

EH&S Management Systems

Client Centered

TLI Solutions Inc.'s (a TechLaw Company) success is based on identifying, prioritizing, and developing the systems to address the Environmental Health and Safety issues and opportunities of individual clients. While lessons learned in other engagements can assist clients, we remember that Environmental Health and Safety management systems are not a *one size fits all*.

TLI Solutions, Inc. (TLI) guides and supports client efforts to implement management systems that:

- Ensure compliance
- Enhance business and environmental performance
- Pursue sustainability initiatives

TLI Experience

TLI clients include manufacturing and chemical process firms (several with international parents); federal, state, and local governments; and, national trade associations. Our key personnel offer several decades of technical and management expertise.

We have assisted clients in obtaining and maintaining ISO 14001 certification for their management systems. We have led client actions to implement Environmental Health and Safety EH&S management systems that address the requirements and templates of associations and corporate parents, and of governmental entities (e.g., Executive Order 13423 and Consent Agreements).

Proven Tools

TLI has developed a variety of tools to maximize the effectiveness, quality, and efficiency of our EH&S management systems endeavors. These tools, as follows, include spreadsheets, checklists, and instructions:

- ISO 14001 ToolKit[®] - to facilitate the attainment and maintenance of ISO 14001 certification
- Stages of Excellence[®] - to help clients move from a compliance-oriented reactive *posture* to that of a

world class organization

- Handbooks - to guide client groups in EH&S management system efforts

TLI Project Examples

Manufacturer

TLI worked with the \$3B division of a Japanese automotive parts manufacturer to implement ISO 14001 throughout its North American operations. The division's 13 autonomous operating companies included a complex, diverse array of operations, including manufacturing, assembly, Research and Development (R&D), sales, and joint ventures.

TLI worked closely with a multi-facility client team to develop a *system-consistent EMS* that enabled individual facilities to integrate environmental procedures with existing, facility-specific business processes (production planning, training, etc.) and QS 9000 practices, and to implement the standard within nine months. The innovative approach also resulted in estimated savings of over \$1M in development, implementation, and certification costs.

State Transportation Agency

TLI guided and facilitated the efforts of Pennsylvania Department of Transportation (DOT) to develop and implement its Systems Engineering Management Plan (SEMP) at both the Headquarters and District level. As a direct result of TLI's support, four Engineering Districts were able to obtain and maintain ISO 14001 certification for their operations and

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concluded

maintenance activities and facilities. These Districts, which covered 18 counties with more than 1,500 maintenance employees, were the first state transportation agency units to obtain this certification in the U.S.

Federal Agency

TLI recently won an engagement with an office of the Dept. of Homeland Security to fulfill the environmental management system and sustainability goals of Executive Order 13423. The management system also addresses Employee Occupational Safety and Health. Sustainability goals address performance in the following areas:

- Renewable energy
- Toxins reduction
- Recycling
- Electronics stewardship
- Energy efficiency
- Environmentally friendly acquisition
- Water conservation
- Sustainable buildings
- Renewable fuels
- Transportation fleet management

Electric Utility

In response to a multimillion dollar consent order, a \$6B, 15,000-employee client adopted TLI's Stages of Excellence to integrate environmental management across all of its corporate and line operations and facilities.

Within 18 months of embarking upon our program, the company has seen environmental violations drop 59%, water exceedances 37%, and air exceedances 52%. The company anticipates saving tens of millions of dollars from various new EH&S

management processes we helped to design, and reports dramatic improvement in the coordination and management of environmental issues at every level of the organization.

Municipal Government

TLI is guiding the environmental management system development and implementation efforts of the City of Rockville. The first tasks were aimed at developing a strategy and plans to ensure compliance and identify environmental stewardship opportunities. On current and upcoming tasks, TLI is guiding implementation of the plans.

Trade Association

TLI provides ongoing assistance for efforts of the American Association of State Highway and Transportation Officials to promote and support the implementation of environmental management systems among state DOTs. Key goals of these efforts include the following:

- Promote environmental stewardship
- Provide guidance in the development and implementation of programs to practice environmental stewardship
- Use these programs (and the workforce, facility, and project accomplishments that result from these program) to streamline environmental review and approval processes

Support efforts include the following:

- Performance of several gap analyses
- Provision of on-site guidance for several DOTs to identify environmental management system opportunities and develop plans to meet these opportunities
- Preparation of Practitioner's Handbook No. 8 titled Developing and Implementing an Environmental Management System in a State DOT
- Presentation and development of training programs

