

US EPA ARCHIVE DOCUMENT



Focus on Municipal Water and Wastewater



NYSERDA Focus SMALL WATER TREATMENT PLANT CHECKLIST

(If any are not applicable, do not provide a response for that particular question)

1. LOW-LIFT PUMPS

- A. Do you have low-lift pumps?
- B. If yes, do you have variable speed control on the pumps?
- C. If yes, are your low-lift pumps equipped with premium efficiency motors?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

Additional comments and information

2. HIGH-LIFT PUMPS

- A. Do you have high-lift pumps?
- B. If yes, do you currently operate your high-lift pumps mainly during off-peak hours?
- C. If yes, do you utilize in-system storage as a way to minimize pumping during peak hours?
- D. If yes, do you have variable speed control on the pumps?
- E. If yes, are your high-lift pumps equipped with premium efficiency motors?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

3. FLOCCULATION/COAGULATION

- A. Do you currently have mixers?
- B. If yes, do you currently have 2-speed motors or VFDs on your mixers?
- C. If yes, are mixers currently equipped with premium efficiency motors?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

4. FILTRATION/ DISSOLVED AIR FLOTATION

- A. Do you have filter backwash pumps?
- B. If yes, do you backwash filters based on filter head loss and/or effluent water quality (i.e., turbidity, particle counts, etc.)
- C. If yes, do you utilize elevated backwash water storage tanks to minimize backwash pumping?
- D. If yes, are your backwash pumps equipped with premium efficiency motors?
- E. Do you use dissolved air flotation for solids separation?
- F. If yes, are there premium efficiency motors installed on the blowers/compressors?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

5. DISINFECTION

- A. Do you currently use an ultraviolet disinfection system?
- B. If yes, does the UV system utilize low-pressure, high-output lamps?
- C. If yes, is system currently operated via flow-pacing and/or dosing setpoint?
- D. Does your plant currently use ozone as a disinfectant?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

6. RESIDUALS MANAGEMENT

- A. Does your plant currently haul residuals to another location for processing?
- B. Are your residuals currently used as part of a beneficial reuse program?
- C. Do you utilize centrifuges for dewatering residuals?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

7. OTHER IMPROVEMENTS

- A. Has your plant undergone any energy improvement projects in the last 5 years?
- B. If yes, has any of these projects involved switching to more efficient lighting?
- C. If yes, has any of these projects involved load shedding and/or off-peak load shifting?
- D. If yes, has any of these projects involved installation of new or improved HVAC equipment?
- E. Is plant or will plant be undergoing capacity expansion and/or any other upgrade projects within next 2 years?
- F. If yes, are energy conservation measures included within the improvements?

Subtotal Grayed

YES	NO
<input type="checkbox"/>	

TOTAL GRAYED

(Attach additional pages for comments as needed)

If more than 5 responses are in the gray areas, the potential for energy savings exist.

Please contact water@nyserdera.org for additional information on available programs for energy conservation at water treatment facilities.