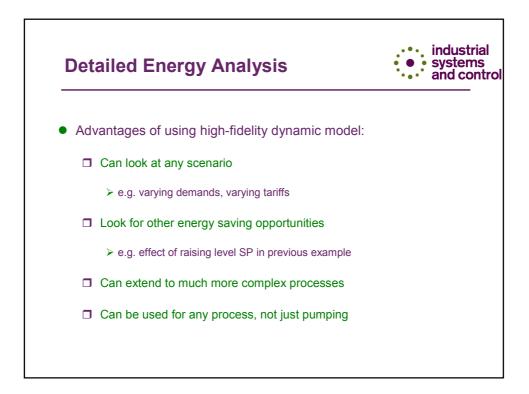
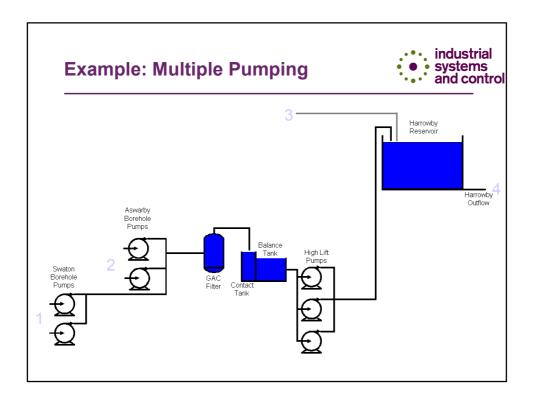


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Level Control Strategy	Model Prediction		Pumping Station Results	
	kWh Supplied (1 hour)	Energy Savings (%)	kWh Supplied (1 hour)	Energy Savings (%)
On-Off control	39.39 kWh		70 kWh	
Single pump VSD	29.2 kWh	25.6%		
Dual pump VSD	13.99 kWh	64.5%	26.5 kWh	62.2%





/hat if?" Scenario	••• inc ••• sy ••• an	
Scenario	24 hr period Total Pump Energy (kWh)	Overall Energy Savin
Current (validation model)	2786	-
Test #1 (BHP onoff, HLP PID)	2799	0.47% (higher)
Test #2 (all PID)	1905	32% (lower)
Test #3 (Asw & HLP PID, Swa off)	1883	32% (lower)
Test #5 (Swa & HLP PID, Asw off)	2197	21% (lower)
Test #6 (Swa & HLP PID, Asw onoff)	2551	8.4% (lower)
Test #7 (Asw & HLP PID, Swa onoff)	2328	16% (lower)
Test #8 (Asw & HLP onoff, Swa off)	2783	0.11% (lower)
Test #9 (BHP PID, HLP onoff)	2049	26% (lower)
Test #4 (bypass GAC plant)	2759	0.97% (lower)

