



# Suppliers Partnership for the Environment (SP)

Energy Workgroup

Co-Chairs:

Mark Werthman (Chrysler Group, LLC)

Rahul Naik (ARCADIS)



# Contents

- Mission Statement
- What is an Energy Management System and The ISO 50001 Standard
- Benefits of ISO 50001
- Commonalities between ISO 14001 and ISO 50001
- Next Steps

# Mission Statement

- Sponsor and support ongoing collection and dissemination of information, discussions and action between automobile OEMs, their suppliers and government entities, on energy and water issues affecting the operations of companies in the automobile supply chain.

# Energy Management System (ISO 50001)

- ISO 50001 – Energy Management System Standard launched in June 2011
- ISO Standard to be used for developing, implementing and maintaining a robust energy program
- The standard is applicable for all types and sizes of organizations and can be integrated with existing systems, such as ISO 9001 and ISO 14001.

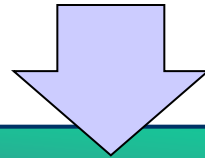
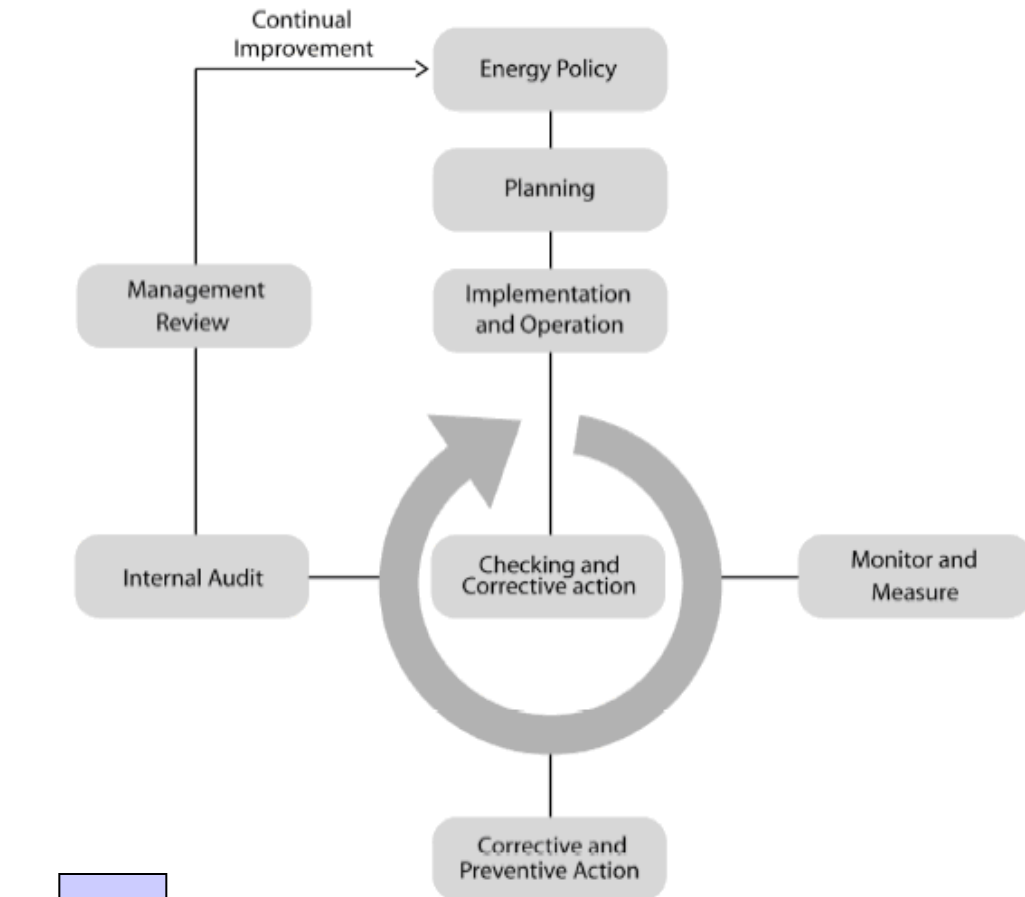
# What Is an Energy Management Systems (EnMS)?

- **Objectives:**

- Measure & baseline
- Monitor & plan
- Continually improve energy efficiency

- **Main criteria:**

- Management System Approach
- Requirement for a corporate policy to manage energy efficiency
  - PDCA and continuous improvement
  - Similar structure as ISO 14001 (different requirements)
- Integration with QSE
  - Works as the “Energy module” of current management systems



Energy is considered one of the key corporate metrics

# Benefits of ISO 50001

- **Systematic framework for continuous improvement**
  - ISO 50001 energy management in line with other management system standards to continual improvement
  - Tools and resources to assist implementation and validation of energy performance improvements
- **Risk Management**
  - Preemptively manage risk presented by carbon footprint
- **Communication and Recognition**
  - Industry: increased awareness to reduce energy, acknowledging successes as a team and key pillar of sustainability within a company
  - Public: Recognized leader in sustainable use of energy resources (local and financial community)
  - Supply chain: Customers want responsible energy management from suppliers.
  - Shareholders: Provides a verified improvement in energy performance from a neutral third party.

# Commonalities between ISO 14001 and ISO 50001

| ISO 14001   | ISO 50001                                      |
|---|--|
| <b>DOCUMENTATION</b>  |  |
| Scope   | Scope  |
|   | <i>Energy baseline</i>                         |
| Environmental Key Performance Indicators (KPI)                    | <i>Energy KPI</i>                              |
| Environmental Policy  | <i>Energy Policy</i>                           |
| Environmental Goals & Targets                                     | <i>Energy Goals &amp; Targets</i>              |
| Environmental Manual  | Energy Manual                                  |
| Document Control System (Procedures, Work Instructions and Forms) | Document Control System                        |
| Record Control System   | Record Control System                          |
| <b>MANAGEMENT</b>   |  |
| Environmental management representative                           | <i>Energy management representative</i>        |
| Environmental management team                                     | <i>Energy management team</i>                  |
| <b>MANAGEMENT PLANNING</b>  |  |
| Environmental data management                                     | <i>Energy data management</i>                  |
| Environmental impact profile                                      | <i>Energy Profile</i>                          |
| Legal & Other Requirements  | Legal & Other Requirements                     |
| Environmental Goals, Targets, Project Planning                    | <i>Energy Goals, Targets, Project Planning</i> |
| <b>OPERATIONS</b>   |  |
| Materials/Equipment Purchasing                                    | <i>Energy Purchasing</i>                       |
| Systems design & selection  | <i>Energy Systems design &amp; selection</i>   |
| Systems & Process Control   | Systems & Process Control                      |
| Project implementation  | Project Implementation                         |
| Communications, training, awareness                               | Communications, training, awareness            |
| <b>EVALUATION &amp; REVIEW</b>                                    |  |
| Monitoring  | <i>Monitoring</i>                              |
| Internal audits   | Internal audits                                |
| Corrective & preventive action                                    | Corrective & preventive action                 |
| Management reviews  | Management reviews                             |

Legend

• *New for ISO 50001*

# Next Steps for the Workgroup

- Discuss the value add for sustained energy improvements using a systems approach
- Provide a survey to determine if development of tools and templates for the membership is value added
- Identify organizations for implementing a pilot program