



Using NPRI Data to Evaluate P2 Programs in 4 Industrial Sectors

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Outline

- Introduction
- Methodology
- Analysis Results
- Conclusion and Recommendations



Introduction

- The government's approach to P2
 - P2 policies & strategies in Canada
 - National Pollutant Release Inventory (NPRI)



Objectives of the Study

- P2 Trends Assessment
- Applicable P2 Techniques Assessment
- P2 Opportunities Identification



Methodology

- Data collection techniques
- Data analysis
- Research limitations



Selected Industries

- Food Industry
- Wood Industry
- Fabricated Metal Industry
- Chemical and Chemical Products Industry



Food Industry

- P2 Activity Trends in the Food Industry
- Implementation of Recommended P2 Technologies and Techniques (16/25)
- Envi & Eco Performance of Applied P2 Technologies and Techniques (8/25)
- P2 Barriers and Opportunities (3/8)



Wood Industry

- P2 Activity Trends in the Wood Industry
- Implementation of Recommended P2 Technologies and Techniques (13/26)
- Envi & Eco Performance of Applied P2 Technologies and Techniques (7/26)
- P2 Barriers and Opportunities (4/14)



Fabricated Metal Industry

- P2 Activity Trends in the Fabricated Metal Industry
- Implementation of Recommended P2 Technologies and Techniques (24/32)
- Envi & Eco Performance of Applied P2 Technologies and Techniques (16/32)
- P2 Barriers and Opportunities (4/10)



Chemical and Chemical Products Industry

- P2 Activity Trends in the Chemical & Chemical Products Industry
- Implementation of Recommended P2 Technologies and Techniques (18/30)
- Envi & Eco Performance of Applied P2 Technologies and Techniques (13/30)
- P2 Barriers and Opportunities (2/6)



Main Findings

- Barriers exist but they are often company-specific
- Confusion of P2 terminology and concept exists during reporting
- Lack of quantitative P2 performance data
- Lack of monitoring of on-going P2 implementation



Conclusion

- There is increased reporting of P2 activities
- Certain P2 categories are predominantly used
- Based on the literature and the clarified information P2 opportunities still exist



Recommendations

- Provide additional P2 assistance and training programs
- Establish standard measuring and estimating system for analysis of P2 progress
- Require quantitative P2 performance reporting
- Gather the information on ongoing P2 implementation



References

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Analysis Results & Discussion (cont'd)

P2 Activities in the Food Industry in the Atlantic Provinces(2000-2002)

Activity	2000	2001	2002
Materials or feedstock substitution	7.1%	0%	6.3%
Product design or reformulation	0%	0%	0%
Equipment or process modifications	0%	15.5%	10.4%
Spill and leak prevention	14.3%	10.5%	0%
On-site recovery, reuse, or recycling	0%	5.3%	2.1%
Improved inventory management or purchasing techniques	0%	0%	0%
Good operating practice or training	14.3%	47.4%	31.3%
Other	0%	0%	0%
No new P2 activity	64.3%	21.1%	50.0%
Number of P2 activities	14	19	48
Number of reporting facilities	6	7	13

Sources: NPRI, 2000-2002