

Environmental Management Systems

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**Birmingham Health Safety & Environment
Association**

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Making sense of our low carbon future



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Who are we:

- Small, not-for-profit sustainability consultancy based in Exeter
- Long track record of assisting SME's
- Key services include; Carbon Utilities Tracking systems, Greening Supply Chains, Sustainable Construction, EMS and QEMS.
- Out-sourced Environmental Management Service.
- Research and strategy work



Content

- What is an environmental management system (EMS)?
- What are the drivers?
- What is involved?
- What the costs and benefits?
- Q&A



What is an Environmental Management System?

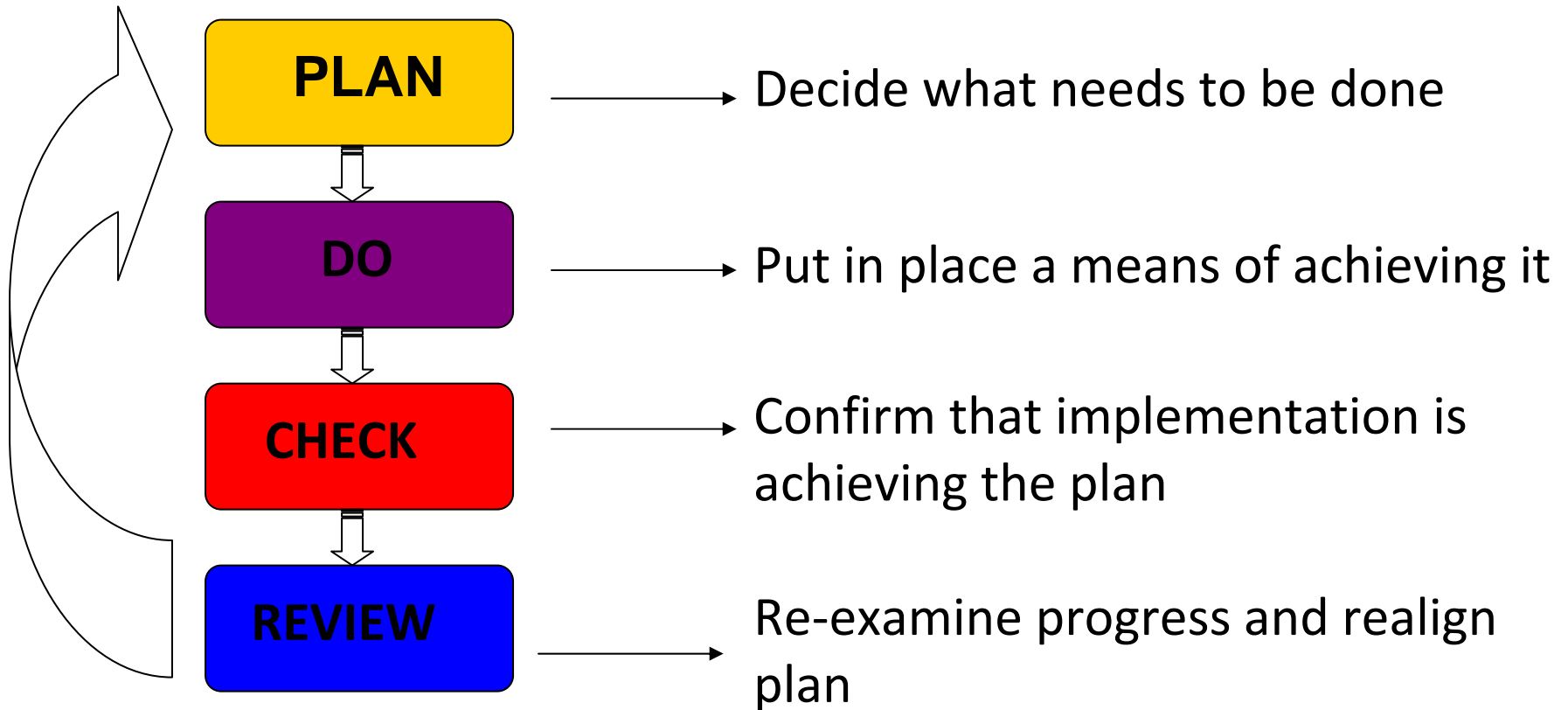
- A toolkit of measures to identify environmental risks and manage them
- Requires as a minimum:
 1. Prevention of Pollution
 2. Legal Compliance
 3. Continual Improvement



What are Environmental Aspects/Impacts?

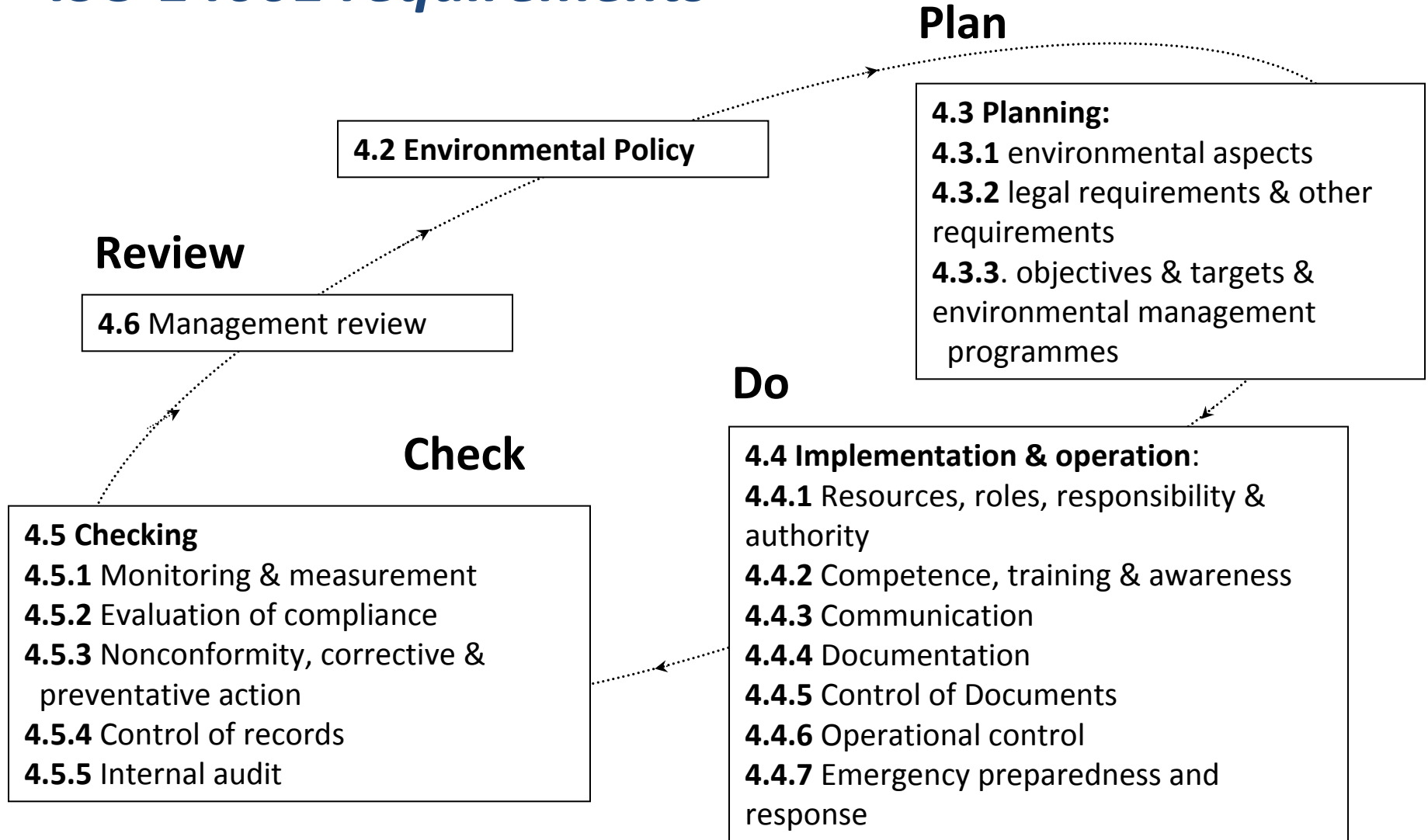
- **Environmental Aspects-** elements of an organisation's activities, products or services which can interact with the environment
- **Environmental Impacts-** a change to the environment (positive/negative, natural/anthropogenic) resulting from an organisation's activities, products or services
- In other words: Cause (Environmental Aspect) → Effect (Environmental Impact)

A model for Continual Improvement



Cycle of Continual Improvement

- ISO 14001 requirements



EMS Standards



EMAS – EU standard, is considered the “premier” EMS



ISO 14001 – The International Standard for EMS

ISO 14001



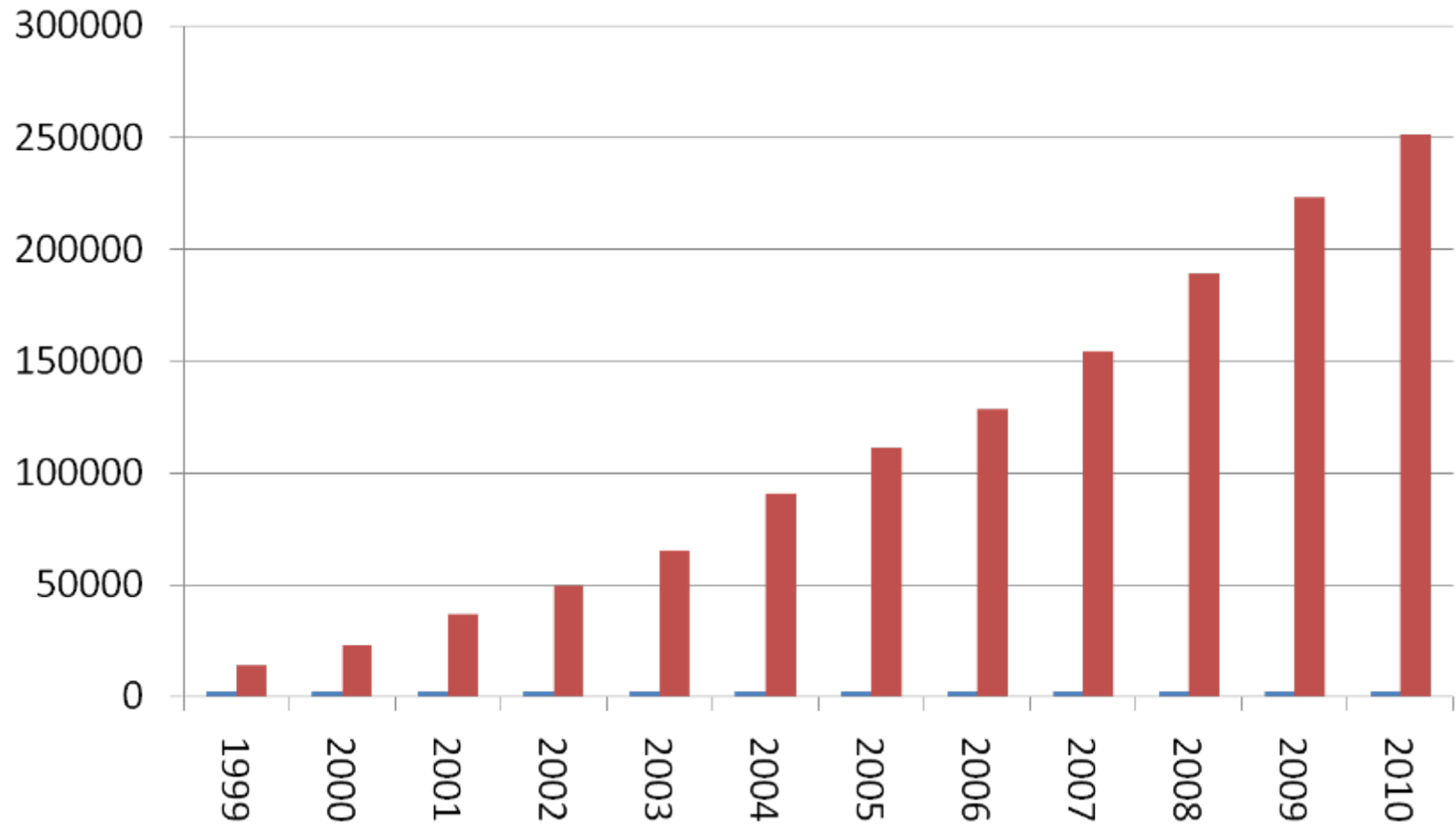
BS 8555 – A six stage stepped approach to achieve ISO 14001

BS 8555





Growth of ISO 14001 certifications worldwide



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The Drivers

- Improve efficiency and performance – cost savings, employee engagement
- Legal Compliance - reduces legislative risk & exposure
- Demonstrates environmental credentials & CSR - can improve the image that a company projects
- Supply Chain Pressure - can open up markets and opportunities
- Can dovetail with existing systems e.g. QMS - actively aids in the development of a company

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The benefits?

- Cost savings-utilities, materials
- Legal compliance-reduced risk
- Public image-enhances reputation
- Company development-professional and organised
- Maintain or increase turnover- keep or win new business

The Costs

- Implementation time-depends on size and business type, typically
- Consultant fees-£200-£600/day
- Certification fees- depends on size and business type and certification body, typically £400-600/day
- System operation time-

Our approach to helping companies

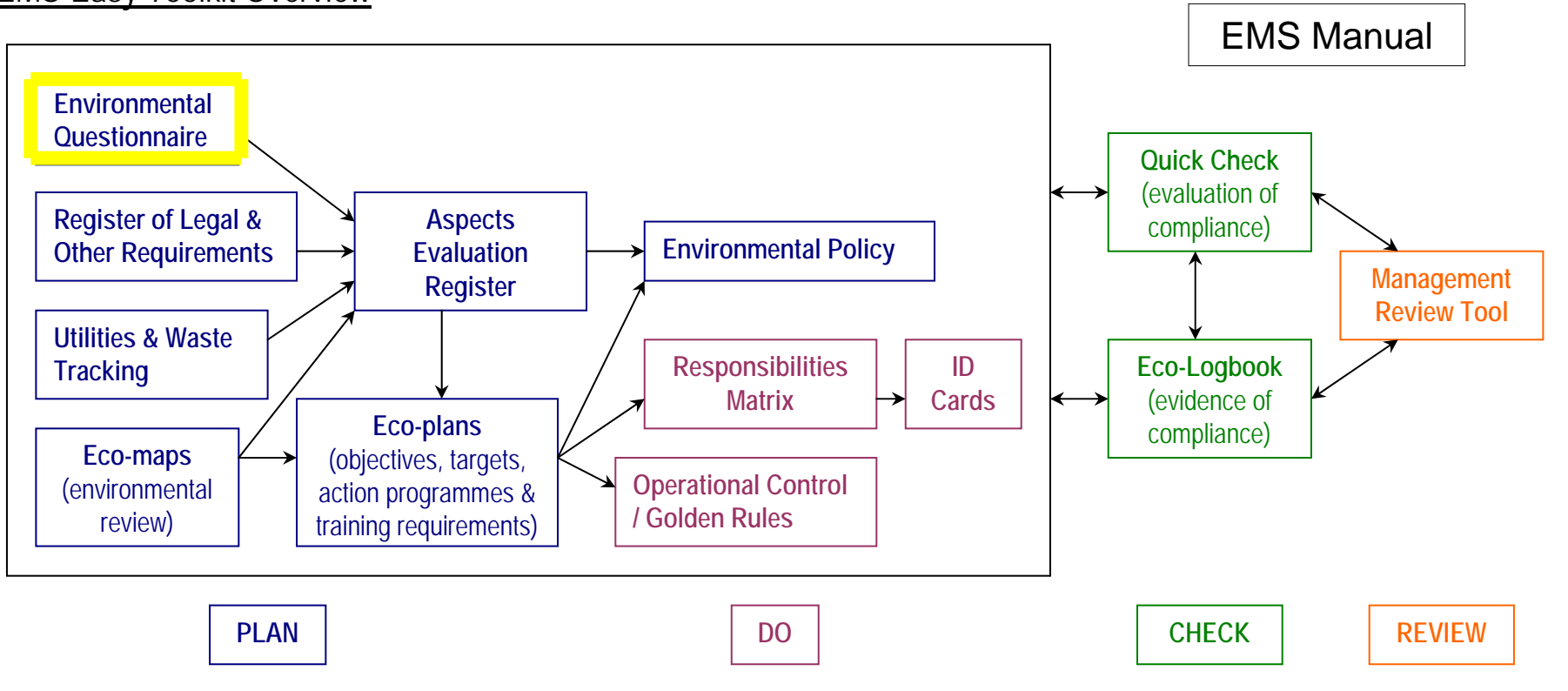
- EMS Easy

- Light on documentation
- User friendly – learn by doing
- Visual and engaging
- Staff involvement and motivation
- Company ownership
- Looks at existing practice
- Above all, keep it simple!



EMS Easy Toolkit

EMS Easy Toolkit Overview



Case Studies

baileypartnership

CONSTRUCTION AND PROPERTY CONSULTANTS

- Traditional Partnership – 4 Equity Partners



- 4 Offices: Plymouth, Exeter, Bristol Sevenoaks
 - 60 Staff: Building Surveyors, Quantity Surveyors, Building Services Engineers, Project Managers, Safety Co-ordinators, Architects and Interior Designers.
-

The Route To Environmental Accreditation

- Feb 2005 – Dec 2009: Working towards BS8555 – Phase 2 of 6 reached.
- 25 Nov 2009: EMS Easy / Exeter City Council Green Accord Workshop.
- January 2010: Decision to proceed.
- February 2010: Green Accord Accredited
- Mar 2010: Commenced on EMS Easy Programme.
- **Feb 2011: BS EN ISO 14001 Accreditation**

The Resources

- Feb 2005 – Dec 2009: BS8555 (2 of 6) - 240 Hrs.
(Senior Environmental Professional)
 - February 2010: Green Accord - 20 Hrs.
(Manager & Technician)
 - Mar 2010 – Dec 2010: EMS Easy – 190 Hrs.
(Manager & 2 Professionals)
 - **1 Year operation - 70 Hrs**
-

The Keys To Success

- Total corporate commitment.
 - A committed implementation team.
 - Senior Management Leadership & Drive.
 - Time Management – Breakfast Meetings.
 - Vision – make it your system.
-

The Prizes

- New Business – Marketing, Tender Scores.
- Improved Cost Management – Measurement Tools.
 - Travel: +10% pa /£Turnover (Recession driven?)
 - Water: Leakage Identified
 - Recycling: improved by 50%
- Reduced Costs.
 - Energy: 20% reduction in electricity
 - Purchasing: 40% reduction in paper / £Turnover



LINE-X Organisation

Limited Company

- 2 directors who are also the shareholders
- 3 staff
- 1 office/warehouse in Barnstaple
- 15 dealers in UK, 17 dealers in Poland, 9 OEM's

Services and Products

- Master Distributor LINE-X products for UK, Ireland and Poland
- European warehouse distributor
- Spray applied protective coating from pick up's to reservoirs'
- Blast mitigation/Spall Liner coating



Why ISO14001?

- Customer requirements partially the military, councils and major building contractors
- Company image and competitive advantage
- Integrate environmental protection and compliance assurance (ISO 9001 certified October 2006) into everyday operations
- Employees awareness of environmental issues and their responsibility



How we did it

- Attended Zero2050 workshops x 4
- Support with Zero 2050 consultants
- Time
 - Commenced July 2008
 - Pre-certification January 2009
 - Obtained Certification March 2009
- Initial assessment = 10 days. Annual hours to collect data, internal audits, maintain records, external audit = 5 days
- Now combined with ISO9001 reduce costs by £735 p/a

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The key to success?

- Nominated overseer
- Strong backup support by Zero2050
- Time management
- Engage the employees
- Positive attitude



What have the benefits been

- Enhances the reputation of the company
- Qualified to be able to bid for tenders
- Approved suppliers with the Utility Companies
- Reduction in utility cost
- Increased awareness by staff to wastage of resources and environmental issues





Specialist Joinery Group

- Fast growing joinery manufacturer and fitter
- Certified to ISO 14001 in 5 months using EMS Easy
- Now eligible for public sector contracts
- 66% reduction in waste to landfill
- Reduced risk of pollution incidents
- Compliant with PPC regulations with a 50% solvent reduction plan
- Factory ext subject to sustainable construction criteria
- Certified to use FSC timber in installations



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