

REINHOLD ENVIRONMENTAL Ltd.



**2018 APC & Wastewater Round Table  
& Expo Presentation**

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# Panel III: Wastewater O&M in a Cycling-Turndown Environment

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A Touchstone Energy Cooperative 

# Introductions



- Name
- Company
- Title
- Years of Experience
- Type/Types of Waste water treatment Equipment that you have or have had experience with.

# Questions

1. Does your utility see different chemistry and WW flows into your WWT equipment at extended lows loads or Cycling? What should we keep an eye on in the incoming Waste Water?

2. What things should we be watching for when our units are at reduced loads that could affect our waste water treatment equipment? Are there are issues that occur with extended low loads?

What are you doing to resolve the issues?

Is it a maintenance issue or an effluent issue?

3. What things should we be watching for when our units are being cycled that could affect our waste water treatment equipment? If there is an issue does it only occur with extended low loads?

What are you doing to resolve the issues?

Is it a maintenance issue or an effluent issue?

# Questions

4. Are you adjusting your WW treatment flows when you are at extended reduced loads? Or cycling of the units?

5. What are your biggest concerns with starting and stopping the WWT equipment?

Increased cost or increased risk of Maintenance?

Meeting limits/effluent?

6. What suggestions would you give someone when designing the WWT equipment in this low load and cycling environment?