Incentives to Change
Following the cost of labor, electricity is their largest cost. Operating more efficiently and reliably is a high priority to stay competitive with the rest of the semiconductor manufacturing industry.

Organization
SkyWater is a technology foundry specializing in the development and manufacturing of semiconductor based solutions.

Intern Project
Optimize the energy usage of the air handling, chiller, and related systems. Develop a coil cleaning procedure and schedule for long-lasting change.

Solutions

Clean Heat Transfer Coils:
Clean coils improves air flow and allows for more efficient heat transfer, lower fan speeds, and energy savings.

Remove Charcoal Filters:
Removing charcoal filters will allow air to flow with less restriction, lowering fan speeds, and energy savings.

Reduce Condenser Water Pump Speeds:
Reducing the condenser water pump speed saves energy while maintaining the same cooling capacity.