



Agenda – Session 6b

Today's Content:

Findings and Group Meeting











Treasure Hunt – Summary

1. Walkthrough the facility and observe operations

2. Identify opportunities

3. Collect relevant data

4. Quantify Savings

5. Document Opportunity

Leverage available Resources





Treasure Hunt - Group Meeting

Meeting Goal: Review opportunities from walkthrough and identify projects to pursue further

List of all opportunities identified and separate them in two categories

- 1. Most promising opportunities identified
 - What additional data is needed to quantify savings
 - Cost and payback of each measure.
 - Make a slide for management presentation
- 2. Additional opportunities that may require large capital expenditures, or opportunities that require more analysis and should be completed later.





Presenting Opportunities - Examples





Reduce Number of Spray Nozzles per Position

It was observed that majority of nozzles spraying water at the end of positions lack contact with the glass

Opportunity:

40 MGY used in forming tunnels (from sub metering) 90% of water used in forming is from nozzle spraying (from water balance)

Water used in nozzles = 36 MGY (90% of 40 MGY)

20% reduction of nozzles can be reduced (1 per position) – by comparing it to industry standards

True cost of water = \$3.5 /kgal

Potential Cost Savings = \$27,527



Automated water nozzles





Low Flow Nozzles for Wash Bay

- The wash bay uses warm pressurized water for cleaning
- The flow through the nozzle is determined to be 3GPM
- Using Low flow nozzles this can be cut down by half

Reduction in Water = 1.06 MGY

Estimated Cost savings = \$12,000

Implementation Cost = \$100

Payback = Immediate









Thank You all for attending today's webinar.

See you all on Wednesday or Friday – July 21st or 23rd – 4 pm ET

If you have specific questions, please stay online and we will try and answer them.

Alternately, you can email questions to me at thirumarank@ornl.gov

