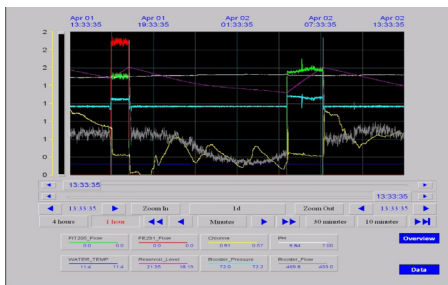
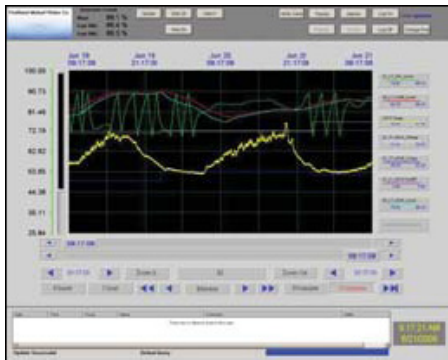
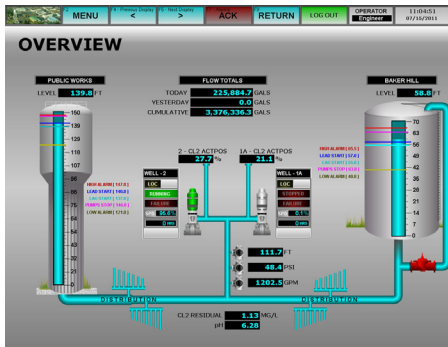


Automated Reporting: Cost of Operating

Parametrix



Your process control system can do more than routine equipment automation. It can also help you make business decisions that can save you money. Parametrix employs its software expertise to help clients transform mundane control system data into valuable business information. Our standard reports, which can also be tailored to your specific business needs, offer detailed business-oriented metrics, such as:

- Dollars per gallon pumped, horsepower per gallon pumped
- Percent total pumped of the annual water rights
- Runtime versus unplanned downtime
- Starts per day and starts per day that affects demand charges

DATE: 6/17/11		DAILY TOTALS						
WELL PUMP	STARTS / DAY	STARTS / DEMAND	RUNTIME MIN/DAY	ESTIMATED KWH	GAL. / DAY	TOTAL PUMPED	LIMIT	
1 (100 HP)	34	6	103.2	128.31	515,500	4,639,500	20,000,000	
2 (40HP)	3	0	6	2.98	12,000	108,000	NA	
3 (60 HP)	31	4	55.6	41.48	278,000	2,502,000	NA	
4 (60 HP)	19	0	85.5	63.78	427,500	3,847,500	10,000,000	
5 (40 HP)	20	0	78.9	39.24	174,500	1,570,500	5,000,000	
6 (100 HP)	43	5	228.98	284.70	1,140,000	10,260,000	16,000,000	
7 (60 HP)	12	0	23.9	29.72	199,500	1,795,500	2,000,000	
8 (40 HP)	9	0	6	2.98	8,000	72,000	NA	

DATE: 6/17/11		ESTIMATED DAILY UTILITY CHARGES				
WELL PUMP	ESTIMATED CHARGES PER KWH	DEMAND CHARGE	GALLONS PUMPED	GAL/\$	STANDBY GEN. MIN.	
1 (100 HP)	\$8.98	\$0.76	515,500	57,393.59	182	
2 (40HP)	\$0.21	\$0.27	12,000	57,449.25	NA	
3 (60 HP)	\$2.90	\$0.49	278,000	95,748.76	195	
4 (60 HP)	\$4.46	\$0.40	427,500	95,748.76	NA	
5 (40 HP)	\$2.75	\$0.27	174,500	63,529.12	NA	
6 (100 HP)	\$19.93	\$0.94	1,140,000	57,203.38	186	
7 (60 HP)	\$2.08	\$0.40	199,500	95,909.00	NA	
8 (40 HP)	\$0.21	\$0.27	8,000	38,299.50	NA	
TOTALS	\$45.33	\$3.81	2,755,000.00	70,160.17		

\$/KWH CHARGE: \$0.07 Per KWH
DEMAND CHARGE: \$9.00
Example cost of operating automated report

We can help convert trend information into a report.

Control System Requirements

- Control system (PLC, DCS, or computer) to electronically monitor the points required for reporting
- Computer to store the data for the report timeframe
- Report writing program to gather the data, perform calculations, and store the report results for retrieval

If your system does not meet these control system requirements, we can help you determine the simplest path forward.

How We Can Help with Your Reporting Requirements

Parametrix offers a full suite of electrical and controls design services for remote control and monitoring of processes such as water reservoirs, booster pump stations, lift stations, wastewater treatment facilities, standby generation, and other industrial facilities. As an integrated part of our client's team, our field services include PLC and HMI design, programming, maintenance, and troubleshooting.

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