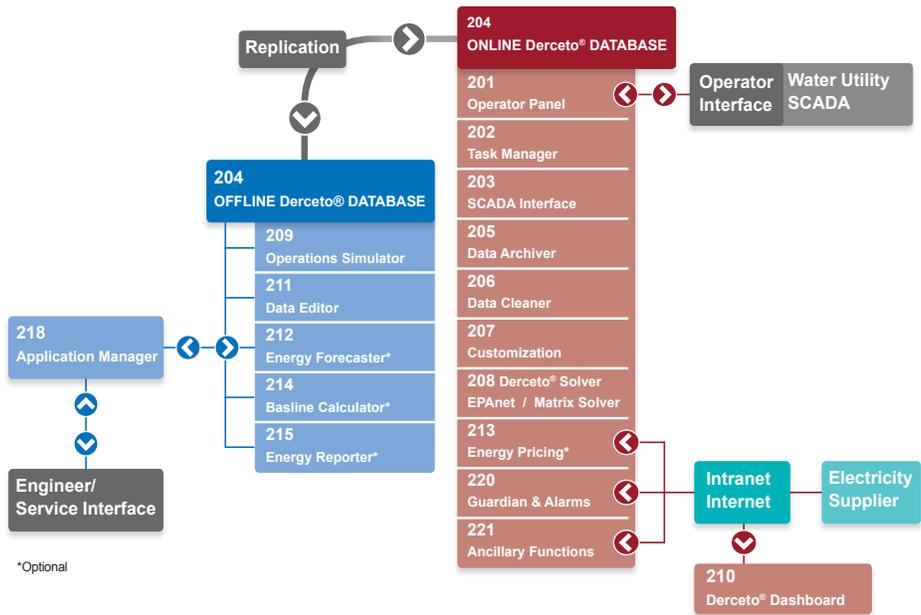


Derceto® Aquadapt™ software's main objective is to minimize costs by choosing the optimal pump schedule solution. Being able to quantify the savings achieved by Aquadapt software would be valuable. Just comparing an electricity bill post Aquadapt system implementation with one prior Aquadapt system is not going to give a proper estimate because it doesn't take into account the varying water demands. However the **Energy Cost Baseline Tool** provides a calculation of likely electric power costs based on water usage under a historical pump operational regime.



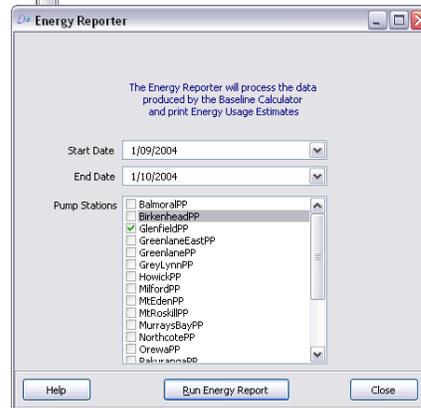
It is made up of two components:

- **Baseline Calculator:** Calculates ½ hourly kWh energy consumption per pumping plant from daily water demand/flow data. The Baseline Calculator runs at the start of each day and analyzes the previous day's 24-hour period of water usage. It calculates the previous day's expected power use in kWh for each pump station.

ELECTRIC ACCOUNT DETAIL
 Transpower
 Pump Station: GlenfieldPP
 Rate Schedule: E20P - TOU Energy & Demand
 From 1/09/2004 to 1/10/2004
 Billing Days: 31
 Baseline Days: 45
 Days with Complete Raw Data: 20.65

Charges		
Electric Charges		66,233.17
Energy Surcharge-S (ES)	801,336.32 kWh @ \$0.01000	8,013.36
ES: Summer: Peak	57,030.39 kWh @ \$0.06179	3,523.91
ES: Summer: Partial-peak	174,124 kWh @ \$0.02397	4,173.74
ES: Summer: Off-peak	570,182.43 kWh @ \$0.02396	13,661.57
Economic Stimulus Rate Credit		-3,461.77
Total Charges		\$92,143.98
Taxes		
Energy Commission Tax	801,336.32 kWh @ \$0.00030	240.40
Total Taxes		\$240.40
Time Of Use Detail		
Season: Summer	Energy	
Peak	57,030 kWh @ \$0.06210	
Partial-Peak	174,124 kWh @ \$0.04821	
Off-Peak	570,182 kWh @ \$0.04637	
Season: Summer	Demand	
Anytime	2,100 kW @ \$2.55	
Peak	1,420 kW @ \$11.75	
Partial-Peak	2,100 kW @ \$2.64	
TOTAL CHARGES		\$92,384.38

- **Energy Reporter.** The Energy Reporter uses the kWh estimated by the Baseline Calculator to produce expected power bills per pump station. Each pump station will be under a specific power tariff and all the cost components will be used to calculate the total bill. These can be compared with the actual power costs incurred under Aquadapt software operation and thus estimate savings.



Creating baseline bills is easy:

Select the billing period and the meter accounts and the **Energy Reporter** produces the expected power bill.

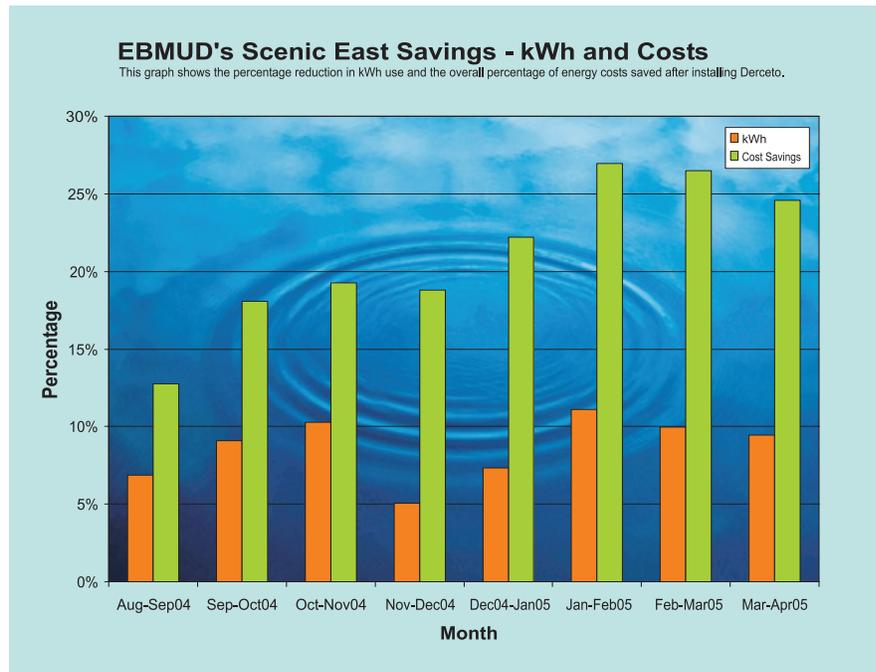
The baseline bill will show the expected costs based on the estimated kWh consumption and the existing tariff structure.

The costs will be broken down into the different components that make up the tariff: energy costs, demand costs, meter charges etc, and will be displayed in a similar way to the actual power bill. This allows for easy comparison between the actual power bill and the baseline one. The kWh usage will be shown for each

the time of use period which is especially useful in order to see how much energy **Aquadapt** software moved from the expensive period to the cheap period.

The bills can be viewed, printed, or saved to PDF for electronic storage.

The **Energy Cost Baseline Tool** is valuable because it uses water demand data to estimate kWh consumption and thus energy costs. The energy bills produced can be easily used to estimate savings achieved by **Aquadapt** software.



Derceto Aquadapt software is the unique real-time, on-line water distribution system optimization package from Derceto, Inc. It schedules pumps, flow control valves and production up to 48 hours in advance. Pump and flow schedules for large distribution systems can be derived in minutes enabling it to operate interactively. Aquadapt software can also be used in real-time energy markets. The Aquadapt system continuously adapts to refine its schedule in real-time in response to changing conditions including demand changes, equipment availability and treatment plant capacity. Aquadapt software also improves water quality by seeking to increase turnover of storage and minimize production flow disturbances. It is backed by an established and fast growing user base and has undergone four major feature upgrades since its inception in 1998. Payback from energy savings is rapid, typically under two years.

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