

**Regional Meeting on NAPs
implementation – Lessons
learned and the way forward
Marseille, 17-18 October 2016**



Updated National Action Plans/POM of Cyprus

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Environment Officer
Cyprus
Marseille, October 2016**



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General information about Cyprus

Cyprus is located in the Eastern Mediterranean, 97 km west of Syria and 64 km south of Turkey. It is the third largest island of the Mediterranean after Sicily and Sardinia, having 9,251 square kilometers area. It has maximum length of 240 km from the eastern to the western point and maximum width of 100 km from the northern to the southern point. In the end of 2011 the population of Cyprus was 862,000* inhabitants.

Cyprus has two Mountains, Troodos to the northwest part of the island with its highest top Olympos (1,953 meters) and Pentadaktylos to the northern part of the island with its highest top Kyparisobounos (1,024 meters).



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Focus of Updated NAPs/POM

Cyprus main issues for the updated NAP are:

1. Implementation of the National Waste Prevention Programme 2015 – 2021 and the Solid Waste Management Plan
2. Controlling of all the discharges to the sea from land based sources by implementing the Industrial Emission Directive and the National Law - Water and Soil Pollution Control Law, 2002-2016
3. The collection and treatment of waste water in all agglomerations of >2000 population equivalents (p.e.)
4. Decrease of emissions of POPs, VOCs etc.



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Process followed

The NAP update was coordinated by the Department of Environment of the Ministry of Agriculture, Rural Development and Environment. Cyprus updating process was differentiated from the process which has been described in the Annex IV of the Guidance Document “UNEP (DEPI)/MED WG.393/7”. The national lead agency was the Department of Environment and no national steering committee (NSC) and technical committee (TC) were formally established. Since, Cyprus is a small island, is an EU member, almost all the required data were available in an electronic form, it was decided that the communication among the stakeholders would be done via phone calls and emails to collect the remaining data.

As has been decided during the meetings for the NAP updating process, in order to avoid duplicating the work for the implementation of NAP and MSFD, the Program of Measures prepared under the MSFD for the European countries is adopted as it is for the NAP purposes for the Ecological Objectives 5, 9 and 10. In Cyprus the Program of Measures under the MSFD was prepared by the Department of Fisheries and Marine Researches following public consultation procedures.



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Content of Cyprus Updated NAPs

Introduction	A general description of the legal framework in Cyprus (IED, Waste Directive, E-PRTR, LBS, etc)
NAP updating process	A general description of the process followed
Development of the midterm implementation benchmark	<ul style="list-style-type: none"> •National Baseline Budget (E-PRTR) •Identification and assessment of national sectors (Municipal wastewater, Municipal Solid Waste, Marine litter, Urban and Industrial Pollution, Substances that are Toxic, Persistent and liable to Bioaccumulation (TPB), POPs from industrial installations, PCBs, Dioxins/Furans, Heavy metals, Organohalogenes, Radioactive substances, Nutrients and Suspended Solids, Hazardous wastes.
Hotspots and sensitive areas analysis	Based on the Guidance Document “UNEP (DEPI)/MED WG.404/3 - Proposed updated criteria to assess hotspots and sensitive area”.
Cyprus Programme of Measures	The Cyprus Programme of Measures prepared for the implementation of Article 11 of the Marine Strategy Framework Directive (2008/56/EC), as regards Eutrophication, Contaminants and Marine Litter.



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Pollutant Release and Transfer Register of Cyprus

Τμήμα Επιθεώρησης Εργ. PRTR - Map Search

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REPUBLIC OF CYPRUS

POLLUTANT RELEASE AND TRANSFER REGISTER OF CYPRUS

ΕΛΛΗΝΙΚΟ

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- ☒ 1 Energy sector
- ☒ 2 Production and processing of metals
- ☒ 3 Mineral industry
- ☒ 4 Chemical industry
- ☒ 5 Waste and wastewater management
- ☒ 6 Paper and wood production and processing
- ☒ 7 Intensive livestock production and aquaculture
- ☒ 8 Animal and vegetable products from the food and beverage sector
- ☒ 9 Other activities

☒ Show PRTR Facilities below Threshold

☐ Show Non-PRTR Facilities

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Entrance for facility operator to submit data

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PRTR - Facility Details - Google Chrome

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POLLUTANT RELEASE AND TRANSFER REGISTER OF CYPRUS



Details

Reporting Year: 2014
Facility: ECOFUEL (CYPRUS) Ltd
Address: Vassiliko area, 7738 ZYGI, LARNAKA
Facility Type: PRTR



Facility Details

Parent Company Name: ECOFUEL (CYPRUS) Ltd
Coordinates: (33.313889°, 34.721944°)
Main Activity (NACE): 38.22 Treatment and disposal of hazardous waste

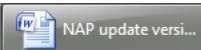
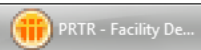
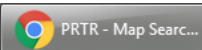
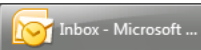
Competent Authority

Name: Department of Environment
Address: 28th October 20-22, 1411 Nicosia
Phone: +(357)22408939
Fax: +(357)22774945
E-mail: kchristofi@environment.moa.gov.cy
Contact Person: Ms. Kalliroe Christofi

Industrial Activities

Activity

Activity
1 5.(a) Installations for the recovery or disposal of hazardous waste

[Details](#) [Pollutant releases](#) [Pollutant transfers](#) [Waste transfers](#) [Confidentiality](#)

Pollutant Release and Transfer Register of Cyprus

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POLLUTANT RELEASE AND TRANSFER REGISTER OF CYPRUS



Pollutant releases

Reporting Year: 2014
Facility: ECOFUEL (CYPRUS) Ltd
Address: Vassiliko area, 7738 ZYGI, LARNAKA
Public Information: Contact person: Mr. Costas Varavas

Releases to Air

Pollutant Name	Total Quantity	Accidental Quantity	Threshold	Method	Method Used	Confidentiality
 Carbon monoxide (CO)	65.8 kg	0.00 kg	Below	Calculation	EMEP EEA Emission Inventory Guidebook 2013, Tier 1 Methodology, Chapter 1.A.2, Table 3-4, pg. 17/emission factor for CO	
 Non-methane volatile organic compounds (NMVOC)	24.9 kg	0.00 kg	Below	Calculation	EMEP EEA Emission Inventory Guidebook 2013, Tier 1 Methodology, Chapter 1.A.2, Table 3-4, pg. 17/emission factor for VOCs	
 Nitrogen oxides (NOx/NO2)	512 kg	0.00 kg	Below	Calculation	EMEP EEA Emission Inventory Guidebook 2013, Tier 1 Methodology, Chapter 1.A.2, Table 3-4, pg. 17/emission factor for NOx	
 Particulate matter (PM10)	19.9 kg	0.00 kg	Below	Calculation	EMEP EEA Emission Inventory Guidebook 2013, Tier 1 Methodology, Chapter 1.A.2, Table 3-4, pg. 17/emission factor for PM10	
 Sulphur oxides (SOx/SO2)	352 kg	0.00 kg	Below	Calculation	Sulphur content in Fuel	

Releases to Water

Pollutant Name	Total Quantity	Accidental Quantity	Threshold	Method	Method Used	Confidentiality
 Arsenic and compounds (as As)	0.92 kg	0.00 kg	Below	Measurement	ISO 11885:2009	
 Cadmium and compounds (as Cd)	0.024 kg	0.00 kg	Below	Measurement	ISO 11885:2009	
 Chromium and compounds (as Cr)	0.22 kg	0.00 kg	Below	Measurement	ISO 11885:2009	
 Copper and compounds (as Cu)	0.22 kg	0.00 kg	Below	Measurement	ISO 11885:2009	



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Hot Spots and Sensitive areas –Vasilikos Bay

Category	Weighted total	Number	Priority pressures
Hot spots (A)	132 – 107	0	
High risk areas/Hot Spots (B)	106 – 82	0	
Sensitive areas (C)	81 – 58	1* (56)	
No hotspot (D)	57 - 33	0	Industrial port, power station, cement factory, waste management facility.

Although Vasilikos Bay is categorized as an “No hotspot”, due to the fact that: a) the final score is at the borderline with category (C) “Potential hot spot/Sensitive area”, b) the Vasilikos coastal area is planned to become the Cyprus energy center, c) upcoming accumulation of more industrial facilities· by applying the precautionary principle, we will consider and treat Vasilikos Bay as a “Potential hot spot/Sensitive area” and we will reevaluate its situation on yearly basis.



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National Operational Pollution Reduction Targets

Operational targets	Sectors (solid waste, wastewater, industrial pollution etc.)	EO5	EO9	EO10
<i>Closure/remediation of the last 2 illegal solid waste dump sites by 2020</i>	<i>Solid waste</i>		X	X
<i>40% separate collection on total municipal solid waste by 2021</i>	<i>Solid waste</i>		X	X
<i>15% of organic municipal waste to collected separately by 2021</i>	<i>Solid waste</i>		X	X
<i>The collection and treatment of waste water in all agglomerations of >2000 population equivalents (p.e.) by 2027</i>	<i>UWWT Directive (91/271/EEC)</i>	X	X	X



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Priority Measures

- Minimization of groundwater nutrient loading through the implementation of national code of agricultural best practices
- Implementation of a national policy for the positioning of sea-cage farms, including a mandated minimum water column depth of 35 m to minimize high sedimentation rates, and the ban of placement over *Posidonia* meadows
- Implementation of the National Waste Prevention Programme 2015 – 2021 and the Solid Waste Management Plan
- Collection and treatment of waste water in all agglomerations of >2000 population equivalent
- Controlling all point discharge sources via discharge permits and inspections – Industrial Emission Directive
- Implementation of National Plan for POPs (EU Regulation 850/2004 - Stockholm Convention)
- Update the inventory for PCBs



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Priority Measures

- Improve the effectiveness of Collective Compliance Systems (tires, household batteries, used lubricants, waste of electric and electronic equipment, construction and demolition waste etc)
- Permitting all aquaculture facilities
- Launch and encourage participation by all contracting parties to a Mediterranean Coastal clean up day
- Promote awareness with collaboration with Municipalities for cleaning activities in riverbanks (river mouth area), where ecologically appropriate.

A great number of Measures are undertaken through various EU Directives such Industrial Emission Directive, Waste Directive, Water Framework Directive, Marine Strategy Framework Directive, Urban Wastewater Directive, Nitrates Directive etc

Marine litter

It has to be mentioned that almost all rivers which consist a major source of litter into the sea, are ending up to reservoirs and by that litter is being prevented from reaching the sea.



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List of indicators – Not an exhaustive list

Ecological Objectives	Indicators
Eutrophication	<ol style="list-style-type: none"> 1. Water column NO_3^- concentration 2. Water column NH_4^+ concentration 3. Water column PO_4^{3-} concentration 4. Water column Chlorophyll-a concentration 5. Water column dissolved oxygen
Contaminants	<ol style="list-style-type: none"> 1. Concentration of Pb, Cd, Hg, PAH in sediment 2. Concentration of Pb, Cd, Hg, PAH, PCB in <i>Mullus</i> sp. and in <i>Boops boops</i> sp.
Marine litter	<ol style="list-style-type: none"> 1. Number of items > 2.5 cm per 100 m of coastline 2. Number of items per km^2 of seafloor 3. Weight (kg) of items per km^2 of seafloor
Cross-cutting	

Project Fiches

Title of the project/or the number of projects per EO and or SAP MED sector	Objectives	Relevant Ecological Objectives		
		EO5	EO9	EO10
Implementation of the National Waste Prevention Programme 2015 – 2021 Solid Waste Management Plan	Solid waste management	X	X	X
Collection and treatment of waste water in all agglomerations of > 2000 p.e	Improvement/const ruction of WWTP	X	X	X
Program of Measures of WFD		X	X	X
Program of Measures of MSFD		X	X	X
Implementation of Industrial Emission Directive	Reduction of industrial pollution	X	X	X



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**Questions and
thank you for
your attention**

