerous reports and assist with forecasting budget needs. This database will serve as the primary tool to inform staff on emerging strengths and weakness of energy consumption on a meter by meter basis. Additionally, Utility Manager will produce summary data points for both Portfolio Manager and CACP, thus dramatically reducing staff resources that would otherwise be necessary for data collection and entry of those tools independently.
- EPA's Portfolio Manager - Portfolio Manager is an interactive energy management tool that tracks and assesses energy and water consumption for many County facilities on an annual basis. The database can help set investment priorities, identify under-performing buildings, and verify efficiency improvements. Once populated with utility data the program accounts for the impact of weather variations as well as changes in key physical and operating characteristics of each building. Each building is rated for energy performance on a scale of 1-100 relative to similar buildings nationwide. Buildings rating 75 or greater will be Energy Star Certified. This database does not calculate GHG.
- Clean Air & Climate Protection (CACP) - As ICLEI's primary tool for local governments to track GHG emissions, the CACP software helps local governments create greenhouse gas inventories, quantify the benefits of reduction measures, and formulate local climate action plans. As with the Portfolio Manager program, data is only updated annually and largely serves as a status report of progress.
- Building Automation System (BAS) - Various County facilities currently benefit from electronic devices designed to monitor and control the mechanical and lighting systems in a building. BAS core functionality keeps the building climate within a specified range, provides lighting based on an occupancy schedule, and monitors system performance and device failures and provides email and/or text notifications to building engineering staff.
- Fuel Management System (FMS) - A passive fuel technology that interfaces directly to a vehicle's on board diagnostic computer. At the time of refueling, the system transmits accurate data on the odometer, chronometer, hour meter readings, length of idle, and the average speed at which the vehicle has been driven since the last fueling. The FMS integrates with the fuel dispensing system to produce detailed reports on numerous aspects of the County fleet.