



Latvija



Environmentally sound disposal of PCBs containing equipment and waste in Latvia

LEGAL FRAMEWORK

- Requirements under Stockholm convention and Aarhus protocol of Geneva convention with regard to elimination of PCB containing equipment and waste
- Requirements under EU regulation No 850/2004 on persistent organic pollutants
- Requirements under Regulations of Cabinet of Ministers, providing that PCB containing equipment and waste are disposed of until December 31st, 2010
- Persistent organic pollutants national implementation plan 2005 – 2020 approved by the Cabinet of Ministers on March 31, 2005

ACTUALITY OF THE PROBLEM

- Polychlorated biphenyls (PCB) and Polychlorated trifenylys (PCT) – hazardous substances
- PCB containing equipment – one of the main sources of the PCB in Latvia
- PCB oils are hazardous waste that has to be properly collected and disposed
- Equipment mostly located within energy – intensive industries



GAINS ON GLOBAL AND NATIONAL LEVEL

- Legislative requirements met with regard to elimination of the PCB containing equipment until 2010
- Overall gain: Environment quality improved and contamination risk with PCBs decreased by providing:
 - ✓ Collection and disposal of more than 280 tons of PCB containing equipment and waste
 - ✓ Support to companies to plan PCB disposal un enforcement of safe PCB management
 - ✓ Awareness raised on possible hazards to health and environment in connection with PCBs by providing training on safe management of PCBs
 - ✓ Sources of PCB identified by finalizing inventory
 - ✓ Public/private partnership strengthened
- Opportunity to research other minor sources of PCB

GAINS – COMPANIES

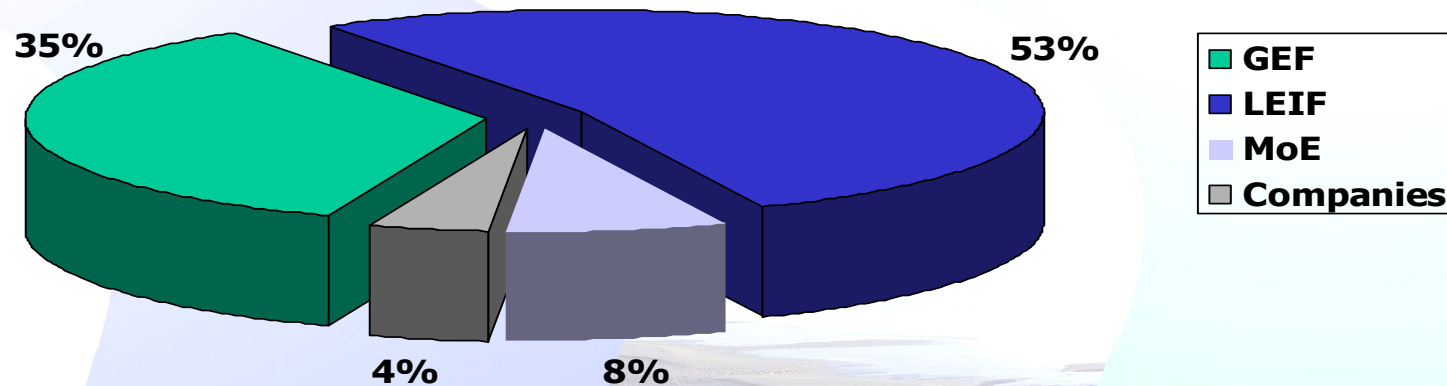
- PCB waste problem solved with comparatively smaller investments
- PCB containing equipment replaced with new non – PCB containing equipment
- Knowledge gained on safe management of PCB containing equipment
- Companies show themselves as proactive, and paying attention to environment and health issues

INVOLVMENT OF THE COMPANIES

- In the beginning of 2005, 12 companies signed MoU on participation in the project
- Up to 2005, 40 companies holding PCBs containing equipment have been identified
- 2/3 of the equipment – still in operation
- Companies participate with co-financing for decommissioning of the equipment and transportation to the temporary storage site (in Latvia)



PROJECT BUDGET



Financing source	Expenses USD	Project component
GEF	999 600	Disposal of PCB containing equipment, training, awareness raising
LEIF	1 500 000	Replacement of PCB containing equipment
Companies	118 596	Decommissioning, transportation to the temporary storage site
MoE	223 500	Temporary storage site Supervision of the project

TASKS AND OBJECTIVES

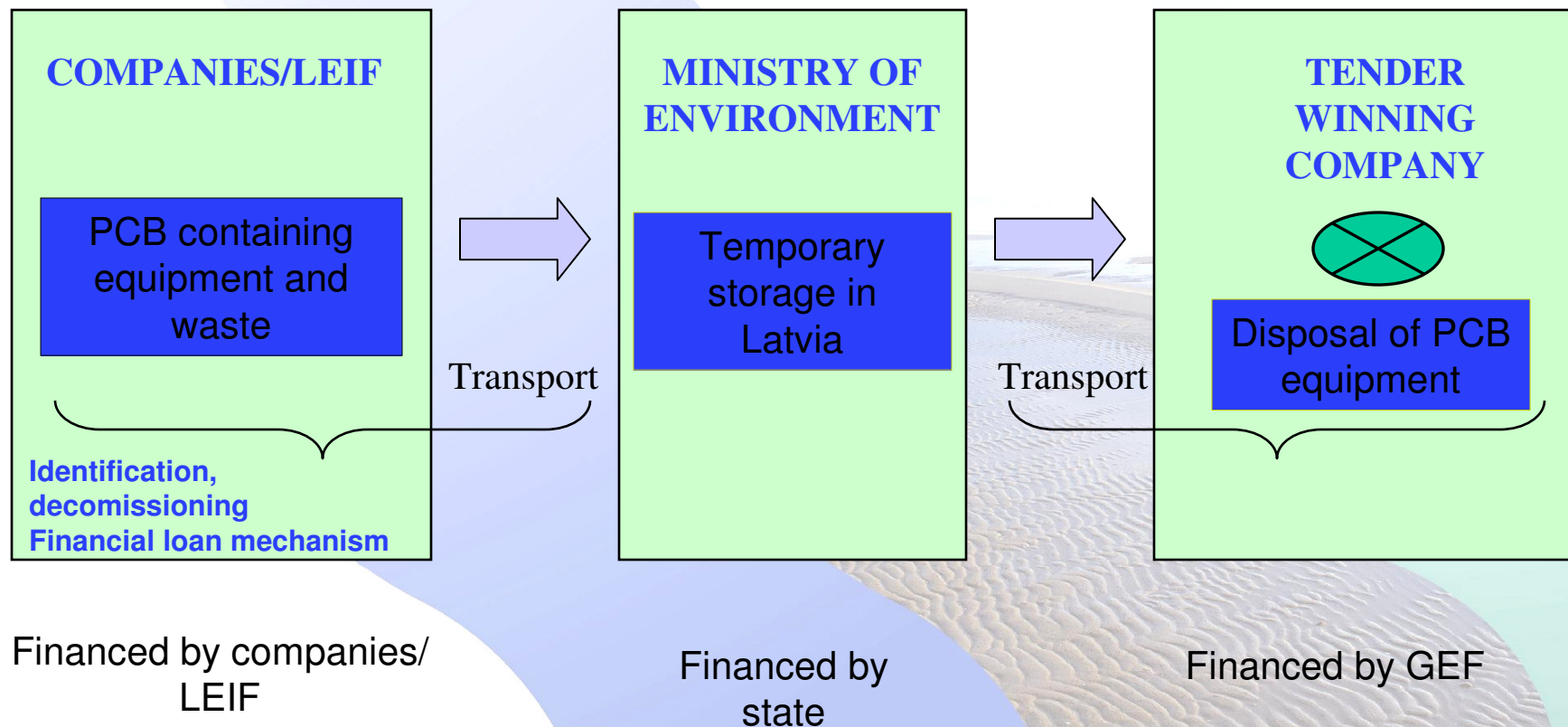
Project objectives :

- Decrease/prevent contamination with PCBs
- Increase awareness about PCBs

Project tasks:

- Collect and dispose of the PCBs containing equipment – capacitors and transformers, and waste
- Develop financial loan mechanism for replacement of PCBs containing equipment
- Cooperate with SES in order to finalize inventory and to develop support system to companies to devise disposal plans
- Raise awareness about PCBs by providing training on safe PCB management to PCB equipment holders and handlers

REALIZATION OF THE PROJECT



REALIZATION IN TIME

Project commencement date : March 2006

Total project duration : 36 months

Collection of PCB equipment

Replacement of PCB equipment

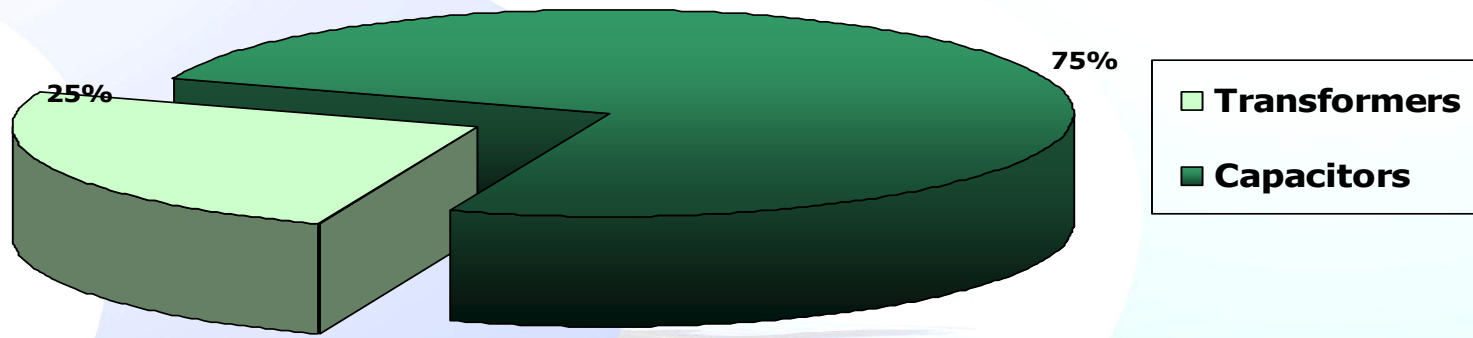
Disposal of PCB equipment and waste



INVENTORY OF PCB CONTAINING EQUIPMENT

- Inventory to be finalized until 2007
- Up-to-date in total:
 - **72 companies inspected**
 - **6000 capacitors identified**
 - **34 transformers identified**
- Most of the equipment is still in operation:
 - **2/3 of capacitors**
 - **all transformers**
- Most common industries to use PCB equipment – engineering, metallurgy, chemical and pharmacy industry
- Anticipated increase of number of PCB holders upon finalization of inventory

ESTIMATED REPLACEMENT COSTS



Financing source	Expenses LVL / USD	Equipment to be replaced
TRANSFORMERS	500 000 LVL / 900 000 USD	34 transformers
CAPACITORS	1 500 000 LVL / 2 700 000 USD	6000 capacitors

* Disposal costs not indicated

COMPANIES HOLDING LARGEST NUMBERS OF PCB EQUIPMENT

Company	Type & number	Replacement costs USD
Latvenergo	2282 capacitors	1 245 000 USD (replaced)
Liepājas metalurģis	27 transformers	700 000 USD
Ditton	6 transformers 100 capacitors	130 000 USD
Latvijas Dzelzceļš	1 transformer 130 capacitors	85 000 USD
Rīgas satiksme	155 capacitors	80 000 USD
		2 240 000 USD

THANK YOU!

Project partners:

UNDP, Ministry of Environment,

Environmental investment fund Ltd., companies

Project manager:

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