

BORGWARNER MORSE SYSTEMS

DEVELOPMENT OF ENVIRONMENTAL SUSTAINABILITY AND WASTE REDUCTION AND REUSE FRAMEWORK FOR BORGWARNER MORSE SYSTEMS

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BorgWarner is a leading global OEM that specializes in engine and emissions components development and production. Morse Systems is a division specializing in engine and timing chain products.

The Tauber team was tasked with developing a strategy to address rising costs of industrial waste treatment and disposal at the Ithaca Transmission Components plant. The goal of the project was to investigate alternative waste solutions that would be economically and strategically advantageous for the Ithaca plant. These solutions would reduce cost incurred from disposing industrial wastes, anticipate regulatory changes around waste disposal, and extend BorgWarner's philosophy of creating a "Clean Driving Experience" into its production operations.

We developed a set of recommended KPIs and tactics for developing and implementing strategic targets along a sustainability continuum for BMWS Ithaca. To begin implementation of this strategy, we identified and piloted or modeled several waste management solutions which included reducing the amount of hazardous waste produced, identifying resale opportunities for previously non-saleable waste, competitively sourcing waste handling services, and tweaking internal processes to realize cost savings.

Overall, the planned and implemented changes are estimated to reduce hazardous waste generation by 49% across the Transmission Component plants in Ithaca over the next year. By continuing to implement the developed strategy, we estimate that BWMS Ithaca could realize a total annual cost savings of up to 43.5% for the identified industrial waste streams.