

SESSION 3

**Workbook**

**Agenda**

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| **Welcome/Opening**​ |
| **Old Homework Review**​ |
| **​Headworks & Disinfection​** |
| **Break**​ |

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| ​**Primary Solids & Clarification**​ |
| **New Homework Review**​ |
| **Energy & PD Blowers​** |
| **Wrap-up**​ |

# Homework review



 

# Opportunity Brainstorming and Prioritizing

All energy projects can be placed in one of the four quadrants listed below.



**Quick Wins** – Quick and easy opportunities that should be implemented in the short term (~1 to 4 months).

**Gems** – Medium to High energy saving opportunities that the team should prioritize over all others, and complete as soon as possible.

**Strategic** – Opportunities that require additional effort and/or investment and should be considered for future implementation.

**Don’t Do** – Not worth pursuing at this time given the high effort required and low energy savings.

# Notes & Opportunities on Headworks & Disinfection

**Notes & Opportunities on Primary Clarification:**





**PD Blower Energy Example**



**HOMEWORK**

1. **For those of you with Primary Clarifiers perform the following 2 tests:**

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**RESULT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**sBODPI: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**sBODPE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**HOMEWORK**

Think of three motors that are currently operating in your plant that you think you can reduce the runtime on, either through a timer or other automatic control.

List the motor equipment involved & fill in the table in your Workbook:



Now, estimate the energy savings that will occur should you implement this opportunity