

SUSTAINABILITY INITIATIVES



COMMUNITY: At Microbac, we take pride in our commitment to giving back through initiatives like the Microbac Givesbac program, which aims to make a positive impact on society. Through the Givesbac program, we actively engage with our communities to support various causes and organizations.



RECYCLING AND WASTE REDUCTION: A key aspect of our environmental efforts involves minimizing waste through innovative practices like “microscaling,” which involves reducing sampling requirements and the amount of sampling media used. By implementing microscaling, we not only decrease our environmental footprint but also conserve valuable resources such as solvents, supplies, and energy.



RESOURCE MANAGEMENT: Our approach to resource management focuses on streamlining and standardizing processes across our laboratories to optimize resource utilization throughout the business cycle. By minimizing resource consumption, we ensure that our business objectives are achieved in the most efficient and cost-effective manner possible.



PURCHASING: Sustainability is a core consideration in our purchasing decisions. We work closely with corporate purchasing agents to source sustainable products and give preference to suppliers with their own sustainability programs. This ensures that the products we use align with our environmental values.



“GREEN” CHEMISTRY: As a testing laboratory, we are committed to reducing the use of hazardous chemicals in our processes. Through continuous process improvements and collaboration with regulatory bodies, we strive to adopt environmentally friendly alternatives wherever possible. Additionally, we prioritize the recycling of hazardous chemicals to minimize environmental impact.



WATER: We have implemented environmentally sustainable alternatives for cooling requirements in our analytical methods, reducing reliance on continuous water coolers. By investing in advanced technologies that require less or no cooling, we contribute to water conservation efforts while maintaining operational efficiency.



PLUG LOAD: To minimize energy consumption, we invest in technologies that operate on significantly less energy to run specific tests. Additionally, we are transitioning to energy-efficient LED lighting, implementing building energy plans, and optimizing equipment usage to reduce plug load and overall energy usage.



FUME HOODS: Fume hoods play a critical role in ensuring the safety of our employees during laboratory activities. We maintain these hoods to professional standards to maximize efficiency and safety. Additionally, we adjust the hood sashes for optimal protection, contributing to a safe working environment.



COLD STORAGE: Given the high demand for cold storage in our operations, we prioritize energy efficiency by maintaining these facilities at the lowest acceptable settings. Electronic monitoring helps us track performance and ensure optimal operation, further minimizing energy consumption.



LARGE EQUIPMENT: Our courier fleet consists of high-efficiency vehicles, and we continuously monitor route efficiency to minimize unnecessary mileage. We also utilize commercial couriers when more efficient and actively upgrade building infrastructure for energy efficiency.



INFRASTRUCTURE ENERGY: In line with our commitment to energy conservation, we actively monitor and upgrade building infrastructure, including HVAC systems, blower motors, and heaters. By utilizing the latest energy-efficient equipment, we reduce energy consumption while maintaining service quality.



FIELD WORK: Energy-saving measures are integrated into our field sampling operations. We optimize sampling events, utilize remote multi-day samplers, and combine courier routes to minimize vehicle usage and travel expenses, demonstrating our commitment to sustainability throughout our operations.



TRAVEL: We approach travel with a focus on sustainability, prioritizing essential trips and encouraging the use of green transportation options such as trains and buses. Additionally, we support local businesses to reduce transportation emissions associated with chain establishments, further aligning our travel practices with our environmental values.