



# Water Conservation at Vicor

# Vicor's Commitment to Our Global Community





# Opportunity –Opportunity- Opportunity

- This is a chance to be Green through your conservation efforts and to generate Green (dollars) for your bottom line.
- Cost Savings and Cost Avoidance should be some of the Bench Marks of any Water Conservation Program.
- Manufacturing Efficiencies can be leveraged to achieve your goals.



# WATER CONSERVATION PROJECTS

- Modify Clean Room Wafer/MLP Saws
- Up-Grade Drinking Water System & Place on PM Program
- Up-Grade DI Water System & Place on PM Program
- Repair & Replacement of Leaking Faucets
- Closed-Loop Water Wash Systems installed in Manufacturing operations



# Modify MLP Saws

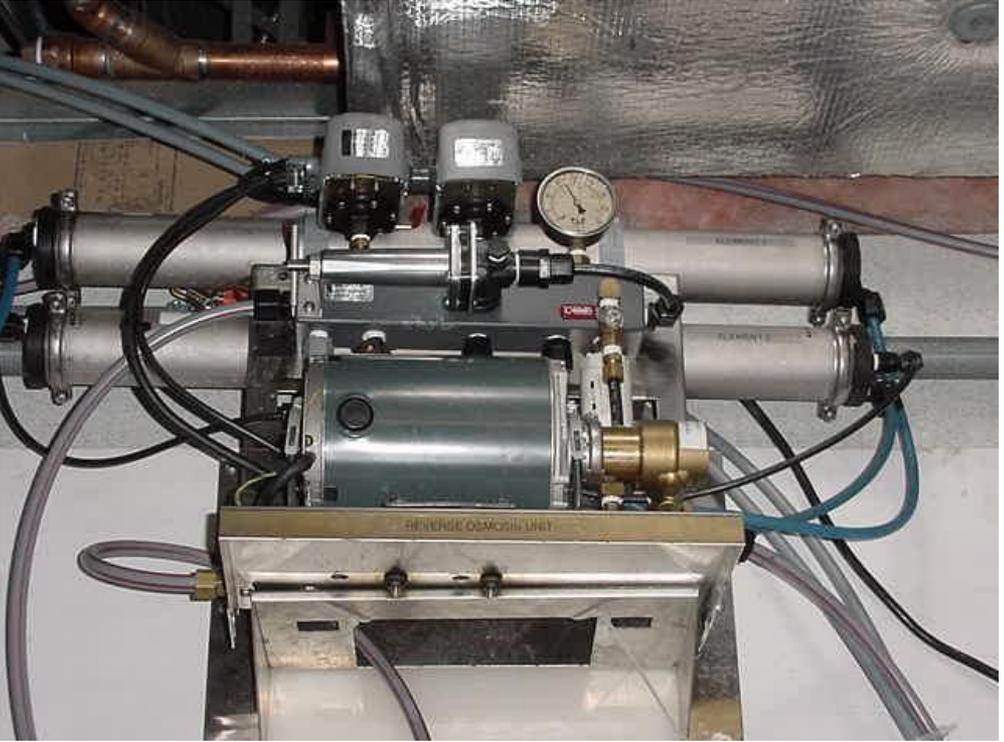




- Original Saws Were on DI Water System for Spindle cooling
- Two Original Saws & New Saw placed on house Chilled Water System for cooling
- New Saw Placed on Closed Loop Recycling System



# Up-Grade Drinking Water System





- New System Placed on Periodic Maintenance Program.
- Monitored for leaks and proper operation



# Up-Grade DI Water System





- New System Placed on Periodic Maintenance Program.
- Monitored for leaks and proper operation



# Repair Leaking Faucets





- Implemented PM Program to Monitor & Repair Any Leaking Faucets.



## Results of Projects

- Annual Water Savings averaged 1,859,533 Gallons per Year Over the Past Three Years
- Estimated Annual Dollars Savings- \$24,359.00
- Overall water use has been reduced by 37%
- Increased DI Water Capacity Available to Manufacturing -- 296,724 gallons per year



# Closed Loop Water Wash System





# Closed Loop Water Wash System

- Installed a Hydrocel Aqueous Cleaner & Closed Loop Recycling System
- The System Served Two Purposes - Removal of Contaminates along with the generation of High Quality DI Water to be used in Cleaning Process.



## Results of Project-Water Wash

- No Hazardous Waste Generated by Process
- No Chemical Used to Clean Product
- No Waste Water Discharge to Sewer System
- Estimated Water Conserved 1,872,000 Gallons per year
- Estimated Annual Dollar Savings - \$24,523.00



# The Cost of Doing Nothing

- Water Conservation-Our Water/Sewer Cost Has Risen From \$6.55 to \$13.10 per 1000 Gallons
- Price Increases Make Past and Present Conservation Projects more Valuable.



# Continuous Improvement

- We feel that these actions are a demonstration of Vicor's ongoing commitment to our employees, customers, and the communities that host our facilities