

## SASKTEL ECO-INDUSTRIAL AUDIT™

ECO-INDUSTRIAL AUDIT™ & ECO-EFFICIENCY STUDIES

REGINA, SASKATCHEWAN, CANADA

### Project Goal

Eco-Industrial Solutions Ltd completed an Eco-Industrial Audit™ at the SaskTel Longman Warehouse facility in Ross Industrial Park, Regina. The Eco-Industrial Audit™ identified eco-industrial networking (EIN) and eco-efficiency opportunities for improving resource efficiency, reducing environmental impact, and improving financial performance. Environmental and financial costs and benefits were evaluated with the understanding that a solid business case would be required before any changes were implemented.



### Work Completed To Date

At the conclusion of the eco-industrial audit™ we made the following recommendations:

- **Build EIN into SaskTel's Environmental Management System:** As SaskTel moves to implement its environmental management plan - a commitment reiterated in its most recent Environmental Report - it can lay the foundation for successful EIN initiatives.
- **Reduce Material, Energy, and Water Inputs (and Save Money!):** Recommendations covered vehicle fuel, building energy, paper, telecommunications materials, chemicals and water consumption, as well as green procurement & supplychain management
- **Manage Waste (and Save Money!):** Promote conservation and recycling; extract value from "waste"; reducing emissions
- **Improve Materials & Energy Tracking:** integrate materials management and accounting so that waste can be tracked, and success can be measured
- **Build Sustainability into Staff and Management Training:** Staff were very enthusiastic about working for a "greener" company. The best results from incorporating EIN into operations will come from knowledgeable staff and management.
- **Leverage Resources within SaskTel:** Encourage internal information exchanges, for example, between purchasing staff and fleet managers, to identify EIN opportunities and maximize benefits. Transfer the success at Longman to other SaskTel facilities.



### PROJECT SCALE

Corporate facility (work centre & warehouse)

### CLIENT

SaskTel is the leading full-service communications provider in the Canadian province of Saskatchewan. SaskTel has more than 454,000 customers, and 4,000 employees.

### PARTNERS

- SaskTel Environment Department
- SaskTel Management & Staff
- Buildings & Operations, Purchasing, Vehicle Management, Corporate
- JCSI Environmental

### TECHNIQUE / TECHNOLOGY

- Eco-Industrial Audit™
- Eco-Efficiency Studies
- Interdepartmental EIN
- Multi-stakeholder process

# Achievements

"All segments of SaskTel Holding Corporation (HoldCo) will conduct their business in a manner that maintains a balance between corporate, economic and environmental goals in support of environmental sustainability"

- SaskTel Environmental Policy

Staff and management at ALL levels were actively engaged in a discussion around sustainability, eco-efficiency, and EIN. Keen to follow-up on recommended actions, Sasktel has already made the following changes:

- Implemented new, GIS-based work order system, significantly reducing repair truck driving distances, fuel consumption and greenhouse gas emissions, AND improved service;
- Launched company-wide **Recycling and Waste Reduction Program**.
  - ↑ Recycling activities from 15 facilities to 60
  - ↑ recycling of paper / cardboard / wire & steel
- Several **energy reduction initiatives** (delamping; LV lighting control system; fan schedule changes). Total energy savings = **970,828 KWhr/yr** (exceeded 1% target)!
- **Purchased three hybrid service trucks** (partnered with General Motors)
- **Developed a green purchasing policy**, boosted green power purchases, and are organizing a Telecom Industry Conference on the Environment. For contractors, they have developed a "*Contractor Environmental Responsibilities*" document and a "*Contractor Environmental Acknowledgement*" form.
  - Selected a new rental phone model (100% recyclable)
- Launched training initiatives, communication strategies and awareness programs for increased participation in environmental programs and increased efficiency of existing programs.
- Enhanced the SAP tracking system to account for kg of materials in addition to \$\$.
- **Payback for this audit was achieved in less than 6 months!**



## What's Next?

In this case, an audit at one facility had implications for all of their operations *and* for their supply chain. The company is planning to conduct Eco-Industrial Audits™ at its other facilities, and has become a member of the newly formed Regina Eco-Industrial Networking Association, which will be working to retrofit EIN throughout Ross Industrial Park. For SaskTel, EIN strategies will also ensure that environmental management enhances competitiveness within the industry, and promotes innovation and leadership.

## WHAT IS ECO-INDUSTRIAL NETWORKING (EIN)?

EIN embraces a systems approach and lessons from nature. In practice, EIN creates collaborative relationships (networks) between businesses, governments, and communities to more efficiently and effectively use resources, such as materials and energy, but also including land, infrastructure, and people.

In practice, this results in:

- "Waste = food" synergies
- Multi-objective infrastructure systems (utilities / services)
- Sustainable economic development;
- More efficient land use planning
- Green buildings, technologies & practices
- Greater returns for capital investment
- Leveraged partnerships between public and private organizations; and
- Integral consideration of ecological, social, and economic impacts

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