Kadant’s value proposition
The purpose of a study is to provide a complete assessment of the overall paper machine water system, with the primary focus on showering, filtration, and energy efficiency.

The study identifies opportunities for improvement and provides “specific solutions” that are practical, unbiased recommendations.

These recommendations are detailed to allow the projects to be implemented in a phased approach. Expected benefits for each modification are provided to allow priorities to be established and for project ROI justification.

**Typical Whitewater Filtration System**

![Diagram of typical whitewater filtration system](https://via.placeholder.com/150)
**Water and energy audit scope of work**

- Evaluate water system based on a "Water Scorecard" to benchmark current process strengths and weaknesses
- Quantify major systems water flows using ultrasonic flow meter
- Identify limitations and make process improvement recommendations
- Work with customer to develop ROI calculation
- Measure and benchmark steam flows to paper machine water systems
- Map paper machine showers to include flows, pressures, locations, and other variables.
- Provide recommendations for reducing fresh water and improving shower systems
- Sample and analyze paper machine water streams
- Develop machine flow schematic of whitewater systems
- Provide a qualitative assessment to increase machine runnability
- Provide detailed written report of findings and recommendations

*Thermography showing poor showering and temperature variation on pick-up press fabric.*