



Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

K&L Microwave Inc.



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RF and Microwave Filters and Integrated Assemblies

Member since June 2018

Management and Leadership



Environmental Policy Statement

K&L Microwave's Environmental Policy, R I C C A, Reduce-Improve-Conserve-Comply-Apply, is known by all employees and provided as a wallet card. Employees understand how their work is connected to the Policy.

R I C C A

REDUCE waste and prevent pollution

IMPROVE our processes continually

CONSERVE resources

COMPLY with environmental rules, regulations and policies

APPLY the environmental policy in your daily operations



Environmental Team

K & L Microwave's Environmental Management System (EMS) Team includes representatives from key areas of the company including production, plating shop, machine shop, shipping/receiving, PCB fabrication shop, facilities, human resources, quality, engineering, and administration. The team members include representatives from top management, supervision, and operations. The team meets monthly to identify opportunities, methods, and resources for continued improvement; to track progress on environmental objectives; to ensure

integration of EMS goals and activities throughout the company; and, to recognize and support achievement.

Independently-Audited Environmental Management System

K & L Microwave's Environmental Management System (EMS) conforms to ISO 14001. The company was certified from March 2003 to February 2018 and did not reapply for certification this year, having established in-house capabilities to monitor and maintain its mature, compliant system. K&L plans to engage an independent auditor this year to ensure continued conformance.

Waste

Solid Waste Reduction and Reuse

K&L has implemented a sustainability program to reuse coolant in the machine shop to reduce cost and reduce the amount of used coolant hauled off as waste. To date, K & L Microwave has sustained a 20% reduction in the amount of coolant disposed of and purchased.

Recycling

K&L has implemented a sustainability program to recycle brass and aluminum scrap metal from the machine shop. K&L has recycled an average of 91K pounds per year of scrap brass and aluminum between 2011 and 2017.

Hazardous Waste/Toxic Use Reduction

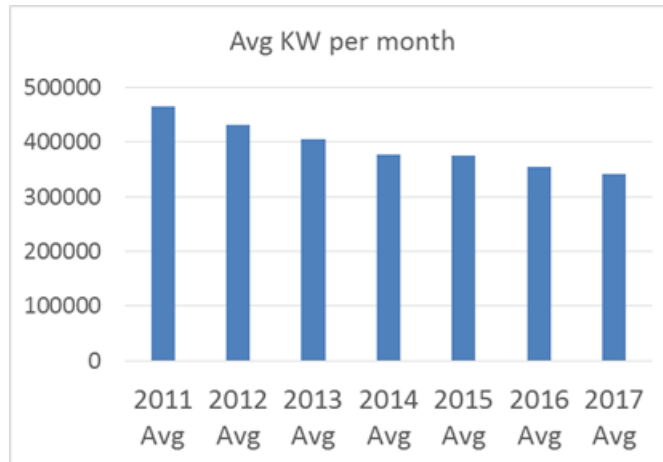
K & L Microwave has implemented a new program to replace the current solvent in the vapor degreasers (Lenium containing n-propyl bromide) with a new solvent (Novec 73DE containing trans-dichloroethylene). N-propyl bromide is on the ECHA (European Chemical Agency) Candidate List of SVHC (Substances of Very High Concern) because of the chemical's risk to humans, while trans-dichloroethylene has significantly better human health and environmental properties. The changeover is schedule to be completed by end of 2018.

Energy

Energy Efficiency

K & L Microwave has implemented a multi-year program to replace or retrofit temperature shock/cycle chambers to transition from "bad" refrigerant to eco-friendly refrigerant. To date, 12 of 23 (52%) of the chambers have been replaced or retrofitted with eco-friendly refrigerant.

K & L Microwave has undertaken a multi-year program to replace mercury-containing fluorescent bulbs. Initially, the company replaced all overhead mercury bulbs with no-mercury fluorescent bulbs. Next, all fluorescent bulbs were replaced with LED bulbs, including in parking lots. The chart below reflects electricity saved from the company's various energy saving projects, including the change to LED lighting throughout K & L Microwave's three facilities. Energy usage decreased 36.4% from 2011 through 2017.



Energy analysis and studies conducted with the assistance and guidance of the Regional Manufacturing Institute of Maryland's Energy Program have resulted in repair of 30 compressed air system air leaks and planned projects to replace HVAC units and building roofs with a white roof to reduce solar heat gain. Additional projects to upgrade air compressors, lighting and controls are being investigated.

Environmental Certification Programs, Awards, and Other Activities

- K&L Microwave received an EPA award in 2006 under the National Partnership for Environmental Priorities (NPEP) for completing a chemical reduction goal. K&L voluntarily reduced the amount of lead (Pb) used in our products and processes to less than 100 pounds per year, and has continued to maintain that low level of use from 2006 through the present.*



Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.

Learn more at green.maryland.gov

