

**Decree of the Government of Georgia №247**

*23 May, 2018 year*

*Tbilisi*

**On Approval of Persistent Organic Pollutants  
National Implementation Plan 2018-2022**

**Article 1.** In accordance with Article 7 of the Stockholm Convention on Persistent Organic Pollutants, ratified by the Resolution N2840-I of the Parliament of Georgia of April 11, 2006; Article 5 with Sub-Article “s” of the Law of Georgia on the Structure, Authority and Operation Rules of the Government of Georgia; Article 12 of the “Waste Management Code”, to avoid harmful impact of Persistent Organic Pollutants on human health and environment and fulfil requirements of “Stockholm Convention” and create an effective chemical system:

1. “Persistent Organic Pollutants National Implementation Plan 2018-2022” should be adopted (Hereinafter - National Implementation Plan).
2. Fulfilment of National Implementation Plan should be coordinated by the Ministry of Environment Protection and Agriculture (Hereinafter – Ministry).
3. The Ministry should cooperate with international organizations and donor countries in order to get technical and financial support, and achieve the goals and objectives of the National Implementation Plan.

**Article 2.** The Ordinance shall come into force upon publication.

*Prime Minister*

*Giorgi Kvirikashvili*

**Persistent Organic Pollutants  
National Implementation Plan  
2018-2022**

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## EXERCUTIVE SUMMARY

This document represents the National Implementation Plan (NIP) for the management and phase out of Persistent Organic Pollutants (POPs) in Georgia, compiled in accordance with Article 7 of the Stockholm Convention (SC) on Persistent Organic Pollutants. Georgia ratified Stockholm Convention on 4 October 2006, which entered into force on January 2, 2007.

The Stockholm Convention imposes a worldwide ban on the production, use and trade in eight pesticides (aldrin, chlordane, DDT, dieldrin, endrin, heptachlor, mirex and toxaphene), two industrial chemicals (hexachlorobenzene and PCBs) and two by-products of incineration processes (dioxins and furans) from 2004 onwards.

In 2009, 2011 and 2013, the Conference of the Parties (COP), listed ten additional POPs namely, the following pesticides: chlordecone, alpha hexachlorocyclohexane, beta hexachlorocyclohexane, lindane, endosulfan and pentachlorobenzene (PeCBz); industrial chemicals: commercial polybrominated diphenyl ether (POP-PBDE), hexabromobiphenyl (HBB), hexabromocyclododecane (HBCD), perfluorooctane sulfonic acid and its salts (PFOS) and perfluorooctane sulfonyl fluoride (PFOSF).

The Stockholm Convention imposes the obligation on the Parties to develop, within two years of the ratification of the Convention/adoption of the amendments, a NIP describing the national situation in respect of the substances covered by the Stockholm Convention and develop action plans.

The first NIP of Georgia was approved by Decree of Government of Georgia No 907/2011 on Approval of Persistent Organic Pollutants National Implementation Plan.

With funds made available by the Global Environment Facility (GEF) and technical assistance from the United Nations Environment Programme (UNEP) was prepared an updated version of the NIP for Georgia.

The NIP describes the background of the POPs issues in Georgia and the current situation of the POPs substances. Furthermore, the NIP details all the strategies and actions which need to be undertaken in order to meet all the obligations of the Convention. Inventories for all POPs groups, initial and newly added POPs, have been successfully compiled during the NIP preparation process. The inventories were robust enough for assessment of the dimension of the presence of different POPs categories in Georgia, as well as for priority setting considerations for the action plans. Several inventories will, however, need to be broadly and more comprehensively conducted within the NIP implementation process.

POPs pesticides (existing and newly listed) are not produced in Georgia. Further there is no import of POPs pesticides into the country. All POPs-Pesticides are banned for use. However there are still pesticide stockpiles. The main remaining pesticide stockpile is at the Iagluja mountain range in an area of ca. 4 hectares.

A GEF project implemented in 2011-2014 focused on determining the chemicals contamination, the environmental risks, for the Iagluja polygon. Within this project 230 tonnes of pesticides were excavated, packed and exported to Belgium and France for environmentally sound destruction. A detail inventory of these stockpiles has been

established at the project frame and a rehabilitation plan with different scenarios has been developed. At 2016 year 208 ton pesticides were exported to France for environmentally sound destruction.

For Polychlorinated biphenils (PCBs) a first screening of PCBs in oils from electric equipments (transformers, capacitors and circuit breaker) have been conducted.

Quantitative analysis of oil samples on PCB content showed that in more than 20% of the samples PCB content exceeded 50 ppm (the maximum permissible concentration). It should be noted that mostly companies have their own oil storage facilities where different transformer oils are collected for their cleaning purposes by the regeneration plant that mainly removes mechanical impurities, does dehydration and reduces acidity of oil. The regenerated oil from storage facility is reused and brought back to the existing network based on needs. Since there is no practice on PCBs detection or removal at all the companies this creates high risk of so call "cross-contamination" in the whole system.

The quantities of polychlorinated dibenzo-p-dioxin and dibenzofuran releases (PCDD/PCDF) released into the environments of Georgia in 2014 from all sources are estimated to 33.4 g PCDD/PCDF TEQ (toxic equivalent). Ferrous and non-ferrous metal production processes had the largest share of impact with an emission.

Also, at the frame of the project new POPs preliminary inventory and assessment was carried out. According to the inventory the new POPs containing articles have not been produced in Georgia. However articles containing new POPs have been imported into Georgia.

In the course of polybrominated diphenyl ether (POP-PBDE) inventory have been identified:

- Georgia have imported and is importing different (used) vehicles manufactured in 1975 - 2004, respectively which could include POP-PBDE containing PUR foams and textiles. The total estimated amount of POP-PBDEs in imported vehicles was 91 tonnes out of which 60 tonnes in passenger cars, 7 tonnes in trucks and 24 tonnes in buses. The total estimated amount of PUR foam in vehicles to be managed at national level is estimated to approx. 10,000 tonnes where only a share is impacted by PBDEs.
- In cathode ray tube (CRT) electronic equipment (TVs or computer monitors) the estimated amount of POP-PBDEs ranges between 4.4 tonnes to 12.9 tonnes. The total amount of polymeric fraction of the estimated CRTs containing POP-PBDEs to be managed at national level is estimated to 5060 tonnes.

According to the inventory HBCD, PFOS and related chemicals are not produced in Georgia.

However, into the country are imported materials/products containing HBCD, PFOS and related chemicals. In particular:

- HBCD contains mostly insulating materials used in the construction sector and special protection uniform
- PFOS and related substances contains mainly firefighting foams, textile, aviation

hydraulic fluids

In the course of inventory have been identified:

- For the period 2006–2012 in 700 tonnes of insulation foam imported to Georgia estimated amounts of HBCD ranges between 4000 – 20000 kg
- For the period 2006–2014 in 1600 tonnes of special protection uniform imported to Georgia estimated amounts of HBCD ranges between 35324 - 240992 kg
- For the period 2006–2014 in 6600 tonnes of aviation hydraulic fluids imported to Georgia estimated amounts of PFOS and related substances ranges between 3338 - 6673 kg
- For the period 2006–2014 in 340 tonnes of firefighting foams imported to Georgia estimated amounts of PFOS and related substances ranges between 1647 - 19776 kg

There is no practice of Pentachlorobenzene (PeCBz); Hexabromobiphenyl (HBB) and their containing materials import in the country. There is no use and does not happen recording of their stocks.

The reporting process in accordance with Article 15 on implementation of the Stockholm Convention and information exchange with other Parties to the Convention, through the Stockholm Convention Official contact point (OCP), is coordinated by the Ministry of Environment Protection and Agriculture.

## **OBJECTIVES of the NATIONAL IMPLEMENTATION PLAN**

Safe lifecycle management, pollution control, reduction, treatment and finally elimination of POPs in Georgia to meet the requirements of the Stockholm Convention on POPs, contribute to protecting human health and environment, toward sustainable development in Georgia and international integration.

## **PRIORITIES of the NATIONAL IMPLEMENTATION PLAN**

POPs related priority issues were set in consultation with all the relevant stakeholders by joint efforts of UNEP/GEF POPs project, and took into consideration the best interests of the country. The following main areas were identified:

- Polychlorinated biphenyls (PCBs)
- POPs pesticides (Iaghluja burial)
- Unintentional POPs (UPOPs) - polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF)
- Polybrominated diphenyl ethers POP-PBDEs
- Hexabromocyclododecane (HBCD), Perfluorooctanesulfonic acid (PFOS) and related substances

**Polychlorinated biphenyls (PCBs)** – refers to electrical equipment (transformers, capacitors and circuit breaker) oil and waste containing of polychlorinated biphenyls (PCBs).

Based on existing oil management practices, it should be mentioned that there is a need of oil assessment and sampling for all electric equipment around the country for a detailed inventory of the impacted oil volumes and the level of pollution at the national level.

Also there is necessity to carry out the environmental sound management and stepwise phase out monitoring of PCB containing oils and equipment.

**POPs pesticides** - refers to Iaghluja obsolete pesticides burial, which was opened in 1976 and operated until 1985. During this period 2700 tonnes of pesticides of various chemical groups were buried.

At the dumpsite are presented sarcophagus, pits and trenches containing POP pesticides (mainly DDT and HCH), also the excess of other obsolete pesticides and other agro-chemicals.

Based on the existing situation there is a need of:

- Removal and packaging of POPs containing pesticides stored at Iaghluja burial
- Elimination of POPs containing pesticides disposed at the Iaghluja burial and collected throughout the country
- Improvement of Iaghluja burial current state: studying/evaluating status of the burial; remediation of contaminated soil; reliable isolation of Iaghluja burial etc.

**Unintentional POPs (UPOPs) polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF)** – refers to emissions of polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF).

According the inventory total annual emissions of Unintentional POPs (UPOPs) polychlorinated dibenzodioxins (PCDD) and polychlorinated dibenzofurans (PCDF) decreased compared to 2004, however there are some source categories for which there is a considerable increase in emissions release; the reasons for these are the following:

- Increase of of Ferrous and Non-Ferrous Metal production of mineral products
- Increase of production of mineral products
- Increase of number of transportations vehicles
- Increase of production capacity (Kraft process, Chlor Alkali production, Leather production)

Accordingly, there is need of implementation of corresponding measures to decrease emissions from above sectors.

**Polybrominated diphenyl ethers POP-PBDEs** – refers to cathode ray tube (CRT) containing EEE/WEEE and used vehicles produced in 1975-2004 years containing of polybrominated diphenyl ethers (POP-PBDEs).

Based on existing situation, it should be mentioned that there is a need of:

- Inventory of EEE/WEEE
- Carrying out inventory of POPs-PBDEs in the transport sector including an inventory of end-of-life vehicles
- Restricting the import of EEE containing cathode ray tube (CRT) and used vehicles produced before 2005 year
- Promoting the application BAT/BEP on recycling of POP-PBDEs containing materials.

**Hexabromocyclododecane (HBCD) and Perfluorooctanesulfonic acid (PFOS)** - refers to materials and products (Insulation materials, special protection uniform, firefighting foams, textile, aviation hydraulic fluids) containing Hexabromocyclododecane (HBCD) and Perfluorooctanesulfonic acid (PFOS) and related substances.

Based on existing situation, it should be mentioned that there is a need of:

- Carrying out an overall inventory of HBCD and PFOS containing articles and consumer products
- Control export and import of materials and products containing HBCD, PFOS and related chemicals
- Promoting the application BAT/BEP on use of HBCD, PFOS and related chemicals.

**In consideration of these general challenges, the actions were defined as follows:**

- Development of National legal framework harmonized with the requirements of Stockholm, Basel and Rotterdam Conventions and EU legislation
- Institutional capacity building in the field of chemical and waste management
- Strengthen the control on the import, sales, use, storage and transport of POP pesticides and highly hazardous materials
- Promoting the application BAT/BEP on recycling of POPs containing materials
- Development and bringing in compliance of old landfills and promotion of modern waste management practices
- Management, remediation of POPs contaminated sites and elimination of POPs containing materials
- Raise public awareness on the adverse impact of POPs on human health and environment
- Promote POPs related research and create possibilities for POPs monitoring
- Implementation of different pilot projects related to safety management of chemicals and POPs
- Strengthen international cooperation in the field of chemicals and POPs management

## **ACTION PLANS**

The POPs action plans have been developed based on the identified priority areas, in consultation with the stakeholders. It sets objectives, activities, expected results, responsible parties, timeframes, approximate costs and potential funding sources.



**Table 1** Action Plan for elaboration of legal base and institutional strengthening

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Coordination of POPs NIP implementation	Establishment of inter-ministerial coordination group	Efficient implementation of NIP	Ministry of Environmental Protection and Agriculture of Georgia together with other relevant ministries and stakeholders	100 000 USD	GEF, EU, donor countries and organizations	2018 - 2022
Development of legal National framework in accordance with the requirements of Stockholm, Basel and Rotterdam Conventions and EU legislation	Analysis of the current situation; developing new or improving the existing legislation in consideration with the POPs management issues. Identification of the enforcement needs. Implementation of the Polluter Pays Principle and the Extended Producer Responsibility	The new legislation is developed or amendments are identified that will be introduced into the legislation Legislation is improved and it reflects the respective requirements of Conventions and EU directives The Polluter Pays Principle and Extended Producer Responsibility are introduced	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Economy and Sustainable Development of Georgia Ministry of Labor, Health and Social Affairs of Georgia Ministry of Finance of Georgia	300 000 USD	GEF, EU, donor countries and organizations	2018 - 2022
Development and updating the database of chemicals and wastes regulated by	Developing and updating the unified database of chemicals and wastes regulated by the Stockholm, Basel and	The database is elaborated, which complies with the international standards (IUPAC and CAS), harmonized code system	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Finance of	250 000 USD	GEF, EU, donor countries and organizations	2020 - 2022

the Stockholm, Basel and Rotterdam Conventions	Rotterdam Conventions in accordance with the international standards and in consideration of the analysis of the current situation	(HS), and based on this, management of chemicals and wastes regulated by the Stockholm, Basel and Rotterdam Conventions is improved	Georgia			
Inclusion of POPs waste management within the waste management policy and unified waste management system	Developing the waste management framework program and waste management system while considering the inclusion of POPs waste management having in regard technical, organizational, economic and financial feasibility	The waste management policy framework and the waste management system are developed considering POPs	Ministry of Environmental Protection and Agriculture of Georgia in cooperation with the relevant stakeholders	150 000 USD	GEF, EU, donor countries and organizations	2020 - 2022
Institutional capacity building in the field of chemical and waste management	Identifying the institutional framework and capacity building in the field of waste and chemical management	The institutional frameworks are identified and capacities are improved	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Labour, Health and Social Security of Georgia	150 000 USD	GEF, EU, donor countries and organizations	2018 - 2022
Training of the employees of all relevant ministries and agencies in waste and chemical management issues	Organizing trainings and workshops for capacity building	The capacities of the employees are improved	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Finance of Georgia (Revenue Service) Ministry of Labour, Health and Social Affairs of Georgia Other relevant agencies	150 000 USD	GEF, EU, donor countries and organizations	2018 - 2022

<p>Inclusion of POPs containing products in the unified identification mechanism for the chemically contaminated materials</p>	<p>Develop specific mechanism for each POPs group containing products and articles identification</p>	<p>The mechanism for identification of chemically contaminated products and articles is approved</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Labour, Health and Social Affairs of Georgia  Ministry of Economy and Sustainable Development of Georgia</p>	<p>300 000 USD</p>	<p>GEF, EU, donor countries and organizations</p>	<p>2020 - 2022</p>
<p>Promotion to strengthening international cooperation in the field of chemicals management</p>	<p>Developing and implementing projects relevant to chemicals management  Establish Protocols of cooperation on chemicals management  Involve Georgia in regional and international research projects</p>	<p>Projects relevant to chemicals management are developed and implemented  Protocols of cooperation on chemicals management are established  Georgia is involved regional and international research projects</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Labour, Health and Social Affairs of Georgia  Research institutes and universities</p>	<p>200 000 USD</p>	<p>GEF, EU, donor countries and organizations</p>	<p>2018 - 2022</p>

**Table 2** Action plan for POP pesticides

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Additional inventory of POPs pesticides	Carrying out the additional inventory of POPs containing pesticides in accordance with FAO and UNEP methodologies	The additional inventory is accomplished. The report contains the updated information on POPs containing pesticides	Ministry of Environmental Protection and Agriculture of Georgia	200 000 USD	GEF, EU, Donor countries and organizations	2018-2019
Strengthen the control on the export, import, sales, use, storage and transport of POPs pesticides and highly hazardous pesticides	Carrying out training for farmers' associations, revenue service, exporters, importers, retailers and other target groups on POPs pesticides and highly hazardous pesticides	The illegal traffic and counterfeit products are prevented	Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Finance of Georgia(Revenue Service)	200 000 USD	GEF, EU, Donor countries and organizations	2018-2021
Set up of empty containers/packaging management system	Create a public-private partnership with the pesticides providers/industry	The empty containers/packaging are environmentally sound managed	Ministry of Environmental Protection and Agriculture of Georgia	250 000 USD	GEF, EU, Donor countries and organizations	2018-2020
Development of	Develop good agricultural	The good agricultural	Ministry of Environmental	500 000 USD	GEF, EU, Donor	2019-2022

<p>good agricultural practices and promoting organic agriculture</p>	<p>practices and disseminate among farmers and farmers associations</p> <p>Promoting organic farming</p> <p>Awareness raising on the benefits of organic farming</p>	<p>practices are developed and disseminated</p> <p>The possibility to provide subsidies for promoting organic farming is evaluated</p> <p>The awareness of organic farming is increased</p>	<p>Protection and Agriculture of Georgia</p> <p>Ministry of Finance of Georgia</p>		<p>countries and organizations</p>	
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**Table 3** Action plan for PCBs

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
In-depth inventory of PCBs	Carrying out inventory of the PCB containing equipment and oils at the national scale  Evaluation of PCBs uses in open applications	PCB containing oils and PCB contaminated devices inventory is accomplished and the database is developed  Existence of PCBs uses in open applications is assessed	Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Economy and Sustainable Development of Georgia  Energy Sector	1.9 mln USD	GEF, EU, Donor countries and organizations	2018-2022
Implementation of environmentally sound management of PCBs containing equipment	Carrying out training sessions for PCBs owners on sound management of in use and out of use PCBs equipment  Assessing destruction capacity in Georgia for PCB contaminated oil	In use and out of PCBs containing equipment is managed in environmentally sound manner	Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Economy and Sustainable Development of Georgia  Energy Sector	300 000 USD	GEF, EU, Donor countries and organizations	2018-2022

<p>Development of PCBs equipment and oils elimination plans according to requirements of the Convention</p> <p>Monitoring of PCBs containing equipment's stepwise phase out</p>	<p>Negotiate and commonly agree with each PCBs containing equipment owner on individual elimination plans</p> <p>Set up a team to monitor the compliance with the individual elimination plans</p> <p>Setting elimination progress reporting obligation for PCBs owners</p> <p>Set up fines for non-compliance with obligations</p>	<p>PCBs containing equipment and oils individual elimination plans are developed and PCBs phase out is monitored</p> <p>A team to monitor the compliance with the individual elimination plans is set up</p> <p>Progress reporting obligation for PCBs owners is set up</p> <p>Fines for non-compliance with obligations are set up</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Economy and Sustainable Development of Georgia</p> <p>Energy sector</p>	<p>400 000 USD</p>	<p>GEF, Donor countries and organizations</p>	<p>2019-2021</p>
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**Table 4** Action plan for PBDEs

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Inventory of total EEE/WEEE Assessment of current WEEE collection and management processes	Establishment of national inventory team and identify the relevant stakeholders Develop an inventory work plan Conduct the inventory and identify amounts of EEE/WEEE and estimate the POPs-PBDEs	The national inventory team is established The identification of relevant stakeholders is done and their participation is assured The inventory work plan is developed The inventory of the amounts of EEE/WEEE and estimation of POPs-PBDEs is performed	Ministry of Environmental Protection and Agriculture of Georgia Private sector Collectors and Recyclers	500 000 USD	GEF, EU, Donor countries and organizations	2019-2021
Carrying out an overall inventory of POPs-PBDEs in the transport sector including an inventory of end-of-life vehicles	Establishment of national inventory team Identify the relevant stakeholders Develop an inventory work plan Conduct the inventory of the	The national inventory team is established The identification of relevant stakeholders is done The inventory work plan is developed	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Economy and Sustainable Development of Georgia Recyclers	350 000 USD	GEF, EU, Donor countries and organizations	2019-2021



	number of vehicles in use and end-of-life vehicles and estimate POPs-PBDEs	The inventory of the number of vehicles in use and end-of-life vehicles and estimation of POPs-PBDEs is performed				
Evaluation of the possibility of restricting the import of CRT-containing EEE and used vehicles produced before 2005	<p>Evaluate the possibility to include such restriction in the legislation</p> <p>Initiate the relevant legislative amendments and submit for approval</p> <p>Raise awareness among the general public, importers, retailers and the custom officers on the new legislative requirements</p>	<p>The possibility to include such restriction in the available relevant legislation is evaluated</p> <p>The relevant legislative amendments are initiated and submitted for approval</p> <p>The awareness among the general public, importers, retailers and the custom officers on the new legislative requirements is raised</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Finance of Georgia</p> <p>Private sector</p>	250 000 USD	GEF, EU, Donor countries and organizations	2019-2021
Assessment of recycling activities of WEEE and WEEE plastic, technologies used and pollutants present	<p>Identification of recycling activities existent in the country</p> <p>Conduct investigations on the recyclers activities, technologies used, information on pollutants present</p>	<p>Recycling activities existent in the country are identified</p> <p>Investigations on the recyclers activities, technologies used, information on pollutants are developed</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Research institutes and universities</p>	250 000 USD	GEF, EU, Donor countries and organizations	2019-2022

<p>Promoting the application of BAT/BEP on recycling of POP-PBDEs containing materials</p>	<p>Translate (in national language) and disseminate of the Stockholm Convention guidelines for the recycling and waste disposal of articles containing POPs-PBDEs</p> <p>Implement pilot project on BAT/BEP application</p>	<p>The Stockholm Convention guidelines for the recycling and waste disposal of articles containing POPs-PBDEs are translated (in national language) and disseminated</p> <p>The pilot project on BAT/BEP application is implemented</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	<p>1 000 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2019-2022</p>
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**Table 5** Action plan for HBCD

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Inventory of insulation materials in construction sector to estimate total amount of EPS/XPS and content of HBCD	<p>Establishment of national inventory team</p> <p>Identify of the relevant stakeholders</p> <p>Conduct the inventory of the total amount of EPS/XPS and estimate the HBCD</p>	<p>The national inventory team is established</p> <p>The identification of the relevant stakeholders is done</p> <p>The inventory of the total amount of EPS/XPS and estimate the HBCD is performed</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Other authorities for approving construction</p> <p>Construction sector</p> <p>Private sector</p> <p>Recyclers</p> <p>Landfill owners</p>	350 000 USD	GEF, EU, Donor countries and organizations	2020-2022
Carrying out an overall inventory of HBCD in the textile applications	<p>Establishment of national inventory team</p> <p>Identify of the relevant stakeholders</p> <p>Develop an inventory work plan</p> <p>Conduct the inventory of HBCD in textile applications</p>	<p>The national inventory team is established</p> <p>The identification of relevant stakeholders is done</p> <p>The inventory work plan is developed</p> <p>The inventory of HBCD in textile applications is performed</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p> <p>Recyclers</p> <p>Landfill owners</p>	250 000 USD	GEF, EU, Donor countries and organizations	2020-2022

<p>Control export and import of materials, products, and wastes containing HBCD</p>	<p>Set up legislative measures for labeling materials, products and wastes containing HBCD</p> <p>Raise awareness among importers, exporters, retailers and customs officers on labeling and other managing requirements</p>	<p>The legislative measures for labeling materials, products and wastes containing HBCD are set up</p> <p>The awareness among importers, exporters, retailers and customs offices on labeling requirements is raised</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Finance of Georgia (Customs Department)</p> <p>Private sector</p>	<p>250 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2020-2022</p>
<p>Promoting the application of BAT/BEP on use of HBCD</p>	<p>Translate (in national language) and disseminate the Stockholm Convention guidelines for the production and use of HBCD</p> <p>Implement pilot project on BAT/BEP application</p>	<p>The Stockholm Convention guidelines for the production and use of HBCD are translated (in national language) and disseminated</p> <p>The pilot project on BAT/BEP application is implemented</p>	<p>Ministry of Environment and Natural Resources Protection of Georgia</p>	<p>500 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2020-2022</p>

**Table 6** Action plan for PFOS and related chemicals

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Conducting inventory of PFOS containing articles and consumer products	Identify of the relevant stakeholders Conduct the inventory of PFOS containing articles and consumer products (firefighting foams, aviation hydraulic fluids, metal plating, synthetic carpets and textiles)	The identification of relevant stakeholders is done The inventory of PFOS containing articles and consumer products (firefighting foams, hydraulic fluids, metal plating, synthetic carpets and textiles) is performed	Ministry of Environmental Protection and Agriculture of Georgia Emergency Management Agency Private sectors Recyclers Landfill owners	350 000 USD	GEF, EU, Donor countries and organizations	2020-2022
Control export and import of materials and products containing PFOS and PFOS-related chemicals	Set up legislative measures for restricting the export and import of materials and products containing PFOS and PFOS-related chemicals Raise awareness among importers, exporters, retailers and customs officers	The legislative measures for restricting the import and export of materials and products containing PFOS are set up The awareness among importers, exporters, retailers and customs officers is raised	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Finance of Georgia	300 000 USD	GEF, EU, Donor countries and organizations	2020-2022

<p>Promoting the application of BAT/BEP on use of PFOS and PFOS-related chemicals</p>	<p>Translate (in national language) and disseminate the Stockholm Convention guidelines for the use of PFOS and PFOS-related chemicals</p> <p>Implement a pilot project on BAT/BEP application for PFOS in exempted use.</p>	<p>The Stockholm Convention guidelines for the use of PFOS and PFOS-related chemicals are translated (in national language) and disseminated</p> <p>Pilot project on BAT/BEP application is implemented</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p>	<p>500 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2020-2022</p>
<p>Identification and introduction of most suitable alternatives to PFOS and PFOS-related chemicals in Georgia</p>	<p>Conduct a research on the existent alternatives to PFOS and PFOS-related chemicals used nationally and internationally</p> <p>Develop an evaluation of most feasible alternatives to be introduced in Georgia</p> <p>Implement pilot program on demonstrating switching to alternatives</p>	<p>A research on the existent alternatives on PFOS and PFOS-related chemicals used nationally and internationally is conducted</p> <p>An evaluation of most feasible alternatives to be introduced in Georgia is developed</p> <p>Pilot program on demonstrating switching to alternatives is implemented</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Scientific sector</p> <p>Private sector</p>	<p>450 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2020-2022</p>

**Table 7** Action plan for U-POPs reduction

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Improvement of waste regulation methods in order to stop open combustion or other uncontrolled combustion, including burning of landfill sites	<p>Promote introduction of modern waste management practices</p> <p>Promote Introduction of waste separation practices</p> <p>Promote introduction of the new municipal waste collection system in order to avoid the open combustion processes, including open burning processes of the landfills</p> <p>Conducting training on the municipal waste management for the respective personnel</p>	<p>Open combustion processes at the landfills are eliminated</p> <p>Waste separation system is introduced</p> <p>The waste collection systems are strengthened</p> <p>The respective personnel is trained</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Regional Development and Infrastructure of Georgia</p> <p>Municipalities</p>	1 mln USD	Donor countries and organizations	2019-2022

<p>Introducing BAT and BEP in industry</p>	<p>Selection of the individual industries for introducing BAT/BEP options</p> <p>Disseminate the information on BAT and BEP to the individual industries</p> <p>Implement pilot project on BAT/BEP application</p>	<p>Selection of the individual industries for BAT/ BEP options is conducted</p> <p>Information on BAT and BEP to the individual industries is disseminated</p> <p>The pilot project on BAT/BEP application is implemented</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	<p>2.5 mln USD</p>	<p>GEF, EU, Donor countries, private sector</p>	<p>2019-2022</p>
<p>Create monitoring/control system for U-POPs (dioxins, furans, etc.) emissions</p>	<p>Translate and disseminate of corresponding guidelines</p> <p>Improve capacities of respective public and private sector</p> <p>Promote introduction of internal monitoring system in industry</p>	<p>Respective guidelines are translated and disseminated</p> <p>Capacities of respective public and private sector are improved</p> <p>Internal monitoring system in industry is introduced</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	<p>1.5 mln USD</p>	<p>GEF, EU, Donor countries, private sector</p>	<p>2020 - 2022</p>



**Table 8** Action plan for safe management and pollution control of wastes and POPs containing stockpiles

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
<b>POPs pesticides</b>						
Removal and packaging of POPs containing pesticides stored at Iaghluja burial	Carrying out the works for removing and packaging the pesticides from Iaghluja burial	The pesticides are removed from Iaghluja burial and packaged	Ministry of Environmental Protection and Agriculture of Georgia	350 000 USD	GEF, EU, Donor countries and organizations	2019-2022
Elimination of POPs containing pesticides disposed at the Iaghluja burial and collected throughout the country	Destroying remaining stock of pesticides (cement plant in Georgia; through export to the other countries and incineration in the special furnaces; or by other methods)	Stockpiles of pesticides are destroyed	Ministry of Environmental Protection and Agriculture of Georgia  Municipalities	1.5 mln USD	GEF, EU, Donor countries and organizations	2019-2022
Improvement of Iaghluja burial status	Studying/evaluating status of the burial  Remediation of contaminated soil  Reliable isolation of Ialguja burial and etc	Ecological status of Iaghluja burial is improved	Ministry of Environmental Protection and Agriculture of Georgia	2.5 mln USD	GEF, EU, Donor countries and organizations	2019-2022
<b>PCBs</b>						

Identifying/ assessing the costs related with the destruction of PCB containing equipment	Developing the measures for the collection and disposal of PCB containing equipment in consideration of financial instruments	The costs connected with the disposal of PCB containing equipment are studied and analyzed	Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Economy and Sustainable Development of Georgia  Energy sector	250 000 USD	GEF, EU, Donor countries and organizations	2018-2021
Management of PCB stocks and Destruction of PCB containing oils	Creating a task team and practical training of team members  Arranging a temporary storage  Collecting, disposing and destroying 300 t of PCB containing oils	Task team is created  Temporary storage is arranged  300 t of PCB containing oils are destroyed	Ministry of Environmental Protection and Agriculture of Georgia  Ministry of Economy and Sustainable Development of Georgia  Energy sector	1.2 mln USD	GEF, EU, Donor countries and organizations, private sector	2019-2022
<b>POPs-PBDEs</b>						
Integrating the management of POPs-PBDEs containing materials in overall management of WEEE, end of life vehicles and other possibly impacted waste fractions.	Develop an action plan for waste management on POP-PBDEs  Evaluate of modalities for the inclusion of POPs-PBDEs containing materials in the National Waste Management Strategy and Action Plan	The action plan for waste management of POP-PBDEs is developed  The modalities for the inclusion of POPs-PBDEs containing materials in the National Waste Management Strategy and Action Plan are evaluated	Ministry of Environmental Protection and Agriculture of Georgia	250 000 USD	GEF, EU, Donor countries and organizations	2020-2022

<p>Elimination of WEEE and end-of-life vehicles containing POPs-PBDEs</p>	<p>Study/assessment of WEEE and WEEE plastics management</p> <p>Elaboration/assessment of destruction options for POPs-PBDEs containing WEEE plastics</p> <p>Exploring alternatives for disposal of polymers from end-of-life vehicles</p> <p>Pilot of implementing BAT/BEP for treatment and disposal techniques for POPs-PBDEs containing materials</p>	<p>Study/assessment of WEEE and WEEE plastics management is conducted</p> <p>Assessment of destruction options for POPs-PBDEs containing WEEE plastics is conducted/options are elaborated</p> <p>Alternatives for disposal of polymers from end-of-life vehicles are explored</p> <p>Pilot of BAT/BEP for treatment and disposal techniques for POPs-PBDEs containing materials is implemented</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	<p>1 mln USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2021-2022</p>
<b>HBCD</b>						
<p>Environmentally sound management of EPS/XPS and textiles applications containing HBCD</p>	<p>Conduct an assessment on the existence of any recycling activities of EPS/XPS and textiles containing HBCD</p> <p>Ensure storage of HBCD containing materials in an environmentally safe manner</p> <p>Conduct an assessment of destruction options for</p>	<p>An assessment on the existence of any recycling activities of EPS/XPS and textiles containing HBCD is conducted</p> <p>HBCD containing materials are stored in an environmentally safe manner</p> <p>An assessment of destruction options for</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	<p>700 000 USD</p>	<p>GEF, EU, Donor countries and organizations</p>	<p>2021-2022</p>

	HBCD containing waste Implementing BAT/BEP for treatment and disposal of HBCD containing materials	HBCD containing waste is conducted BAT/BEP for treatment and disposal of HBCD containing materials are implemented				
<b>PFOS and related chemicals</b>						
Environmental sound management of PFOS containing materials	Ensure environmental safe storage of PFOS containing materials Conduct an assessment of destruction options of PFOS containing stocks and waste Disposal of PFOS containing stockpiles (firefighting foam containing; aviation hydraulic oil; synthetic carpets) Development of guidance for collection and treatment of waste from fire incidents where PFOS containing foams are used	PFOS containing materials are stored in environmental safe manner An assessment of destruction options of PFOS containing stocks and waste is conducted PFOS containing stockpiles are disposed Guidance for collection and treatment of waste from fire incidents where PFOS containing foams are used is developed	Ministry of Environmental Protection and Agriculture of Georgia LEPL Emergency Management Agency Private sector	700 000 USD	GEF, EU, Donor countries and organizations	2021-2022

**Table 9** Action plan for POPs contaminated sites

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Setting up legislative framework for management of POPs contaminated sites	Develop legislation for the environmentally sound management of contaminated sites  Develop recultivation/remediation plans for POPs contaminated sites	Legislation for the environmentally sound management of contaminated sites is developed  Recultivation/remediation plans for POPs contaminated sites are developed	Ministry of Environmental Protection and Agriculture of Georgia  Municipalities	150 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022
Additional inventory of the POPs contaminated sites	Additional inventory of the POPs contaminated sites by regions  Training of personnel in contaminated sites management issues  Set up contaminated sites database and compile pollution map of contaminated sites	Inventory of the POPs contaminated sites by regions is conducted  Personnel is trained in contaminated sites management issues  Contaminated sites database is developed and pollution map of contaminated sites is compiled	Ministry of Environmental Protection and Agriculture of Georgia  Municipalities	250 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022
POPs contaminated site pilot remediation	Conduct of POPs contaminated site pilot remediation using modern technologies	POPs contaminated site is recovered by pilot remediation using modern technologies	Ministry of Environmental Protection and Agriculture of Georgia  Municipalities	250 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022

**Table 10** Action plan for awareness raising on POPs

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Ensure availability of the information and participation of the social groups	<p>Exchanging information with the Convention Secretariat and other relevant stakeholders</p> <p>Creating informational portal</p>	Information on POPs is regularly updated and available for the stakeholders	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Labor, Health and Social Security of Georgia</p> <p>Ministry of Economy and Sustainable Development of Georgia</p> <p>Municipalities</p> <p>NGOs</p> <p>Private sector</p>	150 000 USD	GEF, EU, Donor countries and organizations	2018 - 2022
Informing and Raising awareness of different social groups on the adverse impact of POPs on human health and environment, prepare and disseminate respective printing materials, organize	Informing and awareness raising of various social groups; preparing and disseminating of the information; organizing workshops; disseminating information through media, etc.	Awareness of the public on POPs is increased	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Labor, Health and Social Security of Georgia</p> <p>Ministry of Economy and Sustainable Development of Georgia</p> <p>NGOs</p> <p>Private sector</p>	150 000 USD	GEF, EU, Donor countries and organizations	2018 - 2022

seminars, dissemination of the information through media, etc.						
Raising awareness on POPs pesticides and other highly hazardous pesticides	<p>Providing awareness and training to farmers on: risks imposed by the uncontrolled use of pesticides; health risks imposed by pesticides; management of empty containers; good agricultural practices; alternatives available on the market to replace POPs pesticides</p> <p>Providing training to the custom officers on the list of banned/allowed pesticides to be imported/exported in order to prevent illegal traffic</p> <p>Providing training to the pesticides importers/retailers/exporters on the differences between original pesticides and counterfeit pesticides</p>	<p>Awareness and training to farmers on: risks imposed by the uncontrolled use of pesticides; health risks imposed by pesticides; management of empty containers; good agricultural practices; alternatives available on the market to replace POPs pesticides is provided</p> <p>Training to the custom officers on the list of banned/allowed pesticides to be imported/exported in order to prevent illegal traffic is provided</p> <p>Training to the pesticides importers/retailers/exporters on the differences between original pesticides and counterfeit pesticides is provided</p> <p>Awareness is created and population is educated on the health and</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Labor, Health and Social Security of Georgia</p> <p>Revenue Service of the Ministry of Finance of Georgia</p> <p>NGOs</p> <p>Private sector</p>	250 000 USD	GEF, EU, Donor countries and organizations	2018 - 2022

	<p>Creating awareness and educate the population on the health and environment risks imposed by pesticides and pesticides contaminated areas</p> <p>Creating awareness and educate the farmers on integrated pest management and organic farming</p>	<p>environment risks imposed by pesticides and pesticides contaminated areas</p> <p>Awareness is created and farmers are educated on integrated pest management and organic farming</p>				
Rising awareness on PCBs	<p>Providing training to PCBs containing equipment owners on the environmentally sound management, storage, transport and disposal of these equipment</p> <p>Providing training to the custom officers in order to increase the traceability of PCBs containing equipment and to prevent the import of such equipment in the country</p> <p>Providing training for workers handling PCBs oils and PCBs containing equipment to minimize exposure and releases to the</p>	<p>Training to PCBs containing equipment owners on the environmentally sound management, storage, transport and disposal of these equipment is provided</p> <p>Training to the custom officers in order to increase the traceability of PCBs containing equipment and to prevent the import of such equipment in the country is provided</p> <p>Training for workers handling PCBs oils and PCBs containing equipment to minimize exposure and releases to</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Ministry of Economy and Sustainable Development of Georgia</p> <p>Revenue Service of the Ministry of Finance of Georgia</p> <p>Private sector</p> <p>NGOs</p>	230 000 USD	GEF, EU, Donor countries and organizations	2018 - 2022



	environment	the environment is provided				
Enhancing awareness raising on U-POPs	<p>Informing the public and stakeholders on the environmental and health impact of UPOPs</p> <p>Developing and disseminating education and awareness materials</p> <p>Providing training for industry on BAT/BEP</p>	<p>The public and stakeholders on the environmental and health impact of UPOPs is informed</p> <p>Education and awareness materials on the health and environmental effects of UPOPs are developed and disseminated</p> <p>Training for industry on BAT/BEP is provided</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Private sector</p>	200 000 USD	GEF, EU, Donor countries and organizations	2018 - 2022
Rising awareness on POPs-PBDE	<p>Conducting awareness raising activities for industry, manufacturers, informal sector, importers, exporters, retailers, executive agencies, custom authorities and public on POPs-PBDE and hazardous chemicals in consumer products</p> <p>Communicating the challenge of POPs in the recycling flow to the population and stakeholders</p> <p>Conducting awareness</p>	<p>Awareness raising activities for industry, manufacturers, informal sector, importers, exporters, retailers, executive agencies, custom authorities and public on industrial POPs and hazardous chemicals in consumer products are conducted</p> <p>The challenge of POPs-PBDE in the recycling flow is communicated to the population and</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Revenue Service of the Ministry of Finance of Georgia</p> <p>Landfill owners</p> <p>NGOs</p>	200 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022

	<p>raising of consumers on POPs-PBDE and hazardous chemicals in articles</p> <p>Providing training for recycling sector of WEEE/end-of-life vehicles on best available techniques and best environmental practices</p>	<p>stakeholders</p> <p>Awareness raising of consumers on POPs-PBDE in articles is conducted</p> <p>Training for recycling sector of WEEE/end-of-life vehicles on best available techniques and best environmental practices are provided</p>				
Rising awareness on HBCD	<p>Providing awareness on the environmentally sound management (use, transportation, storage, disposal) of HBCD containing materials and articles</p> <p>Providing trainings for industry on best available techniques and best environmental practices for the use of HBCD/HBCD containing materials and articles</p>	<p>Awareness on the environmentally sound management (use, recycling, transport, storage, disposal) of HBCD containing materials and articles is provided</p> <p>Training for industry on best available techniques and best environmental practices for the use of HBCD/HBCD containing materials and articles are provided</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>Construction companies</p> <p>Recyclers</p>	200 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022
Rising awareness on PFOS and related chemicals	<p>Development of education materials for stakeholders</p> <p>Inform stakeholders and public on the environmental and health</p>	<p>Education materials for selected stakeholders are developed</p> <p>Stakeholders and public are informed on the</p>	<p>Ministry of Environmental Protection and Agriculture of Georgia</p> <p>LEPL Emergency Management Agency</p>	200 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022

	<p>impact, environmentally sound management and on alternatives of PFOS</p> <p>Provide training for fire fighters on PFOS containing foams, as well as on alternatives to PFOS containing foams</p> <p>Providing sustainable training/education of customs authorities on POPs and other hazardous substances in articles and products</p> <p>Providing training for industry on best available techniques and best environmental practices for the use of PFOS</p>	<p>environmental and health impact, environmentally sound management and on alternatives of PFOS</p> <p>Training for fire fighters on PFOS containing foams, as well as on alternatives to PFOS containing foams are provided</p> <p>Sustainable training/education of customs authorities on POPs and other hazardous substances in articles and products are provided</p> <p>Training for industry on best available techniques and best environmental practices for the use of PFOS are provided</p>	<p>Revenue Service of the Ministry of Finance of Georgia</p> <p>Private sector</p>			
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**Table 11** Action plan for POPs research, development and monitoring

Objectives	Activities	Expected Results	Leading and Partner Organizations (first indicated organization is leading, the rest are partners)	Expected Costs	Possible Funding Sources	Timeframe
Create possibilities for POPs monitoring	Renewing lab for the POPs monitoring Training the respective personnel	POPs monitoring possibilities are created The respective personnel and equipment is in place	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Labor, Health and Social Security of Georgia	350 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022
Promote POPs related research	Compilation of monitoring data of POPs and priority list of monitoring data Supporting/participating in international and regional POPs monitoring and research Promoting creation of POPs monitoring and research networks in Georgia Promote research on alternative chemicals, materials, products and equipment to replace and reduce the use of POPs Monitoring POPs level in POPs contaminated sites	Monitoring data of POPs and priority list of monitoring data is compiled Georgia's participation in international and regional POPs monitoring and research is ensured POPs monitoring and research networks in Georgia are organized Research on alternatives chemicals, materials, products and equipment to replace and reduce the use of POPs and POPs containing materials, products and equipment is	Ministry of Environmental Protection and Agriculture of Georgia Ministry of Labor, Health and Social Security of Georgia Municipalities Scientific sector	400 000 USD	GEF, EU, Donor countries and organizations	2020 - 2022

	<p>and stockpiles</p> <p>Monitoring the emissions and accumulation of POPs in environment and food products</p> <p>Bio-monitoring of human breast milk samples (in fat), defining the level of PBDEs</p>	<p>conducted</p> <p>POPs level in POPs contaminated sites and stockpiles is monitored</p> <p>The emissions and accumulation of POPs in environment and foods products are regularly monitored</p>				
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