

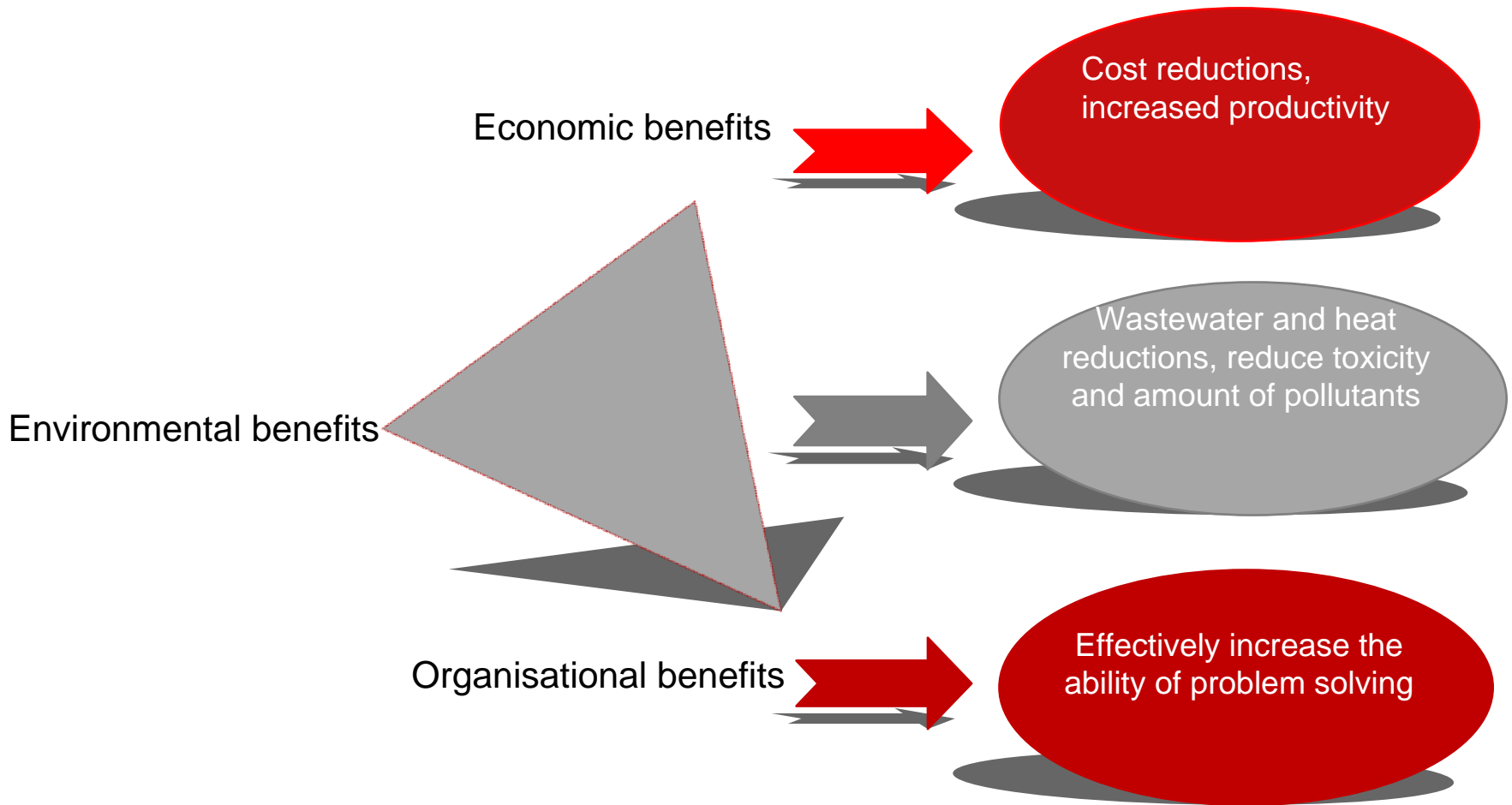


Environment-oriented Cost Management

Success Stories in China



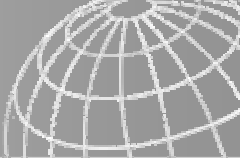
Environment-oriented Cost Management Concept: Triple-Win





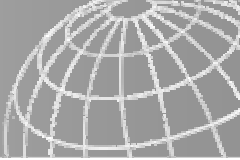
Capacity Building

Year	2004, 2005, 2006, 2007
Participating Consultancy Firms	15
Qualified Local Trainer Level one (LT1)	3
Qualified Local Trainer Level two (LT2)	5
Qualified Local Consultants (LC)	23
Pilot enterprises staff	50



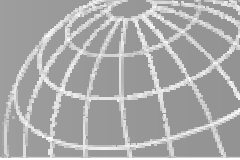
Triple-Win in 23 Enterprises

Economic benefits		Environmental benefits (average reduction)		Organisational benefits
Total investments	RMB 56 million	Electricity	6.4%	<ul style="list-style-type: none"> ■ Raised cost savings awareness ■ Improved internal communication and management system ■ Integration of EoCM into the company structure ■ Sustainable implementation
Total savings	RMB 80.7 million	Wastewater	18.8%	
Average cost reduction	3.8%	Waste gas	5.2%	
		Solid waste	14.6%	



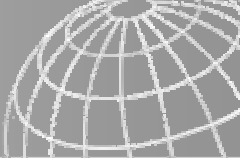
Case study in Fur Garment Industry

- **Example 1: Technical change on rollers**
- **Measure:** Encasing of rollers in the saw dust rotation process. This measure increased the efficiency of the saw dust treatment process and significantly reduced the air pollution caused by the saw dust
- **Investment:** RMB 22,000
- **Cost savings:** RMB 68,000
- **Investment payback period:** 4 months



Case study in Fur Garment Industry

- **Example 2: Reuse waste heat in the washing process**
- **Measure:** Installed a heat exchanger and a cooling tower next to the washing process. Waste heat was used and energy was saved.
- **Investment:** RMB 100,000
- **Cost savings:** RMB 1,590,000
- **Investment payback period:** 0.8 months



Case study in Printing & Dyeing Industry

- **Example 1: Use energy saving lamps**
- **Measure:** In total, 80 lamps in the bicycle shed were replaced with energy-saving lamps. Electricity consumption was reduced.
- **Investment:** RMB 1,500
- **Cost savings:** RMB 12,300
- **Investment payback period:** 1.5 months



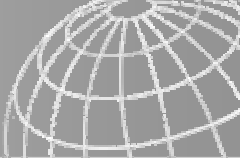
Case study in Printing & Dyeing Industry

- **Example 2: Install equipment for alkali recovering**
- **Measure:** Added one KZ-216 dilatation evaporator to recover alkali from the mercerization process. 60% alkali was recovered, which reduced costs and improved environmental performance.
- **Investment:** RMB 500,000
- **Cost savings:** RMB 272,000
- **Investment payback period:** 22 months



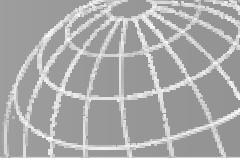
Case study in Chemical Industry

- **Example 1: Improvement of steam efficiency**
- **Measure:** the valves in the steam pipelines were changed to energy-saving valves; pressure in the steam pipes was adjusted to reduce steam waste.
- **Investment:** RMB 22,000
- **Cost savings:** RMB 258,000
- **Investment payback period:** < 1 month



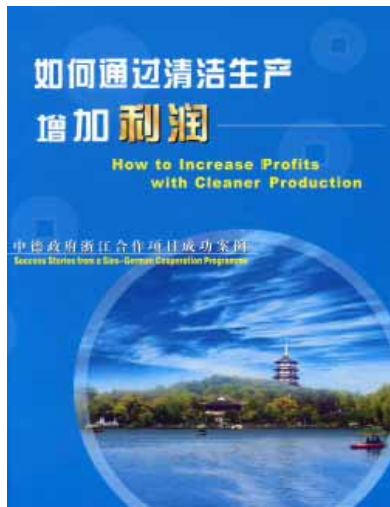
Case study in Printing & Dyeing Industry

- **Example 2: Construction of NaOH recycling plant**
- **Measure:** New collecting equipment was installed so that the residual alkali from the production process can be collected, stored and reused.
- **Investment:** RMB 550,000
- **Cost savings:** RMB 1,261,584
- **Investment payback period:** 5 months



Information Dissemination

▶▶ Systematic publication



2004 Programme



Impact monitoring



2005 Programme



EoCM Flyer