MEXICAN POLLUTANT RELEASE AND TRANSFER REGISTER (PRTR)

SGPA-DGGCARETC-DRIRETC

April, 2010

Background

- México participated in a pilot project conduced by UNITAR
- National Coordination Group and National Executive Establishment Proposal, 1994-1995
- Research study for the PRTR report (approximately 45 facilities), 1995-1996

PHASE I: VOLUNTARY REPORT

- PRTR voluntary annual report (approximately 150 facilities, 9 substances where reported with minimum amounts), 1998-2004
- Publication of the voluntary regulation (NMX) including 104 PRTR substances list, 2001

PHASE II: MANDATORY REPORT

- Environmental law amendment. Art. 109 Bis LGEEPA, 2001
- Electronic format update (COA), negotiation of the PRTR regulation with stakeholders, from 2002 to 2005
- Training materials development (tutorials, guides, DVD & CD), video conferences and training workshops were provided to approximately 15, 000 people
- Reception and COA review: 2004 (11,500), 2005 (25,500), 2006 (28.900), 2007 * (10,500), and 2008 (7,600)

*Change of regulation for hazardous waste

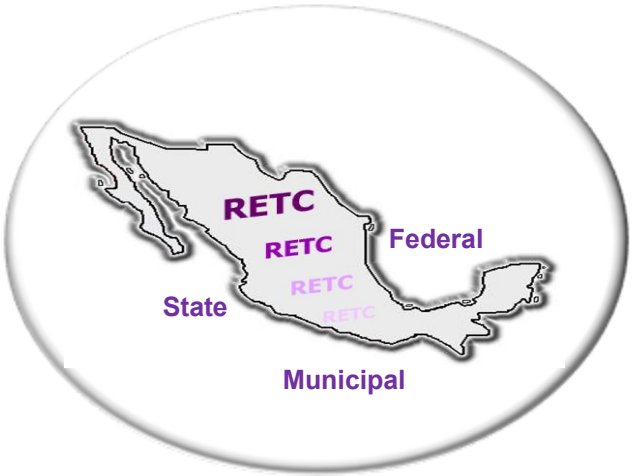
Institutional Importance PRTR

Air Emissions Inventory

Waste Inventory

Greenhouse Gases Inventory

Cleaner Production



Chemical Inventory

Regulation instrument's generation and updating

ODS Emissions Inventory

Persistent Organic Pollutants Emissions Inventory

Urban Ecological Planning

Electronic Format to report PRTR

General Data

- I Process description: flow process and raw material, fuel consumption
- II Air Criteria Pollutants
- III Emissions and transfers PRTR substances to water bodies and sewage
- IV Report of hazardous waste generation
- V Pollutant Release and Transfer Register (PRTR) substances

- Electronic report multimedia (integrates reports of to air, water, hazardous waste, emissions and transfers)
- Comparability elements with North America PRTR
- Environmental performance follow up
- Emissions and transfers related to process stages

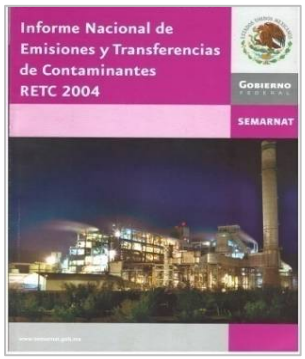
PRTR Substances List

- Montreal Protocol 17 Ozone Depleting Substances (ODS)
- Stockholm Convention 12 Persistent Organic Pollutants (POP)
- Kyoto Protocol 6 Green House Gases (GHG)
- Persistence, bioaccumulation and toxicity substances included in Mexican Regulations
  - •Air, water and waste
  - •Risk Assessment List

→ ***104 PRTR substances***

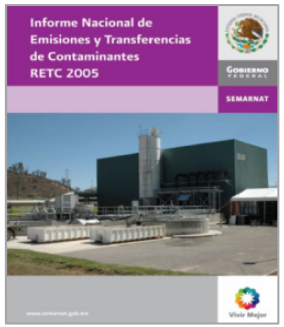
Mandatory Reports

RETC, 2004



1,719 facilities

RETC, 2005

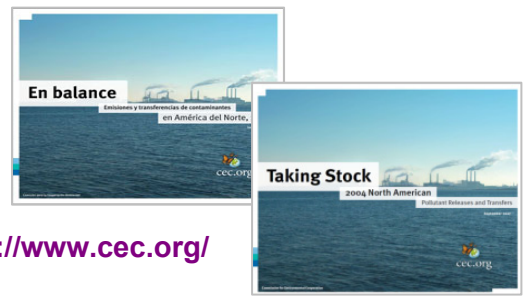


2,451 facilities

RETC, 2006
2, 736 facilities

RETC, 2007
2446 facilites

PRTR of North America



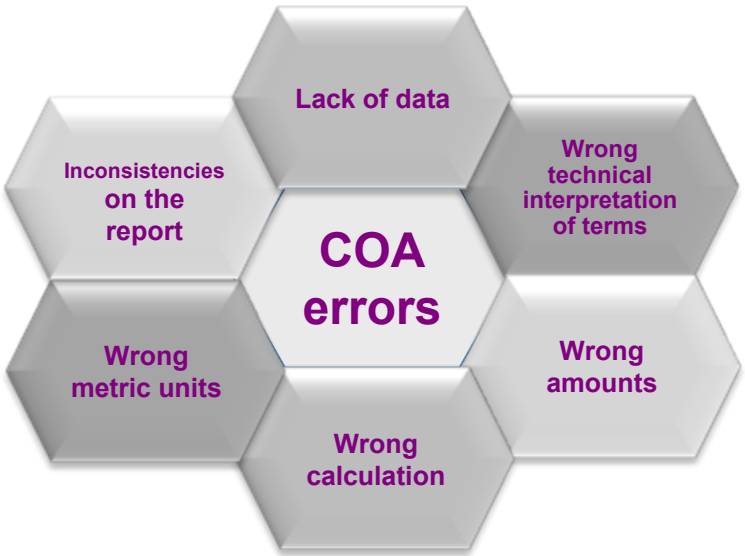
http://www.cec.org/

RETC-web

http://app1.semarnat.gob.mx/retc/index.html

Quality Assurance/Quality Control of Information

- 200 review criteria (BD and COA)
- Benchmarking by industry
- Comparative analysis of historical information by company

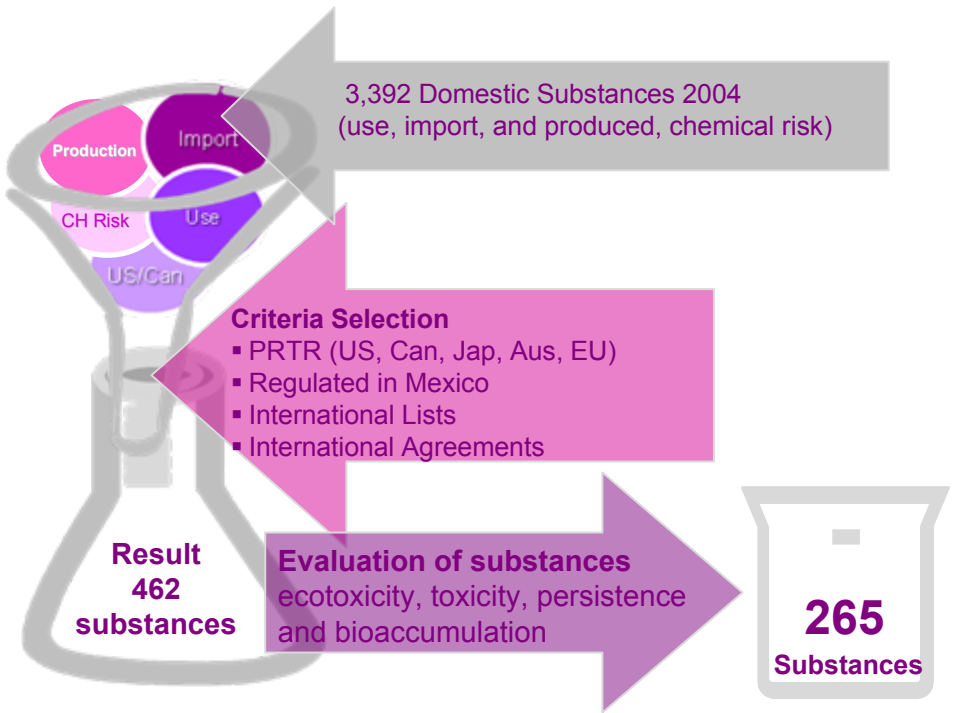


- Big opportunities to improve information
- Generation of guides by industrial sector
- Emission factor generation

Substance Selection Procedures

Studies

- Usage analysis for the 104 substances
- Usage analysis for the 178 substances that are comparable within US and Canada
- Identification of consumption, sale, import, export and production in Mexico of the 104 PRTR substances
- Evaluation of 462 Substances: ecotoxicity, toxicity, persistence and bioaccumulation



Internationally Comparable Substances 2005

CAS	Name	Mex	US	Can	EU	Jap	Aus
79-01-6	Trichloroethylene	✓	✓	✓	✓	✓	✓
107-06-2	1,2-Dichloroethane	✓	✓	✓	✓	✓	✓
71-43-2	Benzene	✓	✓	✓	✓	✓	✓
67-66-3	Chloroform	✓	✓	✓	✓	✓	✓
75-09-2	Dichloromethane	✓	✓	✓	✓	✓	✓
75-01-4	Vinyl chloride	✓	✓	✓	✓	✓	✓
108-95-2	Phenol	✓	✓	✓	✓	✓	✓

Lessons Learned

- Maintain the political wiliness
- The PRTR was the first instrument of information public access in Mexico Information
- Information supports national and international conventions agreements
- Environmental legal framework update to implement PRTR at National level
- Important participation of NGO in the PRTR communication process
- Information for Strategic Environmental Planning, determination of environmental infrastructure needs and development of environmental regulatory framework
- Reducing emissions of hazardous substances at the industry, build trust and credibility in government
- Capacity building National wide on substance estimation
- Integrated reporting format COA:
  - → PRTR information (water discharged, PRTR substances waste generated, total air emissions, fuel consumption, etc).
  - → Simplification of procedures through an environmental report
  - → It includes elements of comparability (Substance, thresholds, industrial sector, etc)

Challengers

- Official Standard publication provides for the inclusion of more toxic and ecotoxic substances
- Systems development in new computing platform
- Automatic information review optimize information processing and increase the reliability and consistency of information
- Implementation of Communication Master Plan
- Continue building capacity for information processing at the 32 states and 100 main municipalities
- International benchmarking and information exchange
- Continue to share international experience in implementing and updating the PRTR

THANK YOU