



INZRAK

Enhanced environmental protection inspection for efficient control of air quality monitoring and of all entities under obligation within system of greenhouse gas emission allowance trading, in order to achieve better quality of air in Republic of Croatia



REPUBLIKA HRVATSKA

MINISTARSTVO ZAŠTITE
OKOLIŠA I ENERGETIKE



 **safu** | SREDIŠNJA AGENCIJA ZA
FINANCIARANJE I UGOVARANJE



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EKONERG

Energy research and Environmental Protection Institute



TOPIC 14: Delivering air quality data to EEA/EIONET

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

Ordinance on mutual information exchange and reporting on air quality and obligations for implementation of Commission's Decision 2011/850 / EU established the **competent authority and framework** for implementation of Commission's Implementing Decision of 12 December 2011 on identifying the rules for Directives 2004/107/EZ i 2008/50/EC of the European Parliament and Council regarding mutual information exchange and reporting on air quality (2011/850/EU) that prescribes e-Reporting on air quality.

The ordinance prescribes the tasks of **the Agency and other bodies** in relation to the **method, deadlines, content and data format and the way of data collection** for mutual exchange of information and reporting on air quality assessment and management.

Pursuant to the ordinance, the competent authority for the Implementation of the Commission's Decision 2011/850 / EU is the Croatian Environment and Nature Agency, HAOP (ex AZO).

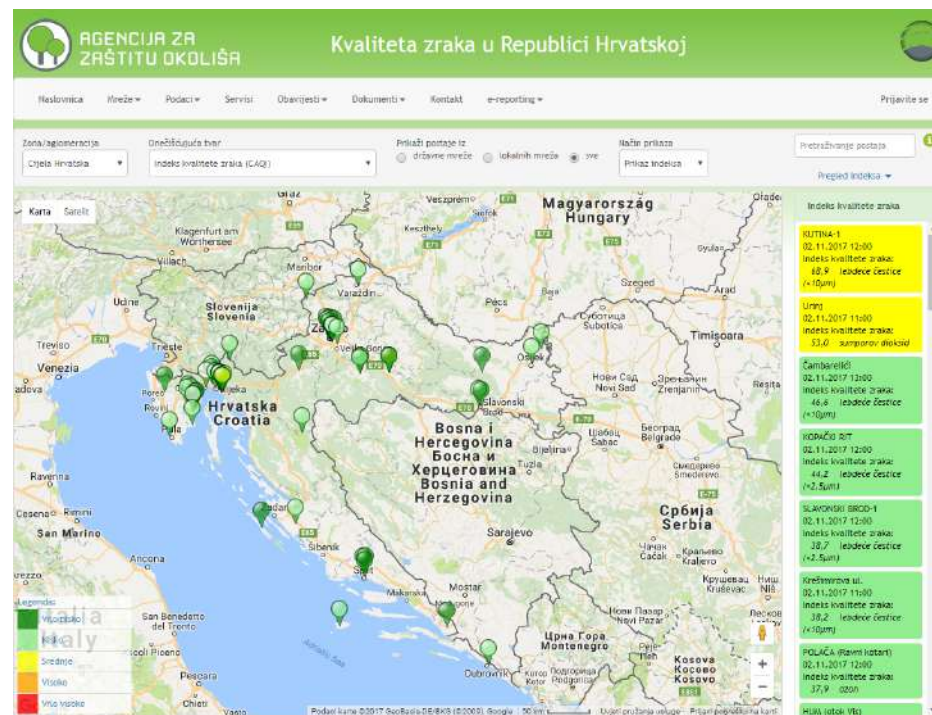
14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

To meet the goals of **e-Reporting** it is necessary to collect in the database and properly compile all the air quality data needed for exchange.

For this purpose, in 2014 the Agency developed and established the portal "**Air Quality in the Republic of Croatia**".

The Portal is located on the Agency's website and contains all data on concentrations of pollutants in the air measured in the whole territory of the Republic of Croatia.

<http://iszz.azo.hr/iskzl/index.html>



14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

The system (Portal) allows for submission of air quality information in a standardized data exchange (.xml) format to the repository of the European Commission and European Environment Agency in accordance with requirements of **CAFE and INSPIRE Directives**.

The portal fully meets the given criteria and **enables complete delivery of all air quality data to the EC**.

Thus the **official air quality data (B - G) were submitted for the first time in the EC data repository in 2014 for the year 2013**.

All data shall be submitted to the air protection information system in **electronic form** using the formats and protocols published by the Agency on its web site.

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

For information exchange and reporting on air quality assessment and management one uses data on concentrations of pollutants obtained by measurements on **measurement points specified in Articles 4 to 6 of the Regulation on the establishment of a list of measurement points for monitoring concentration of certain pollutants in the air and locations of monitoring stations in the national network for permanent air quality Monitoring (Official Gazette, No. 65/16).**

In addition to concentrations of pollutants obtained through measurements at permanent measurement points, for reporting one can also use data obtained by **indicative measurements, modeling and objective estimation techniques.**

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

Data are delivered to CDR (Central Data Repository)

<http://cdr.eionet.europa.eu/hr/eu/aqd>

That can also be accessed by European Air Quality Portal

<http://eeadmz1-cws-wp-air.azurewebsites.net/>

Officially published information on air quality are available on EEA web site.

<https://www.eea.europa.eu/themes/air/dc>

Comments and suggestions on the above mentioned web site shall be addressed to AQ IPR helpdesk [AQ IPR helpdesk](#)

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

European Air Quality Portal contains technical details and services that facilitate reporting on official air quality information to EU member states and other EEA partner countries.

<http://eeadmz1-cws-wp-air.azurewebsites.net/>

The data are submitted in accordance with **Directives 2004/107 / EC and 2008/50 / EC** of the European Parliament and of the Council, and the rules for exchange are laid down in

Commission's Implementing Decision 2011/850 / EU.

Portal je razvila i održava ga **Europska agencija za okoliš (EEA)**.

The portal has been developed and maintained by the **European Environment Agency (EEA)**.

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

Data to be submitted to EC/EEA are:

- **Preliminary data**
 - **Preliminary data on zones and agglomerations (Preliminary B)** – those are the data on limits and types of zones and agglomerations that have been established and in which the air quality assessment and management will be carried out in the following calendar year - shall be submitted no later than **31 December each year for the next calendar year**
 - **Preliminary Data on Assessment System (Preliminary C)** – those are the data on the expected levels of pollution in relation to the upper and lower thresholds and how the air quality will be monitored in the next calendar year for each pollutant within a zone and agglomeration - shall be delivered no later than **31 December each year for the following calendar year**

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- Official data (for previous calendar year):
 - **Zone and agglomeration data (B)** – those are the data on **limits** and types of zones and agglomerations in which the air quality assessment was carried out in the previous calendar year – they are submitted no later than **September 30** each year for the previous calendar year
 - **The assessment system data (C)** – those are the data on levels of pollution in relation to the upper and lower estimate thresholds and the method of air quality monitoring in the previous year for each pollutant within a given zone and agglomeration - to be submitted by September 30 at the latest for the previous calendar year

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- Official data (for previous calendar year):
 - **Network and station data (metadata) (D)** – those are the data on measurement methods at constant measurement points, their quality and traceability, and the **applied indicative measurements** – they are submitted no later than September 30 each year for the previous calendar year
 - **Data on applied modeling techniques and / or objective estimates (metadata) (D1b)** - those are the data of **applied modeling methods** and **objective evaluation techniques** – they are submitted no later than September 30 each year for the previous calendar year

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- Official data (for previous calendar year):

Original and validated data (E)

- **validated measurement data (E1a)** – they are submitted no later than **September 30** each year for the previous calendar year
- modeling data (E1b) - are submitted no later than September 30 each year for the previous calendar year (if any)
- **modeling data (E1b)** – they are submitted no later than September 30 each year for the previous calendar year (if any)
- **Up TO Date (UTD) metering data (E2a)** – they are delivered continuously every hour (sometimes Near Real Time NRT data)

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- Official data (for previous calendar year):

Statistical data (F) - not submitted but must be calculated in order to be able to determine exceedances and give an assessment

The assessment of pollution with exceedance of limit and target values (G) – those are the data on the achievement of environmental objectives (comparison with limit or target values) – they are submitted no later than **September 30** each year for the previous calendar year

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

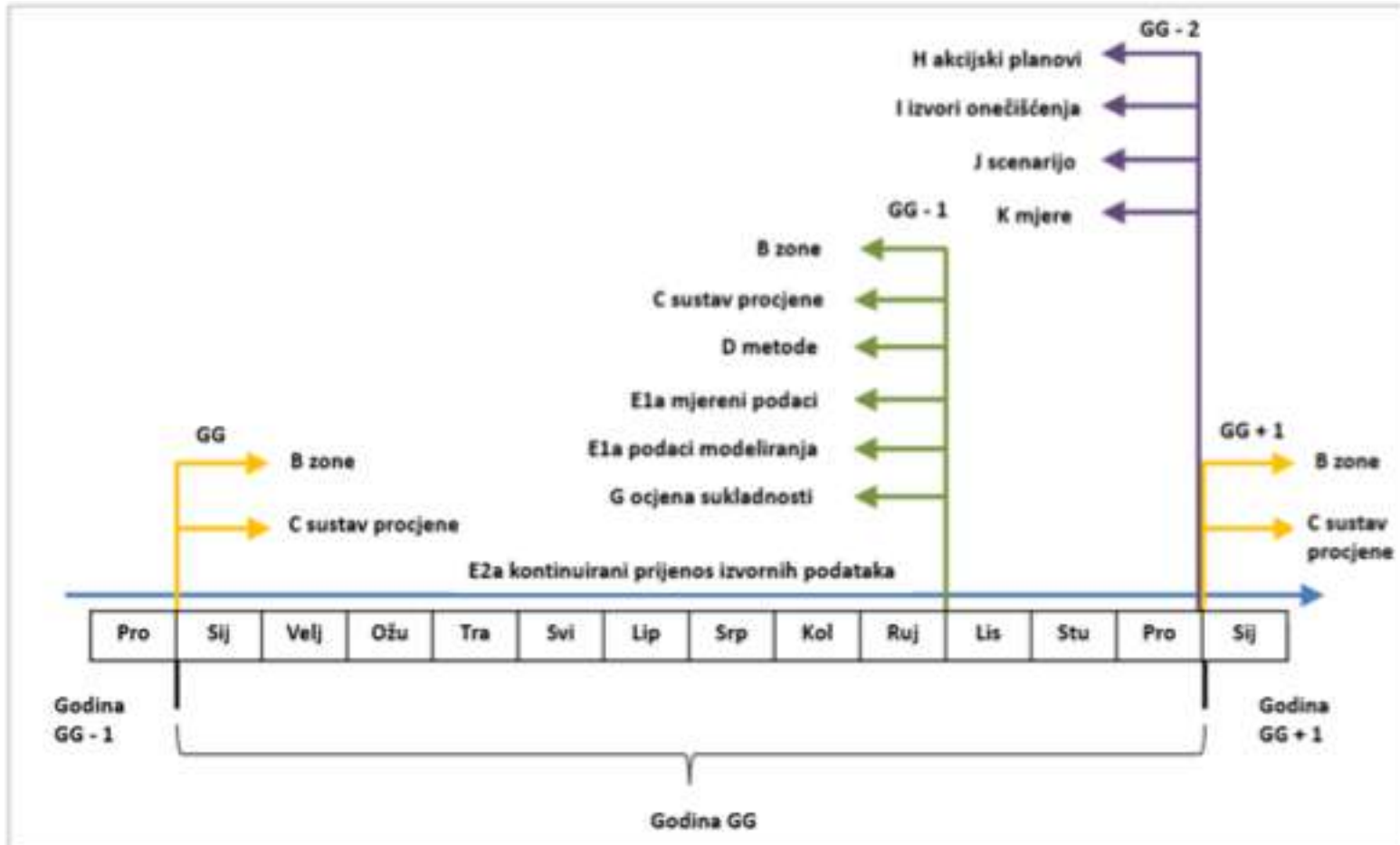
- **Submitted information on action plans:**
 - **Information on action plans for improving air quality (H)** - this is general information on action plans: plan name, year of first exceedance, responsible authority, included pollutants, plan adoption date, implementation time schedule ...
 - **Source Distribution Information (I)** - This is information about source apportionment, ie. contribution to pollution: local, regional, urban ...

14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- **Submitted information on action plans:**
 - **Information on scenario for the year of achievement (J)** - this is information about the initial and projection scenario for the year of reaching the limit value. The initial scenario is without taking measures, and the projection scenario is with the measures taken.
 - **Information on measures to improve air quality (K)** - information on measures taken to achieve limit and / or target values: type of measure, time period of measure, sectors and areas which the measure affects, emission reduction due to measure implementation and expected influence on concentrations.

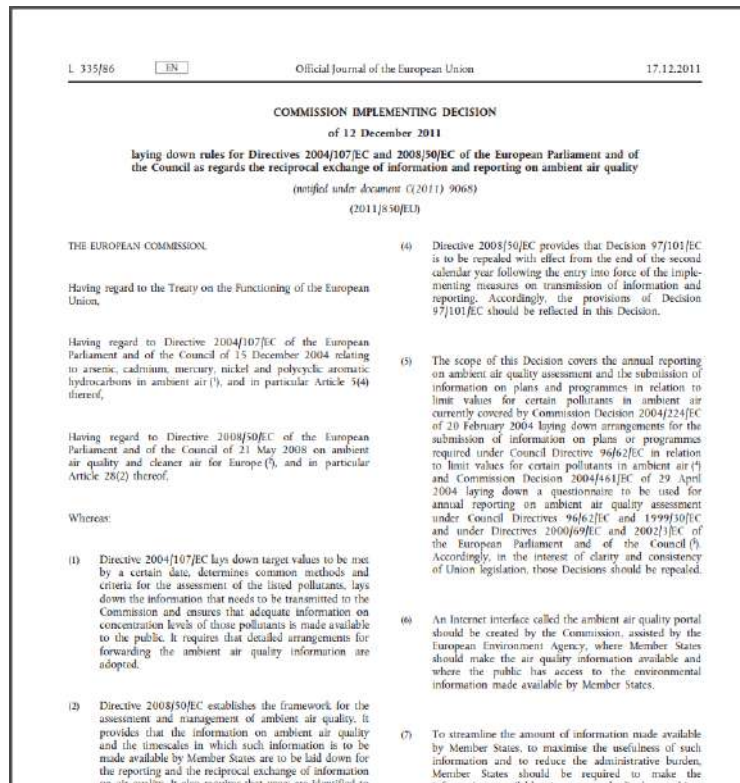
14.1 REPORTING TO EC AND EEA – GENERAL OBLIGATIONS

- Reporting obligations– timeline



14.2 EUROPEAN COMMISSION IMPLEMENTING DECISION 2011/850/EU (IPR)

- European Commission passed the Implementing Decision on 12th December 2011 2011/850/EU on the establishment of rules for the implementation of Directives 2004/107 / EC and 2008/50 / EC of the European Parliament and of the Council on the reporting by the Member States of the European Union on air quality assessment and management and mutual exchange of information about networks and stations and air quality measurements



<http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:335:0086:0106:EN:PDF>

14.2 EUROPEAN COMMISSION IMPLEMENTING DECISION 2011/850/EU (IPR)

- **Decision 2011/850 / EU also known as Implementing Provisions on Reporting (IPR) has replaced three recent air quality reporting decisions:**
 - **Council Decision 97/101 / EC** establishing mutual exchange of information and data from networks and individual stations for measurement of air pollution,
 - **Commission Decision 2004/224 / EC** on defining procedures for submission of information on **plans or programs** in relation to the limit values of certain pollutants in the air and
 - **Commission Decision 2004/461 / EC** on the establishment of a **questionnaire** for the submission of an annual air quality assessment report.

Decision 2011/850/EU, has been implemented (came into effect) **from 1st January 2014**. In other words, it is applied to information/data on air quality collected by member states since January 2013.

14.2 EUROPEAN COMMISSION IMPLEMENTING DECISION 2011/850/EU (IPR)

- IPR prescribed a new reporting mechanism, e-reporting, more recent and more modern than former reporting methods (DEM, AQ Questionnaire, NRT-data, Plans & Programs):
 - For the purpose of **rationalizing** the amount of information being disclosed, **increasing the benefits of such information** and **reducing administrative burden**, information must be prepared and delivered in a standardized machine-readable form (**XML format**) and aligned with the requirements of Directive **2007/2 / EC** on the Establishment of Spatial Information Infrastructure in the European Community (**INSPIRE**).
 - Information is delivered to the **EIONET Central Data Repository (CDR)**, accessible through the **AQ Portal** established by the EC, which is maintained and managed by the European Environment Agency (**EEA**). The portal has all the news, guidelines and instructions related to e-reporting.

14.2 EUROPEAN COMMISSION IMPLEMENTING DECISION 2011/850/EU (IPR)

Competent authority for implementation of the Commission Decision 2011/850 / EU is the Agency that conducts following activities for purposes of Decision implementation:

- **delivers the information** used for the mutual exchange of information and reporting, within the prescribed deadlines, **on behalf of the Republic of Croatia in the data repository**, established by the European Commission with the assistance of the European Environment Agency
- In the case of **updating the information**, it explains the differences between the updated and original information and the reasons for the update
- informs the European Commission of the **responsible persons**
- **publishes** the European Commission's **Guidelines** for mutual information exchange and air quality reporting on **its web sites**

14.3 PRELIMINARY DATA SUBMISSION

- **As preliminary data in EC / EEA, data B and C are submitted:**
 - **Preliminary data on zones and agglomerations (B)** – those are data on limits and types of zones and agglomerations that have been established and in which the air quality assessment and management will be carried out in the following calendar year - shall be submitted by **31 December each year for the following calendar year**
 - **Preliminary data on the assessment system (C)** – those are data on expected levels of pollution in relation to the upper and lower thresholds and how the air quality will be monitored in the next calendar year for each pollutant within a given zone and agglomeration - delivered not later than **31 December each year for the following calendar year**
 - -

14.3 PRELIMINARY DATA SUBMISSION

Article 7 of Decision 2011/850 / EU states that Member States will make available information on the **assessment system** to be applied for each zone / agglomeration and pollutant in the following calendar year.

The objective of the assessment system is to compare pollution levels with environmental objectives (limit and target values) and based on these levels to establish a proportional regime or assessment system for the purpose of future air quality management.

The assessment system (regime) may include different types of estimates:

- Fixed measurements
- Indicative measurements
- Modelling
- Objective assessment
- or their combination
- The choice of assessment type will depend on the observed pollution levels of in relation to the estimation thresholds

14.3 PRELIMINARY DATA SUBMISSION

Assessment system options allowed on the basis of preliminary estimates of pollutant levels

Pollutant	Pollution level	Observed period	Assessment system (regime)
SO ₂ , NO ₂ , NO _x , PM ₁₀ , PM _{2.5} , Pb, C ₆ H ₆ , CO As, Cd, Ni, BaP	Pollution level > UET	At least three years from previous five years	Fixed measurements, possibly supplemented by modeling techniques and / or indicative measurements, will be used.
SO ₂ , NO ₂ , NO _x , PM ₁₀ , PM _{2.5} , Pb, C ₆ H ₆ , CO As, Cd, Ni, BaP	Pollution level ≤ UET and > LET	At least three years from previous five years	Fixed measurements can be combined with modeling techniques and / or indicative measurements.
SO ₂ , NO ₂ , NO _x , PM ₁₀ , PM _{2.5} , Pb, C ₆ H ₆ , CO As, Cd, Ni, BaP	Pollution level ≤ LET	At least three years from previous five years	Modeling techniques or objective assessment techniques are sufficient.
O ₃	Pollution level > LG	Any of previous five years	Fixed measurements, possibly supplemented by modeling techniques and / or indicative measurements, will be used.

UET: upper estimate threshold; LET: lower estimate threshold; LG: long-term goal

14.3 PRELIMINARY DATA SUBMISSION

The levels of pollution are assessed against the upper and lower thresholds of the assessment and the method by which the assessment will be given.

The data are similar to the data for official delivery (data C from September for the previous year) - they need to be updated due to e.g. introducing a new measurement point on a new or already existing station - in that case, updated metadata (data D) should be delivered so that also UTD data (from new measurement points) can be sent.

Oznaka zone / aglomeracije	Broj sati prekor. u kal. god.	Broj dana prekoračenja u kalendarskoj godini				Srednja godišnja vrijednost									
		NO	SO	CO	PM	O	NO	PM	PM .	Pb u PM	C H	Cd u PM	As u PM	Ni u PM	BaP ^{uv} u PM
Zagreb	>GPP	<DPP	<DPP	>GPP	>DC	>GPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP	
Osijek	<GPP	<DPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA	
Rijeka	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA	
Split	<GPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA	
Kontinentalna Hrvatska	<DPP	<DPP	<DPP	>GPP	>DC	<DPP	<GPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	
Industrijska zona	<DPP	>GPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP	
Lika, Gorski kotar i Primorje	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	
Istra	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	
Dalmacija	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	

Legenda:

DPP – donji prag procjene,

GPP – gornji prag procjene,

DC – dugoročni cilj za prizemni ozon,



Fiksna mjerenja

Indikativna mjerenja

Objektivna procjena



14.3 PRELIMINARY DATA SUBMISSION

On the HAOP portal Air quality in the Republic of Croatia is marked with:
Observed data are the result of the estimate for the following year and are subject to modifications

Sustav procjenjivanja

Godina * 2017 Cilj zaštite * Zdravlje

Razina onečišćenosti zraka po onečišćujućim tvarima s obzirom na zaštitu zdravlja ljudi

Promatrani podaci rezultat su procjene za 2017. godinu te su podložni izmjenama

Godina izrade studije 2013 Adresa dokumentacije o klasifikaciji
<http://iszz.azo.hr/iskzil/godizvrpt.htm?pid=0&t=5>



Oznaka zone/aglomeracije	Broj sati prekoračenja u kalendarskoj godini	Broj dana prekoračenja u kalendarskoj godini				Srednja godišnja vrijednost								
		NO ₂	SO ₂	CO	PM ₁₀	O ₃	NO ₂	PM ₁₀	PM _{2.5}	Pb u PM ₁₀	C ₆ H ₆	Cd u PM ₁₀	As u PM ₁₀	Ni u PM ₁₀
Zagreb	>GPP	<DPP	<DPP	>GPP	>DC	>GPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP
Ostijek	<GPP	<DPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Rijeka	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Split	<GPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Kontinentalna Hrvatska	<DPP	<DPP	<DPP	>GPP	>DC	<DPP	<GPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Industrijska zona	<DPP	>GPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP
Lika, Gorski kotar i Primorje	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Istra	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Dalmacija	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP

14.4 OFFICIAL DATA SUBMISSION

- **Official air quality data to be submitted no later than 30 September each year for the previous calendar year:**
 - Zone and Agglomeration Data (B)
 - Assessment System Data (C)
 - Network and Station Data (metadata) (D)
 - Data on applied modeling techniques and / or objective estimates (metadata) (D1b)
 - validated measurement data (E1a)
 - modeling data (E1b) (if any)
 - Pollution assessment with exceedance of limit values and target values (G)
 - Ocjena onečišćenosti sa prekoračenjima graničnih i ciljnih vrijednosti (G)

14.4 OFFICIAL DATA SUBMISSION

- **Data on zones and agglomerations (B)**

– data on limits and types of zones and agglomerations in which the air quality assessment was carried out in the previous calendar year



14.4 OFFICIAL DATA SUBMISSION

- Data on Assessment System (C) - Pollution Levels in relation to the upper and lower assessment thresholds and the method of air quality monitoring in the previous year for each pollutant within a given zone and agglomeration**

Oznaka zone / aglomeracije	Broj sati prekor. u kal. god.	Broj dana prekoračenja u kalendarskoj godini				Srednja godišnja vrijednost								
	NO	SO	CO	PM	O	NO	PM	PM .	Pb u PM	C H	Cd u PM	As u PM	Ni u PM	BaP u PM
Zagreb	>GPP	<DPP	<DPP	>GPP	>DC	>GPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP
Osijek	<GPP	<DPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Rijeka	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Split	<GPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	NA
Kontinentalna Hrvatska	<DPP	<DPP	<DPP	>GPP	>DC	<DPP	<GPP	<GPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Industrijska zona	<DPP	>GPP	<DPP	>GPP	>DC	<DPP	>GPP	>GPP	<DPP	>GPP	<DPP	<DPP	<DPP	>GPP
Lika, Gorski kotar i Primorje	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Istra	<DPP	<DPP	<DPP	<GPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP
Dalmacija	<DPP	<DPP	<DPP	<DPP	>DC	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP	<DPP

14.4 OFFICIAL DATA SUBMISSION

- **Data on networks and stations (metadata) (D) - basic station data**

Detaljni podaci o postaji ZAGREB-1

Državna mreža za trajno praćenje kvalitete zraka / ZAGREB-1 / ZAGREB-1 - Detaljni podaci o postaji

Osnovni podaci

Ime postaje

ZAGREB-1

Mreža

Državna mreža za trajno praćenje kvalitete zraka

Grad

Zagreb

Zona/aglomeracija

Zagreb

Opis lokacije

.

Nacionalni ili lokalni broj ili oznaka

ZAG001

Kod postaje

RH0101

EOI kod

HR0007A

OIB stručne institucije koja odgovara za postaju

74660437164

Ime stručne institucije koja odgovara za postaju

DRŽAVNI HIDROMETEOROLOŠKI
ZAVOD, GRIČ 3, GRAD ZAGREB

Tijelo ili programi kojima se dostavljaju podaci

Ministarstvo zaštite okoliša i prirode, Hrvatska agencija za okoliš i prirodu, Europska komisija

Ciljevi mjerenja

Procijena utjecaja na zdravlje ljudi i okoliš, praćenje trenda

Osnovni podaci

Klasifikacija postaje

Meteorološki parametri

Slika postaje

Geografske koordinate

Mjerne metode

Izmjene

Posljednje izmjene kreirao

vvađić

Posljednja izmjena

16.12.2016 09:23

14.4 OFFICIAL DATA SUBMISSION

- Data on networks and stations (metadata) (D) – station classification

Detaljni podaci o postaji ZAGREB-1

Državna mreža za trajno praćenje kvalitete zraka / ZAGREB-1 / ZAGREB-1 - Detaljni podaci o postaji

Klasifikacija postaje

Tip područja <input type="text" value="Gradska"/>	Tip postaje u odnosu na izvor emisija <input type="text" value="Prometna"/>	Glavni izvori emisija <input type="text"/>
Područje za koje je postaje reprezentativna <input type="text"/>	Lokalno područje <input type="text"/>	Regionalno područje <input type="text"/>

Gradske i prigradske postaje

Broj stanovnika grada/naselja

Prometne postaje

Procijenjena količina prometa (broj/dan) <input type="text" value="0"/>	Udaljenost od kamenog ruba pločnika (m) <input type="text" value="5"/>	Udio teških motornih vozila u prometu (%) <input type="text" value="0"/>
Brzina prometa (km/h) <input type="text" value="0"/>	Udaljenost do fasade zgrade (m) <input type="text" value="30"/>	Visina zgrade (m) <input type="text" value="0"/>
Širina prometnice/ulice (m) <input type="text" value="0"/>		

Osnovni podaci

Klasifikacija postaje

Meteorološki parametri

Slika postaje

Geografske koordinate

Mjerne metode


Izmjene

Posljednje izmjene kreirao

Posljednja izmjena

14.4 OFFICIAL DATA SUBMISSION

- **Data on networks and stations (metadata) (D) – measurement methods**


AGENCIJA ZA ZAŠTITU OKOLIŠA
Kvaliteta zraka u Republici Hrvatskoj

[Naslovnica](#) | [Mreže](#) | [Podaci](#) | [Servisi](#) | [Obavijesti](#) | [Dokumenti](#) | [Kontakt](#) | [e-reporting](#) | [Prijavite se](#)

Detaljni podaci o postaji ZAGREB-1

Državna mreža za trajno praćenje kvalitete zraka / ZAGREB-1 / ZAGREB-1 - Detaljni podaci o postaji

Mjerne metode

18

Onečišćujuća tvar	Mjerna oprema	Tip mjerenja
SO ₂ - sumporov dioksid (µg/m ³)	Horiba model APSA 360 SO2 analyser	Automatski analizator
NO ₂ - dušikov dioksid (µg/m ³)	Horiba model APNA 360 NOx analyser	Automatski analizator
NO _x izraženi kao NO ₂ - dušikovi oksidi (µg/m ³)	Horiba model APNA 360 NOx analyser	Automatski analizator
CO - ugljikov monoksid (mg/m ³)	Horiba model APMA 360 CO analyser	Automatski analizator
benzen (µg/m ³)	airmoVOC BTX	Automatski analizator
PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Other	Aktivno sakupljanje
PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Thermo Andersen ESM FH 62 I-R	Automatski analizator
Pb u PM ₁₀ - olovo u PM10 (µg/m ³)	Unknown	Aktivno sakupljanje
Cd u PM ₁₀ - kadmij u PM10 (ng/m ³)	Unknown	Aktivno sakupljanje
As u PM ₁₀ - arsen u PM10 (ng/m ³)	Unknown	Aktivno sakupljanje
Ni u PM ₁₀ - nikal u PM10 (ng/m ³)	Unknown	Aktivno sakupljanje

Osnovni podaci

Klasifikacija postaje

Meteorološki parametri

Slika postaje

Geografske koordinate

Mjerne metode

Izmjene

Posljednje izmjene kreirao

vvd/c

Posljednja izmjena

16.12.2016 09:23

14.4 OFFICIAL DATA SUBMISSION

- Data on networks and stations (metadata)(D) - single measurement methods

Mjerne metode

Tablica

Oneišćujuća tvar
SO₂ - sumporov dioksid (µg/m³)

Vrsta mjerenja
Indikativna mjerenja

Tip mjerne metode (automatsko mjerenje)
UV fluorescence

Tip mjerne metode (uzorkovanje)

Opis mjerne metode
UV fluorescence

Druge mjerne metode

Mjerna oprema
Horiba model APSA 360 SO₂ analyser

Uzorkovanje - mjerna oprema

Granica detekcije
5,02

Mjerna jedinica granice detekcije
Micrograms per square metre per day

Dokaz istovjetnosti
Reference method used, demonstration not necessary.

Adresa dokumentacije za dokaz istovjetnosti
NA

Adresa dokumentacije o procjeni nesigurnosti
NA

Trajanje uzorkovanja
1

Mjerna jedinica trajanja uzorkovanja
Hour

Učestalost uzorkovanja
1

Mjerna jedinica učestalosti uzorkovanja
Hour

Unos podataka
• Satni validirani podaci

Visina mjesta uzorkovanja
4

Vrijeme početka rada
11.02.2003

Vrijeme završetka rada

Aktivna

Koristi se u sustavu procjene

e-reporting

Gravimetrija

Izvor podataka za izračun prekoračenja za e-reporting
Satni validirani podaci

Tip podatka koji se šalje u e-reporting
Satni validirani podaci

Tip mjerenja
Automatski analizator

Tip mjerne metode (analiza)

Druga mjerna oprema

Vrijeme usrednjavanja mjerenih podataka
Hourly average/mean

Cilj

- Alert threshold (ALT) - Tri uzastopna sata u prekoračenju, Zdravlje
- Limit Value (LV) - Broj sati prekoračenja u

14.4 OFFICIAL DATA SUBMISSION

- Data on applied techniques of objective assessment (metadata) (D1b)

Objektivne procjene

Nova objektivna procjena Spremi Obriši Tablica

Naziv * **Opis ***

Objektivna ocjena kvalitete zraka u zonama Republike Hrvatske za 2016. godinu Objektivna procjena 2016 (objective estimation) CO

Web adresa dokumenta objektivne procjene * **Datum izrade dokumenta objektivne procjene ***

<http://iszz.azo.hr/iskl/godizvrpt.html?pid=0&t=5> 18.09.2017

Postaje korištene za izradu objektivne procjene *

-

Vrijednost vremenske rezolucije * **Vremenska rezolucija *** **Prostorna rezolucija (npr. 1x1 km) ***

1 Year 50x50

Čilj kvalitete podataka: procjena nesigurnosti * **Web adresa dokumentacije o osiguranju nadzora kvalitete *** **Opis dokumentacije o osiguranju nadzora kvalitete ***

NA NA -

Odgovorno tijelo * **Odgovorna osoba ***

DRŽAVNI HIDROMETEOROLOŠKI Sonja Vidić

Onečišćujuće tvari **cijevi**

SO₂ - sumporov dioksid (µg/m³)
 NO₂ - dušikov dioksid (µg/m³)
 NO_x izraženi kao NO_x - dušikovi oksidi (µg/m³)
 O₃ - ozon (µg/m³)
 CO - ugljikov monoksid (mg/m³)
 benzen (µg/m³)
 PM₁₀ - lebdeće čestice (<10µm) (µg/m³)
 PM_{2.5} - lebdeće čestice (<2.5µm) (µg/m³)
 Pb u PM₁₀ - olovo u PM10 (µg/m³)
 Cd u PM₁₀ - kadmij u PM10 (ng/m³)

Limit Value (LV) - Broj sati prekoračenja u kalendarskoj godini, Zdravlje
 Limit Value (LV) - Broj dana prekoračenja u kalendarskoj godini, Zdravlje
 Limit Value (LV) - Srednja godišnja vrijednost, Zdravlje
 Target Value (TV) - Broj dana prekoračenja usrednjen na 3 kalendarske godine, Zdravlje
 Target Value (TV) - Srednja godišnja vrijednost, Zdravlje
 Critical level (CL) - AOT40 za zaštitu vegetacije, Vegetacija
 Critical level (CL) - Zimska srednja vrijednost, Vegetacija
 Critical level (CL) - Srednja godišnja vrijednost, Vegetacija
 Long term objective (LTO) - AOT40 za zaštitu vegetacije, Vegetacija
 Target Value (TV) - Srednja godišnja vrijednost, Vegetacija

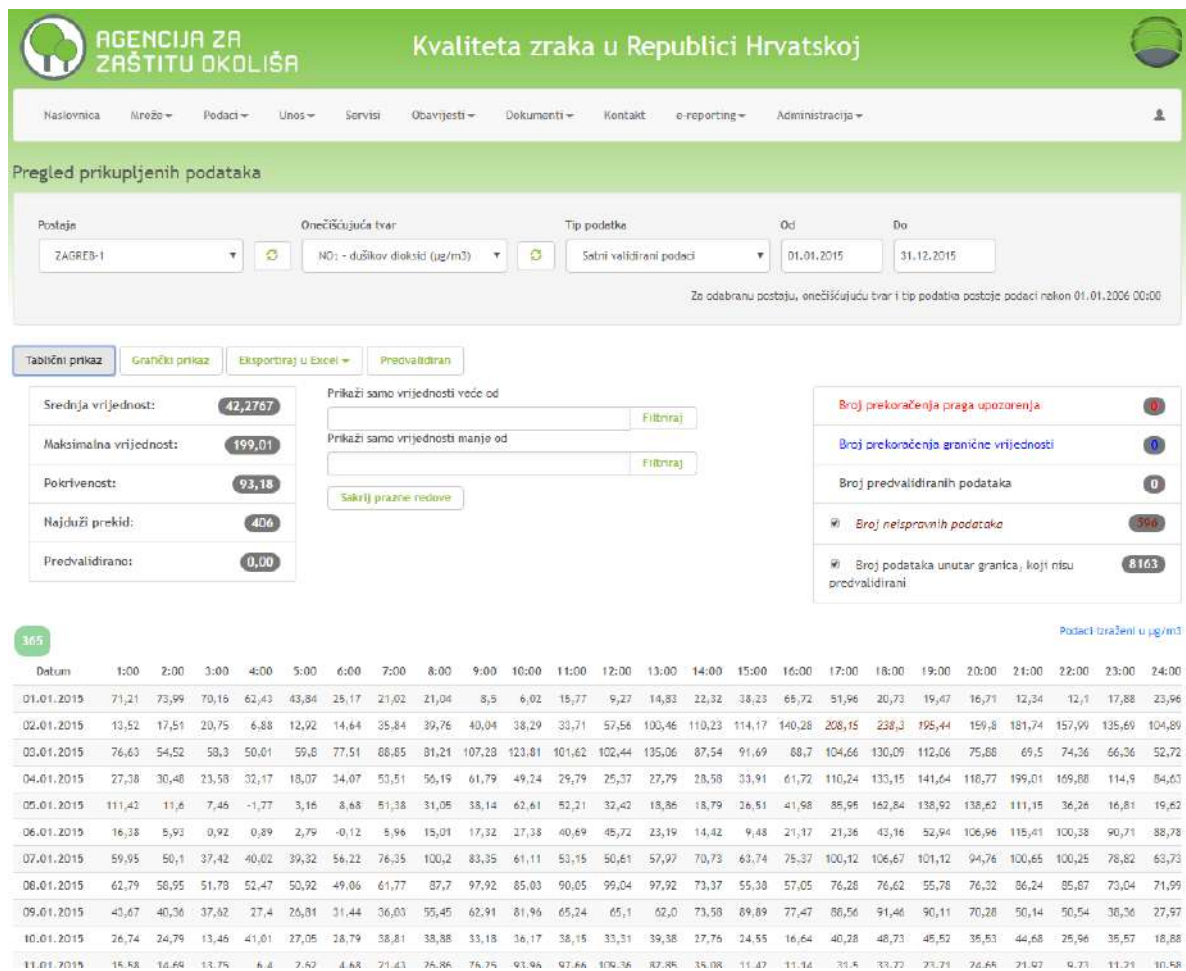
Zone/aglomeracije **Datum od *** **Datum do**

01.01.2016 31.12.2016

Zagreb
 Osijek
 Rijeka
 Split
 Kontinentalna Hrvatska
 Industrijska zona
 Lika, Oorski kotar i Primorje
 Istra
 Dalmacija

14.4 OFFICIAL DATA SUBMISSION

Validated measurement data (E1a)



14.4 OFFICIAL DATA SUBMISSION

Statistical data (F) – are not delivered (EEA does not consider those) but have to be calculated in order to determine exceedances and make an estimate

NO ₂ (µg/m ³)								
Zona / Aglomeracija	Mjerna postaja / Modeliranje	1-satne koncentracije						Ocjena onečišćenosti (sukladnosti)
		OP %	C _{godina}	C _{max} *	C _{99,99} * max. 19 sat	broj sati > GV	broj sati > PU	
HR ZG	Zagreb-1	93	42	199	163	0	0	
	Zagreb-3	95	26	137	112	0	0	
HR OS	Osijek-1	91	23	166	113	0	0	
HR RI	Rijeka-2	95	13	115	77	0	0	
HR ST	Kaštel Sućurac	87	18	111	80	0	0	
	Split-1	96	24	134	114	0	0	
HR 1	Desinić	69	7	49	36	0	0	
HR 2	Slavonski Brod-1	96	16	127	93	0	0	
HR 4	Pula Fižela	95	11	82	63	0	0	
HR 5	Žarkovica (Dub.)	60	3	81	23	0	0	

14.4 OFFICIAL DATA SUBMISSION

Statistical data (F) – are not delivered (EEA does not consider those) but have to be calculated in order to determine exceedances and make an estimate

PM ₁₀ i PM _{2,5} (µg/m ³)										
Zona / Aglomeracija	Mjerna postaja / Modeliranje	Onečišćujuća tvar	Tip mjerenja	OP %	1-satne konc.	24-satne koncentracije				Ocjena onečišćenosti (sukladnosti)
					C _{godina}	C _{godina}	C _{max} *	C _{90.4} = max. 36 dan	broj dana	
HR ZG	Zagreb-1	PM ₁₀	grav.	100	NP	33	167	62	47	
	Zagreb-1	PM ₁₀	aut.	97	38	NP	211	71	77	
	Zagreb-3	PM ₁₀	aut.	92	45	NP	233	88	94	
	Zagreb-3	PM ₁₀	grav.	100	NP	35	156	70	70	
	Zagreb PPI PM _{2,5}	PM _{2,5}	grav.	100	NP	21	NP	NP	NP	
	Velika Gorica	PM _{2,5}	grav.	62	NP	27	NP	NP	NP	
HR OS	Osijek-1	PM ₁₀	aut.	85	39	NP	121	63	60	
HR RI	Rijeka-2	PM ₁₀	aut.	92	18	NP	84	32	2	
	Rijeka-2	PM _{2,5}	grav.	62	NP	13	NP	NP	NP	
HR ST	Split-1	PM ₁₀	grav.	100	NP	19	133	32	4	
	Split-1	PM _{2,5}	grav.	93	NP	11	NP	NP	NP	
HR 1	Desinić	PM ₁₀	aut.	88	16	NP	59	27	5	
	Desinić	PM _{2,5}	aut.	88	14	NP	NP	NP	NP	
	Kopački rit	PM ₁₀	aut.	99	23	NP	84	39	17	
	Kopački rit	PM _{2,5}	aut.	99	17	NP	NP	NP	NP	
HR 2	Kutina-1	PM ₁₀	aut.	86	45	NP	165	79	100	
	Sisak-1	PM ₁₀	aut.	95	37	37	145	74	71	
	Sisak-1	PM ₁₀	grav.	95	NP	37	135	73	67	
	Slavonski Brod-1	PM _{2,5}	aut.	99	37	NP	NP	NP	NP	
	Slavonski Brod-1	PM _{2,5}	grav.	100	NP	36	NP	NP	NP	
HR 3	Plitvička jezera	PM ₁₀	aut.	78	14	NP	51	24	1	
	Plitvička jezera	PM _{2,5}	aut.	78	9	NP	NP	NP	NP	
	Plitvička jezera	PM _{2,5}	grav.	100	NP	9	NP	NP	NP	
HR 4	Višnjan	PM ₁₀	aut.	88	17	NP	75	30	4	
	Višnjan	PM _{2,5}	aut.	88	9	NP	NP	NP	NP	
HR 5	Žarkovica (Dub.)	PM ₁₀	aut.	76	13	NP	51	22	1	
	Žarkovica (Dub.)	PM _{2,5}	aut.	76	8	NP	NP	NP	NP	

14.4 OFFICIAL DATA SUBMISSION

Pollution estimate (G) – achievement of environmental objectives - with exceedance of limit values and target values (comparison with limit or target values)

The assessment of zone and agglomeration pollution for the previous calendar year (conformity assessment with environmental objectives as laid down in Directives 2008/50 / EC, 2004/107 / EC) **shall be determined in accordance with the list of measurement points laid down in Article 4 of the Regulation** on the establishment of measurement points for concentration monitoring of individual pollutants in the air and the location of monitoring stations in the national network for permanent air quality monitoring.

14.4 OFFICIAL DATA SUBMISSION

Pollution assessment (G)

For this purpose, a **detailed analysis and processing** of the data from the measurement points is performed, which are **determined by the Regulation** for defining the list of measurement points for monitoring concentrations of air pollutants: **sulfur dioxide, nitrogen dioxide and nitrogen oxides, floating particles (PM10 and PM2,5), lead, benzene, carbon monoxide, ground-level ozone, arsenic, cadmium, mercury, nickel, benzo (a) pyrene and other polycyclic aromatic hydrocarbons in the air.**

The pollution assessment (compliance) of zones and agglomerations **obtained by air quality measurements** may be **supplemented by modeling data, objective estimate and indicative measurements** in accordance with certain criteria. Thus, in estimating the pollution of zones and agglomerations in 2015, besides **measurement data**, data **obtained by an objective assessment** made by Croatian Meteorological and Hydrological Service was also used.

14.4 OFFICIAL DATA SUBMISSION

- **Pollution assessment (G)** – meeting environmental goals
Example – submitted pollution assessment for PM₁₀

Postizanje ciljeva zaštite okoliša

Godina * 2015 Zona/aglomeracija Onečišćujuća tvar PM₁₀ - lebdeće čestice (<10µm) Provjereni zapisi Sve Prokoraženja Sve

Preuzmi podatke

18 Pretraživanje

Zona/aglomeracija	Onečišćujuća tvar	Tip	Vrsta mjerenja	Postizanje praga procjene	Broj prekoračenja	Srednja vrijednost	Prekoračenje	Postaja/Model/Obj.proc.	Provjereno
Zagreb	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	>GPP		35,48	Ne	ZAGREB-3	Da
Osijek	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	>GPP		38,73	Ne	OSIJEK-1	Da
Rijeka	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	<DPP		18,23	Ne	RIJEKA-2	Da
Split	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	<DPP		19,27	Ne	Split-1	Da
Kontinentalna Hrvatska	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	<GPP		22,55	Ne	KOPAČKI RIT	Da
Industrijska zona	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	>GPP		44,57	Da	KUTINA-1	Da
Lika, Gorski kotar i Primorje	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Indikativna mjerenja	<DPP		13,88	Ne	PLITVIČKA JEZERA	Da
Istra	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Fiksna mjerenja	<DPP		16,51	Ne	VIŠNJAN	Da
Dalmacija	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Srednja godišnja vrijednost	Indikativna mjerenja	<DPP		13,48	Ne	ŽARKOVIĆA (Dubrovnik)	Da
Zagreb	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	>GPP	70		Da	ZAGREB-3	Da
Osijek	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	>GPP	61		Da	OSIJEK-1	Da
Rijeka	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	<GPP	2		Ne	RIJEKA-2	Da
Split	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	<GPP	4		Ne	Split-1	Da
Kontinentalna Hrvatska	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	>GPP	17		Ne	KOPAČKI RIT	Da
Industrijska zona	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	>GPP	101		Da	KUTINA-1	Da
Lika, Gorski kotar i Primorje	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Indikativna mjerenja	<DPP	1		Ne	PLITVIČKA JEZERA	Da
Istra	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Fiksna mjerenja	<GPP	4		Ne	VIŠNJAN	Da
Dalmacija	PM ₁₀ - lebdeće čestice (<10µm) (µg/m ³)	Broj dana prekoračenja u kalendarskoj godini	Indikativna mjerenja	<DPP	1		Ne	ŽARKOVIĆA (Dubrovnik)	Da

14.4 OFFICIAL DATA SUBMISSION

Exceedance of limit and target values from measurement sites for pollution assessment of zones and agglomerations in 2015

Zona / Aglomeracija	Oznaka zone / aglomer.	Onečišćujuća tvar	Mjerno mjesto prekoračenja	Obuhvat podataka: godina ili ljeto/zima		Srednja godišnja vrijednost	Srednja godišnja vrijednost (zaokružena)	Broj dana > GV	Broj dana > CV
Zagreb	HR ZG	NO ₂	Zagreb-1	93,2		42,3	42		
		PM ₁₀	Zagreb-1 (grav.)	100,0				47	
			Zagreb-3 (grav.)	100,0				70	
		B(a)P u PM ₁₀	Zagreb-1 (grav.)	100,0		1,831	2		
			Zagreb-3 (grav.)	100,0		2,637	3		
O ₃	Zagreb-3	100	94				29		
Osijek	HR OS	PM ₁₀	Osijek-1	87,8				60	
Rijeka	HR RI	O ₃	Rijeka-2	100	92				33
Kontinentalna Hrvatska	HR 1	O ₃	Desinić	99	85				39
Industrijska zona	HR 2	PM ₁₀	Kutina-1	90,4			45	100	
		PM ₁₀	Sisak-1 (grav.)	90,4				67	
		B(a)P u PM ₁₀	Sisak-1 (grav.)	95,0		2,943	3		
		PM _{2,5}	Slavonski Brod-1	99		35,96	36		
		benzen	Sisak-1	85,6		6,6	7		
Lika, Gorski kotar i Primorje	HR 3	O ₃	Parg	68	89				33
Istra	HR 4	O ₃	Pula Fižela	96	83				87
Dalmacija	HR 5	O ₃	Hum (Vis)	98	78				75
			Žarkovica	73	79				36

14.4 OFFICIAL DATA SUBMISSION

Exceedance of limit values and target values in 2015 in agglomerations

In Zagreb agglomeration, the mean annual **NO₂** value exceeded the limit value on one monitoring station (Zagreb-1). 24-hour concentrations of **PM₁₀** exceeded the limit value at two monitoring stations (Zagreb-1, 47 days and Zagreb-3, 70 days). The mean annual value of **BaP u PM₁₀** exceeded the limit value on two monitoring stations (Zagreb-1 and Zagreb-3). The maximum daily 8-hour **ozone** concentrations exceeded the target value at one monitoring station (Zagreb-3, 28 days).

In Osijek agglomeration, the 24-hour **PM₁₀** concentrations exceeded the limit value at one monitoring station (Osijek-1, 60 days).

In Rijeka agglomeration, the maximum daily 8-hour **ozone** concentrations exceeded the target value at one monitoring station (Rijeka-2, 33 days).

14.4 OFFICIAL DATA SUBMISSION

Exceedance of limit values and target values in 2015 in zones

In continental Croatia zone, the maximum daily 8-hour **ozone** concentrations exceeded the target value at one monitoring station (Desinić, 39 days).

In the Industrial zone, 24-hour **PM₁₀** concentrations exceeded the limit value at two monitoring stations (Sisak-1, 67 days and Kutina-1, 100 days). The mean annual value of BaP in **PM₁₀** and benzene exceeded the limit value at one monitoring station (Sisak-1). The mean annual **PM_{2,5}** value exceeded the limit value at one monitoring station (Slavonski Brod-1).

In Lika, Gorski Kotar and Primorje zone, maximum daily 8-hour ozone concentrations exceeded the target value at one monitoring station (Parg, 33 days).

14.4 OFFICIAL DATA SUBMISSION

Exceedance of limit values and target values in 2015 in zones

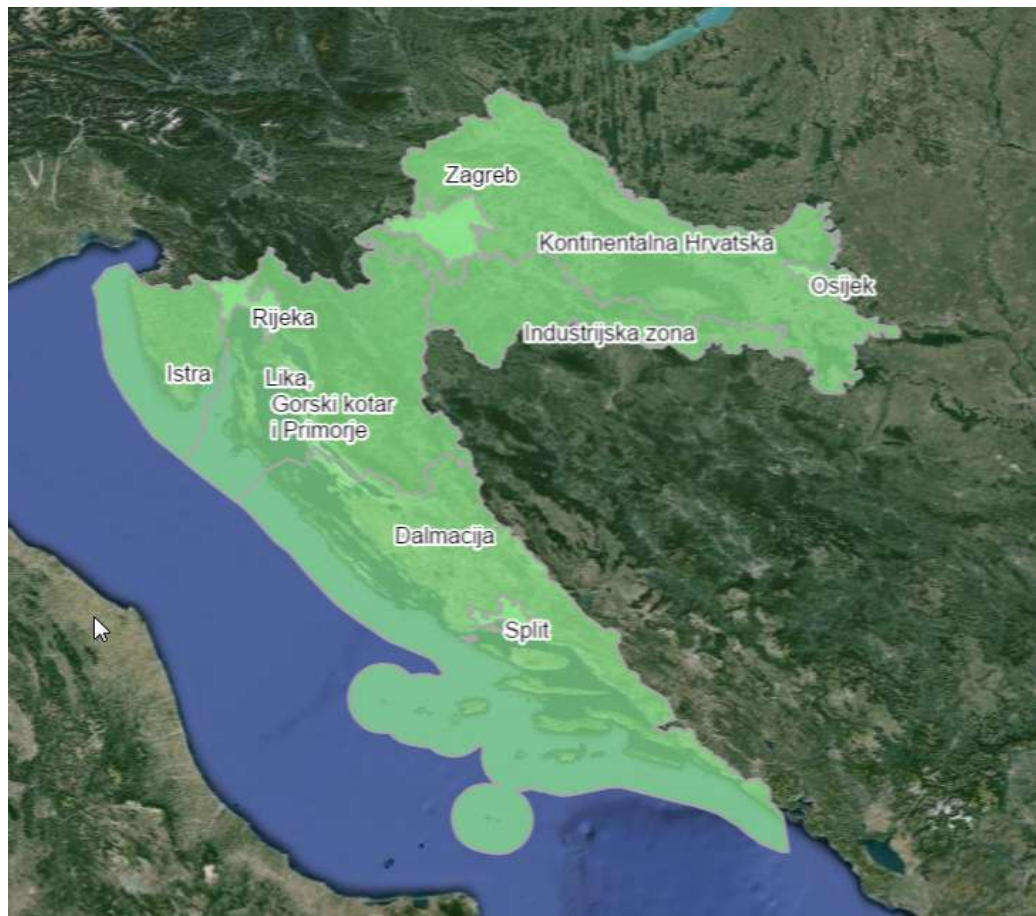
In Istria zone. the maximum daily 8-hour **ozone** concentrations exceeded the target value at one monitoring station (Pula Fižela, 87 days).

(Pula Fižela, 87 dana).

In Dalmacia zone. the maximum daily 8-hour **ozone** concentration exceeded the target value at two monitoring stations (Hum, 75 days, Žarkovica, 36 days)



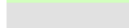
14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015 – SO₂



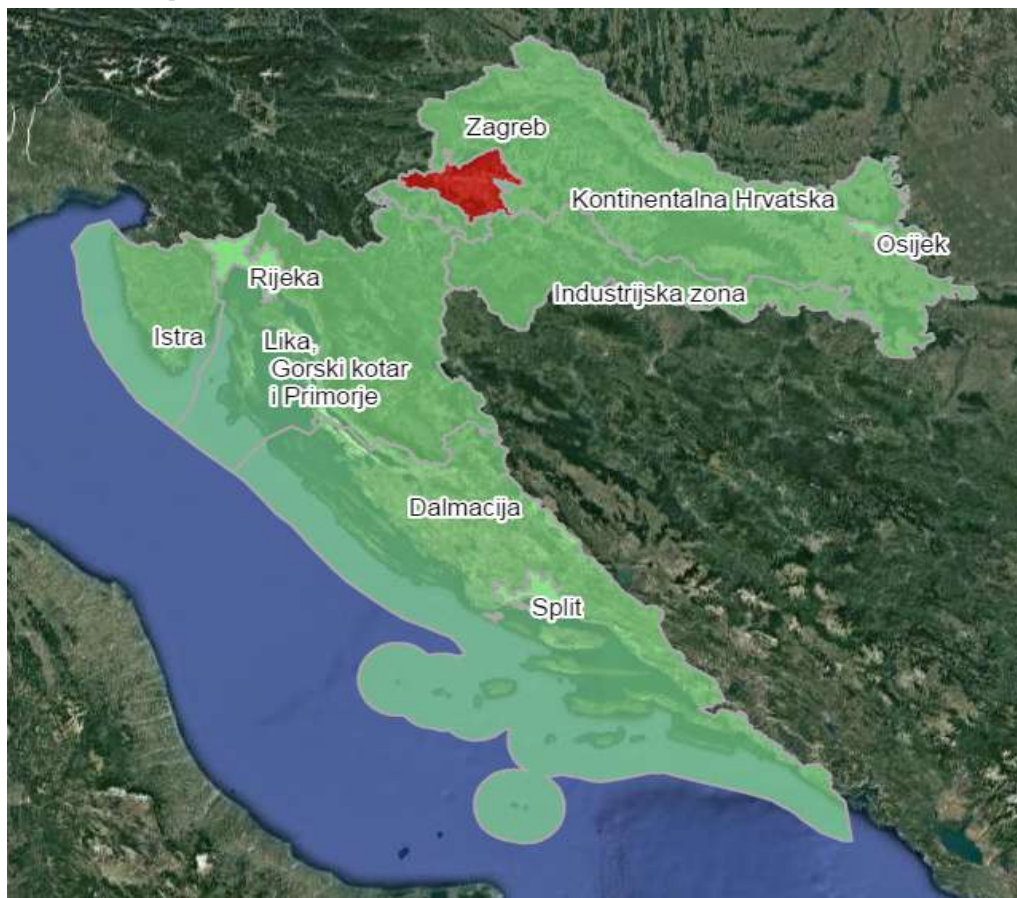
Based on the analysis of measurement results and the objective estimate, following is estimated : SO₂ concentrations were lower than the prescribed limit values in all zones and agglomerations

Legenda:

-  Nesukladno sa ciljevima zaštite okoliša (Prekoračena GV)
-  Sukladno sa ciljevima zaštite okoliša (Nije prekoračena GV)
-  Neocijenjeno

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015. – NO₂



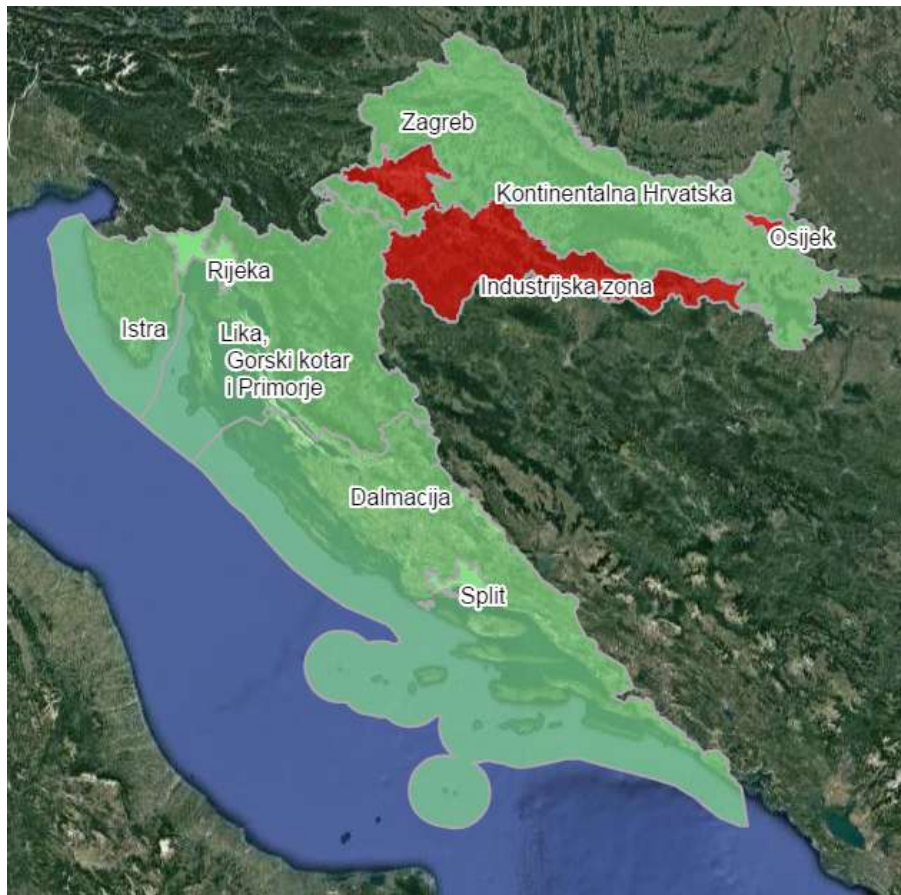
Based on the analysis of the measurement results and the objective evaluation following is estimated:

- NO₂ concentrations were above the prescribed mean annual limit values in the agglomeration of Zagreb at the Zagreb-1 monitoring station.
- NO₂ concentrations were lower than the prescribed limit values in all other agglomerations (Osijek, Rijeka and Split) and in all

Legenda:

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015 – PM₁₀



Based on the analysis, following is estimated:

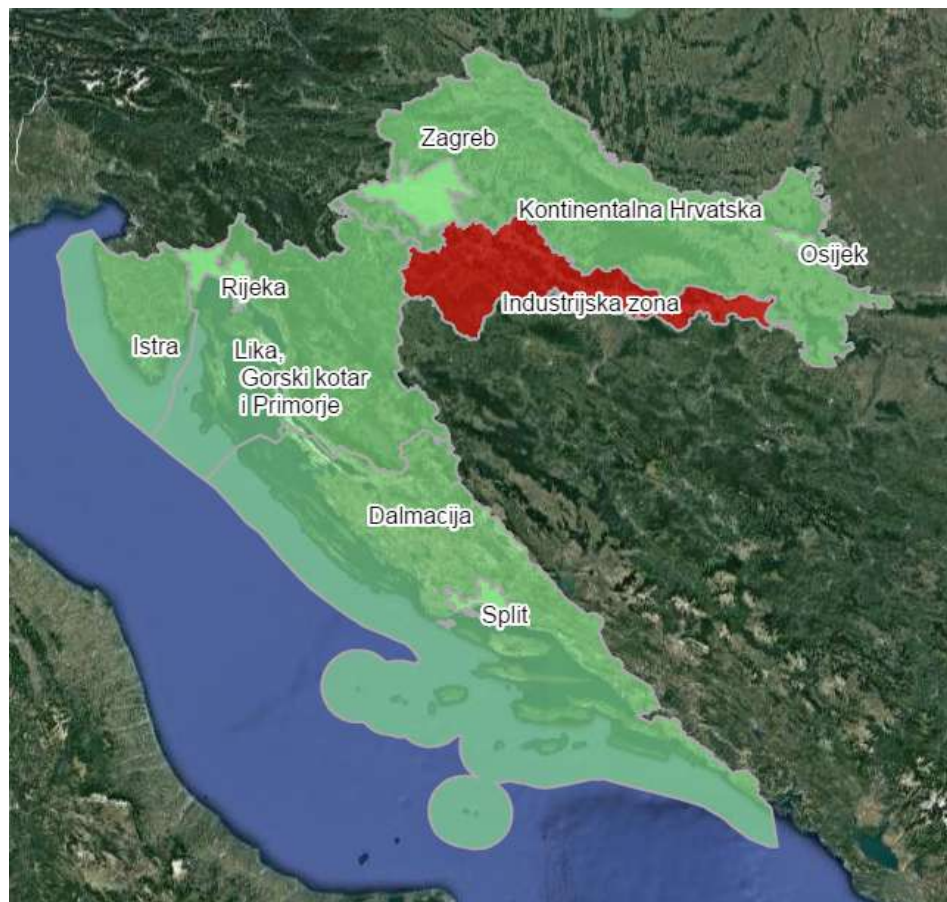
- concentrations of PM₁₀ floating particles were higher than the prescribed limit values in the agglomerations of Zagreb and Osijek and the Industrial Zone (HR 2).

In the agglomerations of Rijeka and Split and the continental Croatia (HR 1), Lika, Gorski kotar and Primorje (HR 3), Istria (HR 4) and Dalmatia (HR 5) concentrations of PM₁₀ floating particles were lower than the prescribed limit values.

Legenda:

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015– PM_{2,5}



PM_{2,5} concentrations were:

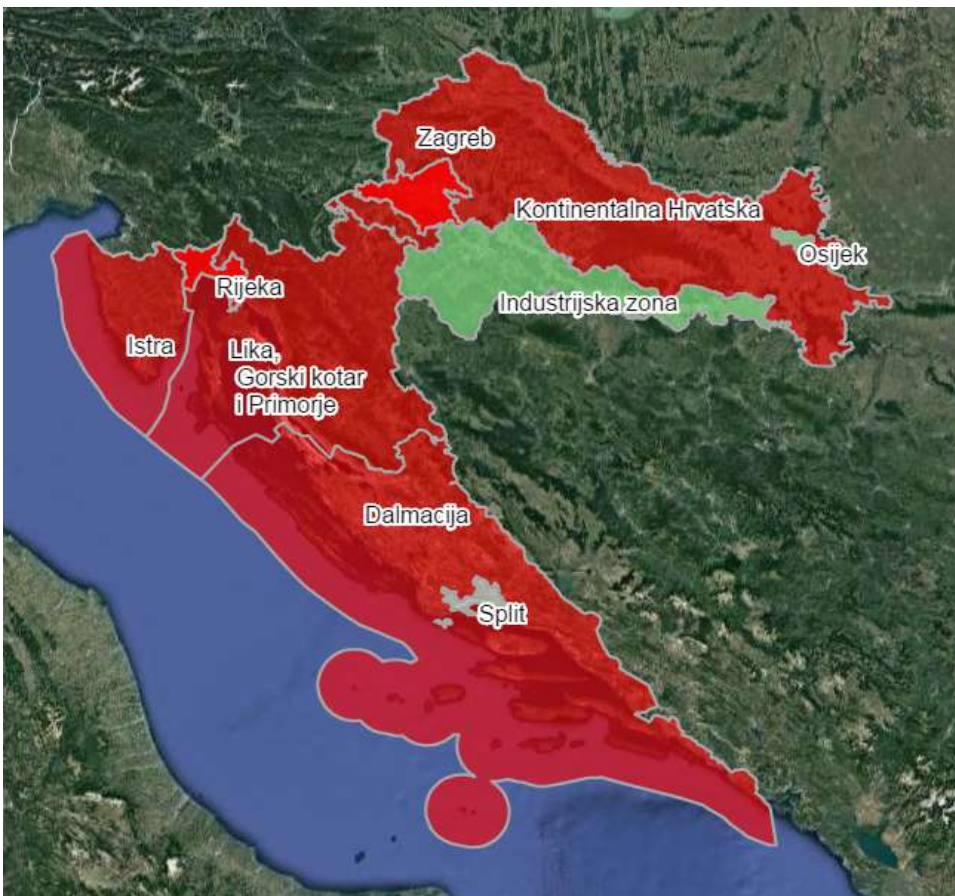
- more than the prescribed limit value in the Industrial Zone (HR 2).
- lower than the LV in the agglomerations of Zagreb, Rijeka and Split and in the areas of continental Croatia (HR 1), Lika, Gorski kotar and Primorje (HR 3), Istria (HR 4) and Dalmatia (HR 5).

-- The estimate for Osijek agglomeration was given on the basis of the measurement results from monitoring stations Kopački rit (nearest monitoring station) and ZAGREB PPI PM_{2,5} - Ksaverska cesta (city background monitoring station).

Legenda:

14.4 OFFICIAL DATA SUBMISSION

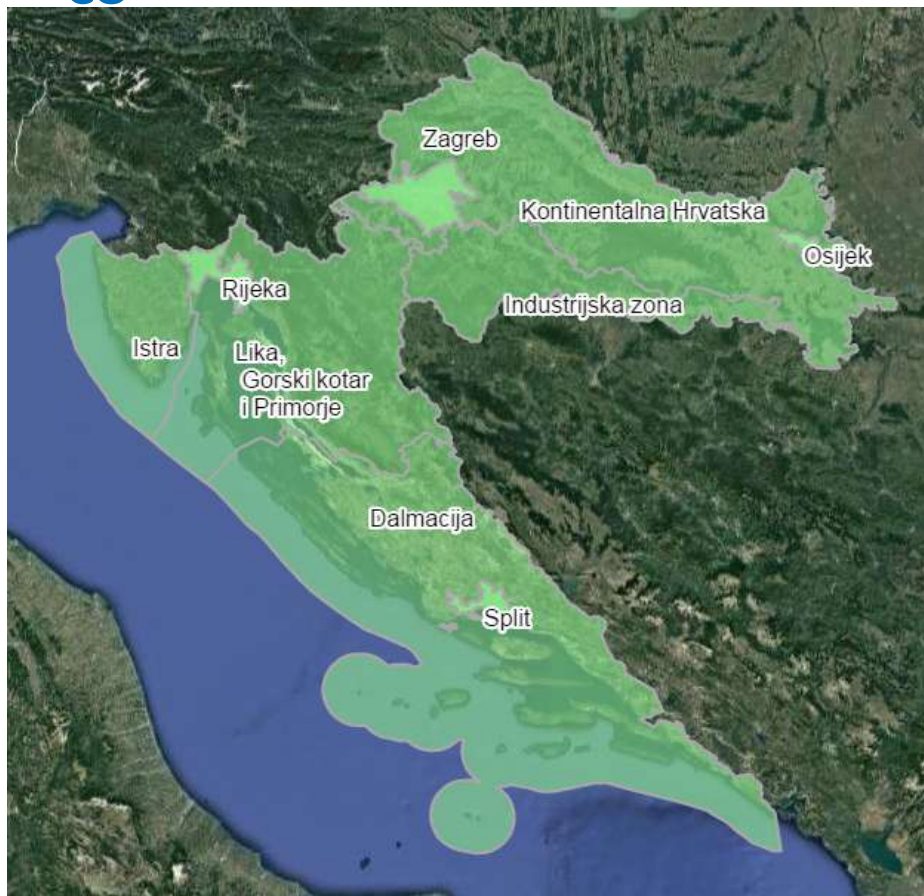
Assessment of zones and agglomerations pollution (compliance) for 2015— O₃



On the basis of the analysis of the data obtained by measuring, it was estimated that the concentrations of ozone were higher than the prescribed target values in the agglomerations of Zagreb and Rijeka and in the zones Continental Croatia (HR 1), Lika, Gorski kotar and Primorje (HR 3), Istria (HR 4) and Dalmatia (HR 5). - In Industrial zone (HR 2) and Osijek agglomeration the ozone concentration were lower than the prescribed target values. -Split agglomeration was not assessed

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015 – CO



Based on indicative measurements and objective / expert estimate, it was estimated that the CO concentrations were lower than the prescribed limit values in all zones and agglomerations.

Legenda:

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015–benzene

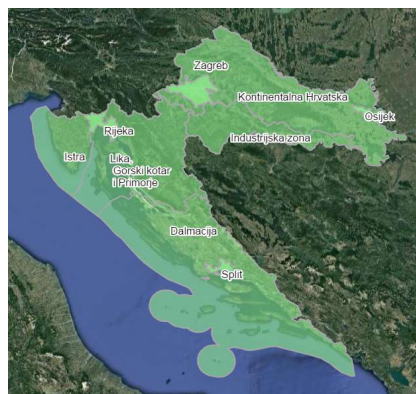
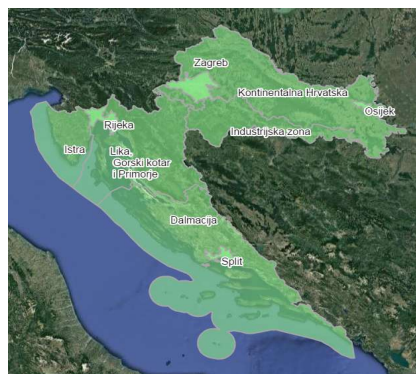


It was estimated that benzene concentrations were lower than the prescribed LVs in all agglomerations.

- In the Industrial zone (HR 2) at the Sisak-1 terminal monitoring station, benzene concentrations were higher than the limit value.
- The objective / expert estimate showed that the average annual values of benzene did not exceed the LV in the zones of continental Croatia (HR 1), Lika, Gorski kotar and Primorje (HR 3), Istria (HR 4) and Dalmatia (HR 5) in 2015 .

14.4 OFFICIAL DATA SUBMISSION

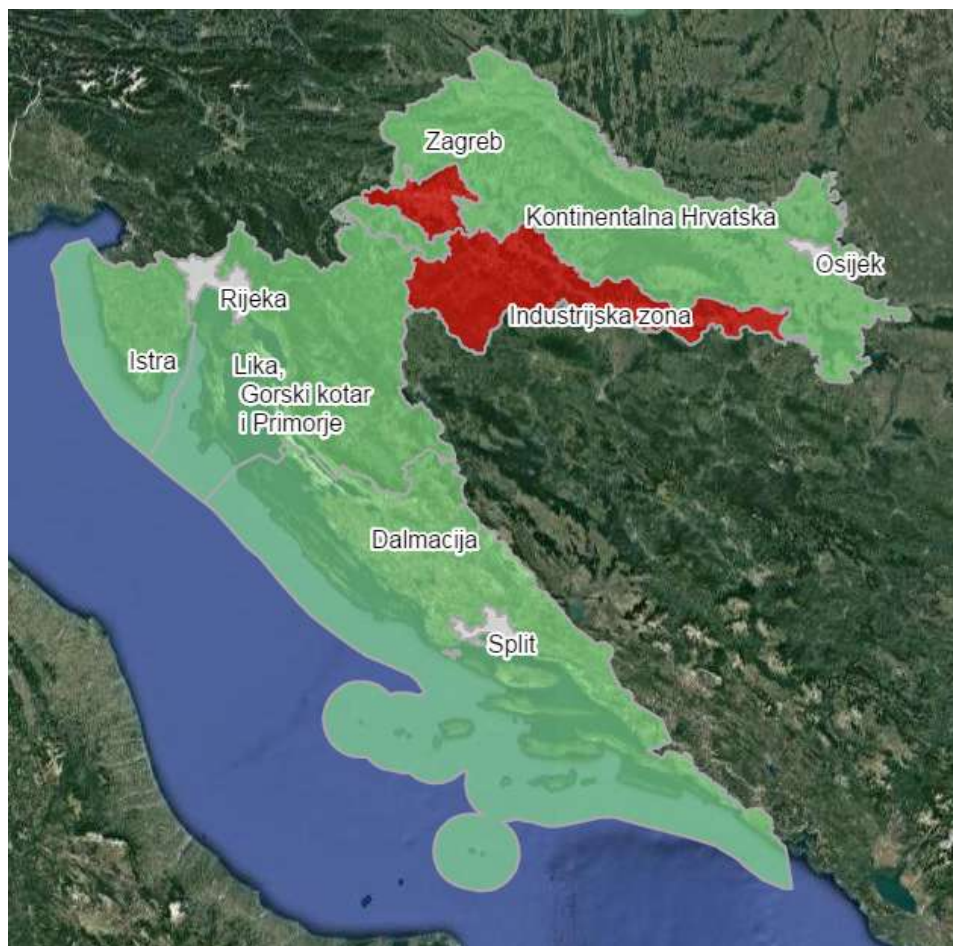
Assessment of zones and agglomerations pollution (compliance) for 2015 – Cd, Ni, As and Pb in PM₁₀



On the basis of measurement results and objective estimates it was estimated that the **Cd, Ni, As and Pb** concentrations in **PM₁₀** were lower than the prescribed limit or target values in all zones and agglomerations

14.4 OFFICIAL DATA SUBMISSION

Assessment of zones and agglomerations pollution (compliance) for 2015 – B(a)P in PM₁₀



Concentrations B (a) P in PM₁₀ were higher than the prescribed target values in the agglomeration of Zagreb at the Zagreb-1 and Zagreb-3 measuring stations as well as at the Industrial zone (HR 2) at the Sisak-1 monitoring station.

- Based on the values of the total BaP concentration in the air obtained from the model, it is estimated that the mean annual values of BaP in PM₁₀ have not exceeded the target values in the zones of Continental Croatia (HR 1), Lika, Gorski kotar and Primorje (HR 3), Istria (HR 4) Dalmatia (HR

Legenda:

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

Sulfur dioxide SO₂

- All zones and agglomerations are rated as pure.

Nitrogen dioxide NO₂

- Zagreb agglomeration is rated as polluted.
- Other agglomerations and all zones are rated as pure.

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

Particulate matter PM₁₀

- Zagreb and Osijek agglomerations and Industrial zone are rated as polluted.
- Rijeka and Split agglomerations and the zones of Continental Croatia, Istria, Lika, Gorski kotar and Primorje and Dalmatia are rated as pure.

Particulate matter PM_{2,5}

- Industrial zone is rated as polluted.
- Zagreb Osijek, Rijeka and Split agglomerations, as well as other zones, are rated as pure.

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

Ozone O₃

- The zones of Continental Croatia, Lika, Gorski kotar and Primorje, Istria and Dalmatia are rated as polluted, as well as Zagreb and Rijeka agglomerations.
- Osijek agglomeration and Industrial zone are rated as pure.
- Split agglomeration was not rated.

Carbon monoxide CO

- All zones and agglomerations are rated as pure.

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

Benzene

- Industrial zone is rated as polluted.
- Other zones were rated as pure.
- All agglomerations are rated as pure.

Carbon monoxide CO

- All zones and agglomerations are rated as pure.

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

Benzene

- Industrial zone is rated as polluted.
- Other zones were rated as pure.
- All agglomerations are rated as pure.

Pb, Cd, Ni, As in PM₁₀

- All zones and agglomerations are rated as pure.

14.4 OFFICIAL DATA SUBMISSION

Summary assessment of zones and agglomerations pollution (non-compliance) for 2015

B(a)P in PM10

- Zagreb agglomeration and Industrial zone are rated as polluted.
- Other zones were rated as pure.
- Osijek, Rijeka and Split agglomerations were not rated.

14.5 ACTION PLAN DATA SUBMISSION

- **Action plans (information H-K)**

Health Protection Act – if **air pollutant levels exceed any limit or target value** in a particular zone or agglomeration in each of these cases an **action plan for improving the air quality** for that zone or agglomeration is introduced **in the shortest time possible** in order to ensure **achievement of limit or target values**.

Action Plan for air quality improvement covers all relevant pollutants, and may also include special measures aimed at protecting vulnerable groups of the population, including children.

14.5 ACTION PLAN DATA SUBMISSION

- **Action plans**

If more units of local self-government, i.e. the City of Zagreb belong to the same zone or agglomeration in which pollutant levels exceed any limit or target value, they **cooperate in drawing up an action plan to harmonize the measures.**

The competent administrative body of the local self-government unit or the City of Zagreb shall ensure the development of an action plan.

The representative body of the local self-government unit or the City of Zagreb **implements an action plan for its administrative area.**

14.5 ACTION PLAN DATA SUBMISSION

Action plan contains specifically following:

- identifying locations of excessive pollution,
- general information,
- the competent responsible authority,
- type and assessment of contamination, origin of contamination,
- analysis of the state,
- details of the measures taken,
- measures to reduce air pollution,
- order and deadlines for the implementation of measures
- and estimate of resources.

14.5 ACTION PLAN DATA SUBMISSION

The mandatory elements of the Action Plan for Air Quality Improvement are prescribed in Part I of the Annex to the Regulation on mutual information exchange and reporting on air quality and obligations for implementation of Commission Decision 2011/850 / EU (Official Gazette, No 3/16)

1.	Lokaliziranje prekomjernog onečišćenja
	(a) područje;
	(b) grad (karta);
	(c) mjerna postaja (karta, geografske koordinate).
2.	Opći podaci
	(a) vrsta zone (grad, industrijsko ili ruralno područje);
	(b) procjena veličine onečišćenog područja (km ²) i broja stanovnika izloženih onečišćenju;
	(c) korisni klimatski podaci;
	(d) relevantni topografski podaci;
	(e) dovoljno podataka o vrsti ciljeva u zoni koje zahtijevaju zaštitu.
3.	Odgovorna tijela
	Imena i adrese osoba koje su odgovorne za razvoj i provedbu akcijskog plana za poboljšanje kvalitete zraka.
4.	Priroda i procjena onečišćenja
	(a) koncentracije koje su zabilježene tijekom prethodnih godina (prije provedbe mjera za poboljšanje);
	(b) koncentracije koje su izmjerene od početka provedbe projekta;
	(c) tehnike koje su korištene za procjenu.
5.	Porijeklo onečišćenja
	(a) popis glavnih izvora emisije koji su odgovorni za onečišćenje (karta);
	(b) ukupna količina emisija iz tih izvora (tone/godina);
	(c) podaci o onečišćenju koje je došlo iz drugih regija.
6.	Analiza situacije
	(a) detaljni podaci o onim faktorima koji su odgovorni za prekoračenje (npr. promet, uključujući i prekogranični promet, nastajanje sekundarnih onečišćujućih tvari u atmosferi);
	(b) detaljni podaci o mogućim mjerama za poboljšanje kvalitete zraka.
7.	Detaljni podaci o onim mjerama ili projektima za poboljšanje, koji su postojali prije 11. lipnja 2008., tj.:
	(a) lokalne, regionalne, nacionalne, međunarodne mjere;
	(b) zabilježeni učinci tih mjera.
8.	Detaljni podaci o onim mjerama ili projektima koji su usvojeni s ciljem smanjenja onečišćenja, sukladno Zakonu o zaštiti zraka:
	(a) popis i opis svih mjera navedenih u akcijskom planu;
	(b) vremenski plan provedbe;
	(c) procjena planiranog poboljšanja kvalitete zraka i očekivanog vremena, potrebnog za dostizanje tih ciljeva.
9.	Detaljni podaci o dugoročno planiranim ili istraživanim mjerama ili projektima.
10.	Popis publikacija, dokumenata, radova, itd., koji su korišteni kao dopuna podacima koji se traže na temelju ovoga Priloga.

14.5 ACTION PLAN DATA SUBMISSION

According to the amendments to the Air Protection Act (OG 61/17), the **Action Plan is implemented within 18 months of the end of the year in which the exceedance was noted** and the competent authority of the local self-government unit **submits to the Agency the implemented Action Plan** for the purposes of Air Protection Information System.

Exceptionally, **the action plan for exceedances established at the measurement sites referred to in Article 19, paragraph 5 of the Air Protection Act** measurement points used for mutual exchange of information and reporting on air quality between the Agency and the European Commission, is submitted by the competent authority of the local self-government unit for the review of **the Ministry and the Agency** prior to its adoption and at the latest within **15 months** of the end of the year in which the exceedance was established.

14.5 ACTION PLAN DATA SUBMISSION

Information on the action plan for exceeding the limit and target values from the measurement points **established by the Regulation** on the establishment of a list of measurement points for monitoring concentrations of certain pollutants in the air and the location of the monitoring stations in the national network for permanent air quality monitoring (Official Gazette 65/16) **are submitted to the Agency immediately upon adoption of the Action Plan. (do not wait 18/15 months)**

The Agency shall submit information on the action plans to the EC immediately upon receipt and at the latest 2 years after the end of the calendar year in which the first exceedance was recorded.

According to the requirements of Implementing Decision 2011/850 / EC the data are submitted **electronically (XML format)**, and the reference form for entering and submitting the data is on the **Air Quality portal in the Republic of Croatia.**

14.5 ACTION PLAN DATA SUBMISSION

Information on action plans to be delivered to EC are following:

- **Information on Action Plans for Air Quality Improvement (H)** - this is general information on action plans: plan name, year of first exceedance, responsible authority, pollutants covered, date of plan implementation, time schedule of implementation ...
- **Source Distribution Information (I)** - this is information on source apportionment, or contribution to pollution: local, regional, urban
- **Scenario information for the year of achievement (J)** - this is information about the initial and projection scenario for the year of reaching the limit value. The initial scenario is without taking measures, and the projection scenario is with the measures taken
- **Information on measures to improve air quality (K)** - information on measures taken to achieve limit and / or target values: type of measure, time period of measure, sectors and areas which the measure affects, emission reduction due to measure implementation and expected influence on concentrations

14.5 ACTION PLAN DATA SUBMISSION

Information on action plans (Information H-K) shall be submitted by the representative body of the local self-government unit to the Agency in the air protection information system **in electronic form using the formats and protocols** of Commission Decision 2011/850 / EU **published by the Agency on its web site.**

All information submitted to the EC is publicly available on the Air Quality portal in the Republic of Croatia on the following links:

<http://iszz.azo.hr/iskzl/hPlan.htm>

<http://iszz.azo.hr/iskzl/iSourceAppointment.htm>

<http://iszz.azo.hr/iskzl/iEvaluation.htm>

<http://iszz.azo.hr/iskzl/kMeasure.htm>

14.5 ACTION PLAN DATA SUBMISSION

Information on action plans for air quality improvement (H)

- općenite informacije o akcijskim planovima: ime plana, godina prvog prekoračenja, odgovorno tijelo, obuhvaćene onečišćujuće tvari, datum donošenja plana, vremenski plan provedbe

.....

The screenshot shows a web form for submitting air quality improvement action plan data. The header includes the logo of the 'AGENCIJA ZA ZAŠTITU OKOLIŠA' and the title 'Kvaliteta zraka u Republici Hrvatskoj'. A navigation menu contains links for 'Naslovnica', 'Mreže', 'Podaci', 'Servisi', 'Obavijesti', 'Dokumenti', 'Kontakt', and 'e-reporting'. Below the menu, there are tabs for 'Plan kvalitete zraka (H)', 'Količinski doprinosi - raspodjela izvora (B)', 'Scenarij - početni i projektni (L)', and 'Mjere (K)'. The main form area is titled 'Plan kvalitete zraka (H)' and includes a year selector (2015, 2016, 2017) and an 'Eksportiraj u Word' button. The form fields are as follows:

- Verzija:** Verificirano (23.12.2015 15:36) viedic
- H.1.3 Opis promjena:** A.7.2 Opis promjena
- H.1.4 Period izvješćivanja:**
 - H.1.4.1 Godina izvješća: 2015
 - Godina na koju se odnose podaci: 2013
- H.2.2 Šifra plana:** PPS_HR00ZG_PM10_0_2015
- H.2.3 Naziv plana:** Akcijski plan za poboljšanje kvalitete zraka na području Grada Zagreba

<http://iszz.azo.hr/iskzl/hPlan.htm?id=5>

14.5 ACTION PLAN DATA SUBMISSION

Information on action plans for air quality improvement(H)

H.1.3 Description of changes (if any)

H.1.4 Reporting Period

H.1.4.1 Year Report

H.2.2 Plan code

H.2.3 Name of plan

H.2.4 Competent authority

H.2.5 Reference year of first exceedance

H.2.6 Status

H.2.7 Pollutants covered by the plan

H.2.8 Date of official adoption of the plan

H.2.9 Scheduled Implementation Schedule

H.2.10 Link to air quality plan

H.2.11 Application link

H.2.12 Related Publications

H.2.13 Comment

H.2.14 Information on exceedance statement

14.5 ACTION PLAN DATA SUBMISSION

Quantitative contributions– source apportionment (I)

-source apportionment information, i.e. contribution to pollution: local, regional, urban ...

The screenshot shows the web interface of the Agency for Environmental Protection of the Republic of Croatia. The main heading is 'Kvaliteta zraka u Republici Hrvatskoj'. The current page is titled 'Količinski doprinosi - raspodjela izvora (I)'. The form contains the following fields:

- Verzija:** Verificirano (29.12.2015 15:58) inadić
- Podaci se odnose na plan:** Aktijski plan za poboljšanje kvalitete zraka na području Grada Zagreba
- I.1.3 Opis promjena:** A.7.2 Opis promjena
- I.1.4 Period izvješćivanja:** I.1.4.1 Godina izvješćivanja: 2015; Godina na koju se odnose podaci: 2013
- I.2.1 Kod raspodjele izvora:** I.2.1 Kod raspodjele izvora: SA_HRODZC_PM10_2015
- I.2.2 Referentna godina:** I.2.2 Referentna godina: ...

<http://iszz.azo.hr/iskzl/iSourceAppointment.htm>

14.5 ACTION PLAN DATA SUBMISSION

Quantitative contributions– source apportionment (I)

I.1.3 Description of changes (if any)

I.1.4 Reporting Period

I.1.4.1 Year of Reporting

I.2.1 When allocating the source

I.2.2 Reference year

I.2.3 Plan code

I.2.4 Assessment of urban impacts

I.2.5 Local Impact Assessment

I.2.6 Exceedance

- Numerical value of exceedance (mean annual value)
- Number of exceedances (days / hours)
- Assessment method
- Reduction of the assessment method

Information on population and exposed ecosystem and vegetation in the area of exceedance

I.2.7 Comments

I.2.8 Link to Plan (data "H")

I.2.9 Link to Exceedance (data "G")

14.5 ACTION PLAN DATA SUBMISSION

Scenario – initial and projection (J)

- information on initial and projection scenario for the year of achieving the limit value. The initial scenario is without taking measures, and the projection scenario is with the measures taken

...

The screenshot shows the web interface of the Agency for Environmental Protection of the Republic of Croatia. The main heading is 'Kvaliteta zraka u Republici Hrvatskoj'. The navigation menu includes 'Naslovnica', 'Itrče', 'Podaci', 'Servisi', 'Obavijesti', 'Dokumenti', 'Kontakt', and 'e-reporting'. The current page is titled 'Scenarij - početni i projekcijski (J)'. The form contains the following fields:

- Verzija:** Verificirana (29.12.2015 10:18) apeljakovic
- Podaci se odnose na plan:** Akcijski plan za poboljšanje kvalitete zraka na području Grada Zagreba
- J.1.3 Opis promjene:** A.7.2 Opis promjene
- J.1.4 Period izvješćivanja:** J.1.4.1 Godina izvješćivanja: 2015; Godina na koju se odnose podaci: 2013
- J.2.2 Kod Scenarija:** J.2.2 Kod Scenarija: ES_HROOZG_RH10_2015
- J.2.4 Godina postizanja za koju su projekcije izračunate:** J.2.4 Projekcijska godina: 2020

<http://iszz.azo.hr/iskzl/iEvaluation.htm>

14.5 ACTION PLAN DATA SUBMISSION

Scenario – initial and projection (J)

J.1.3 Description of change

J.1.4 Reporting Period

J.1.4.1 Year of Reporting

J.2.2 Scenario code

J.2.3 Relevant publications

J.2.4 The year for which projections are calculated

J.2.5 Start of the year

J.2.6 Initial scenario

J.2.6.1 Description of Initial Scenario

J.2.6.2 Total emissions (kt / year)

J.2.6.3 Expected level of concentration [$\mu\text{g} / \text{m}^3$]

J.2.6.4 Expected Exceedances

J.2.6.5 Comments

J.2.6.6 Measures from the plan included in the initial scenario

J.2.7 Projection scenario

J.2.7.1 Description of the Projection Scenario

J.2.7.2 Total emissions (kt / year)

J.2.7.3 Expected concentration level

J.2.7.4 Expected exceedances

J.2.7.5 Comments

J.2.7.6 Measures from the plan included in the projection

J.2.8 Link to Plan (data "H")

J.2.9 Link to Source apportionment (Data "I")

14.5 ACTION PLAN DATA SUBMISSION

Measures (K)

- information on measures taken to achieve limit and / or target values: type of measure, duration of measure, sectors and areas affected by the measure, reduction of emissions due to measure implementation and expected impact on concentrations ...

The screenshot shows the web interface for submitting air quality measure data. The header identifies the agency as 'AGENCIJA ZA ZAŠTITU OKOLIŠA' (Agency for Environmental Protection) and the context as 'Kvaliteta zraka u Republici Hrvatskoj' (Air Quality in the Republic of Croatia). The main navigation bar includes links for 'Naslovica', 'Mreže', 'Podaci', 'Servisi', 'Obavijesti', 'Dokumenti', 'Kontakt', and 'e-reporting'. A secondary bar contains filters for 'Plan kvalitete zraka (H)', 'Kadašinski doprinosi - raspodjela izvora (I)', 'Scenarij - početni i projekcijski (J)', and 'Mjere (K)'. The 'Mjere (K)' section is active, showing a form for data submission. The form includes a 'Verzija' field with the value 'Verificirano (29.12.2015 09:21) dbejlović', a 'Podaci se odnose na plan' field with the value 'Aktivni plan za poboljšanje kvalitete zraka na području Grada Zagreba', and several numbered sections for specific data entry: 'K.1.3 Opis promjena' (with sub-field 'A.7.2 Opis promjena'), 'K.1.4 Period izvješćivanja' (with sub-fields for 'Godina izveščivanja' set to 2015 and 'Godina na koju se odnose podaci' set to 2013), 'K.2.2 Kod mjere' (with value 'M_HR002G_PM10_2015'), and 'K.2.3 Naziv' (with value 'Promet').

<http://iszz.azo.hr/iskzl/kMeasure.htm?id=6>

14.5 ACTION PLAN DATA SUBMISSION

Measures (K)

- K.1.3 Description of change
- K.1.4 Reporting Period
 - K.1.4.1 Year of Reporting
- K.2.2 Measurements
- K.2.3 Name of measure
- K.2.4 Description of measure
- K.2.5 Classification of measures
- K.2.6 Type of measure
- K.2.7 Administrative level
- K.2.8 Time period of measure
- K.2.9 Costs
 - K.2.9.1 Estimated Costs
 - K.2.9.2 Final Costs
 - K.2.9.3 Currency
 - K.2.9.4 Comment

- K.2.10 Sources affected by the measure
- K.2.11 Area affected by the measure
- K.2.12 Planning Implementation
 - Implementation status (planned and actual starting and end dates) and Scheduled date when the measure should produce a full effect
- K.2.13 Reduction of emission due to measure application
- K.2.14 Expected impact on concentrations
 - K.2.14.1 Value
 - K.2.14.2 Number of exceedances (Hours or Days)
- K.2.15 Comment for clarification
- K.2.16 Link to Source apportionment (Data "I")
- K.2.17 Link to Scenario (Data "J")

14.5 ACTION PLAN DATA SUBMISSION

In all H-K forms, most of the fields have **additional explanation** about what exactly should be entered in that field, which is shown when the cursor is placed in that field

AGENCIJA ZA ZAŠTITU OKOLIŠA Kvaliteta zraka u Republici Hrvatskoj

Naslovnica Mreže Podaci Servisi Obavijesti Dokumenti Kontakt e-reporting Prijavite se

Plan kvalitete zraka (H) Količinski doprinosi - raspodjela izvora (I) Scenarij - požetni i projekcijski (J) Mjere (K)

Mjere (K)

2015 2016 2017

Eksportiraj u Word

Verzija
Verificirano (29.12.2015 09:21) dpejakovic

Podaci se odnose na plan
Akcijski plan za poboljšanje kvalitete zraka na području Grada Zagreba,

K. 1.3 Opis promjena

A.7.2 Opis promjena

Molimo upisati da li je, od posljednjeg izvješćivanja, bilo promjena i kojih

K. 1.4 Period izvješćivanja

K.1.4 Godina izvješćivanja: 2015
Godina na koju se odnose podaci: 2013

K. 2.2 Kod mjere

K.2.2 Kod mjere
M_HR002G_PW10_2015

K. 2.3 Naziv

K.2.3 Naziv
Promet

14.6 EIONET – CENTRAL DATA REPOSITORY

CENTRAL DATA REPOSITORY is a central repository / storage / data space that is part of ReportNet. (ReportNet is a group of web applications and processes developed by the EEA to support international environmental reporting).

CDR - The central data repository / storage / space is like a bookcase, with environmental data submitted to it

Each country has their own (📍) map for data submission.

<https://cdr.eionet.europa.eu/>

The screenshot shows the EIONET Central Data Repository website. The header includes the EEA logo and navigation tabs for SERVICES, REPORTNET, TOOLS, and TOPICS (ETCS). The main content area is titled "EIONET Central Data Repository" and contains a "Services" sidebar with links like "Search by obligation", "Search XML files", and "Global worklist". The main text explains that the CDR is part of the Reportnet architecture and is like a bookshelf. It lists "EEA Member countries" and "Other countries and territories" with links to each country's data submission page. A "Note" box encourages users to subscribe for notifications. The footer includes a "Need help?" section and a "Document last modified 2017/10/13. Legal notice" link.

14.6 EIONET – CENTRAL DATA REPOSITORY

Submitted data within each country are organized according to relevant reporting obligations or agreements.

<http://cdr.eionet.europa.eu/hr>

<http://cdr.eionet.europa.eu/hr/eu/>

EIONET
Central Data Repository

EEA | Login

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet > CDR > Croatia

Services

- Search by obligation
- Search XML files
- Search for feedback
- Global worklist
- Notifications
- Help

Account Services

I have

- lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site

Overview

Croatia

Envelopes and subcollections

Ben Convention	28 Jan 2013
EFA requests	19 Nov 2015
European Union (EU) obligations	20 Sep 2017
Eurostat/OECD joint questionnaire	28 Jan 2013
Helsinki	28 Jan 2013
Ospar/Paricom	28 Jan 2013
Other conventions and agreements	28 Jan 2013
United Nations (UN)	27 Dec 2015

EC Directive (2002/3/EC) Emission Summaries	24 Apr 2011
Marine Strategy Framework Directive (MSFD) Competent Authorities	27 Dec 2016
Marine Strategy Framework Directive: Article 17 (updates)	20 Sep 2017
Marine Strategy Framework Directive: Articles 8, 9 and 10 & geographic areas and regional cooperation reporting	24 Jul 2015
Marine Strategy Framework Directive: monitoring programmes	19 Oct 2015
Marine Strategy Framework Directive: programmes of measures	18 Nov 2015
Monthly ozone exceedances (2002/3/EC)	18 Oct 2013
National Emission Ceilings Directive (NECD 2016/2284/EU)	19 Jan 2017
National emission ceilings (NEC Directive 2001/81/EC)	16 Jan 2017
Natura 2000 network (Birds Directive and Habitats Directive)	17 Aug 2016
Nitrates Directive Report (91/676/EEC)	24 Mar 2017
Reporting under IPPC Directive	27 Dec 2016
Reporting under air quality directives 2004/107/EC and 2008/50/EC	27 Dec 2016
Summer ozone exceedances (2002/3/EC)	31 Oct 2013
Urban Waste Water Treatment Directive 91/271/EEC - Implementation	27 Dec 2016
Urban Waste Water Treatment Directive 91/271/EEC - National Implementation Programme	27 Dec 2016
Urban Waste Water Treatment Directive 91/271/EEC - Situation Report	27 Dec 2016
VOC (solvents) directive (1999/13/EC): implementation report	27 Dec 2016
W1 Directive Reporting data	27 Dec 2016
Water Framework Directive: Art. 3 reporting	18 Jan 2015

14.6 EIONET – CENTRAL DATA REPOSITORY

By accession to the European Union, the Republic of Croatia has undertaken to submit information / data on air quality to the European Commission.

For this reason, in 2014 HAOP developed the portal "Air Quality in the Republic of Croatia", which contains all the information required for IPR reporting, and allows to generate.xml files that are delivered to the CDR.

From 2014 (data for 2013, 2013 - was the first year for which official data had to be submitted) The Republic of Croatia submits air quality data to the European Commission and thus fulfills all its air quality reporting requirements required by the implementing Decision 2011/850 / EU for Directives 2008/50 / EC and 2004/107 / EC.

14.6 EIONET – CENTRAL DATA REPOSITORY

Data submitted by the Republic of Croatia on air quality on CDR in accordance with Directives 2008/50 / EC and 2004/17 / EC
All data – from B to G and from H to K

EEA | Login | B |

EIONET Central Data Repository

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet» CDR» Croatia» European Union (EU) obligations» Reporting under air quality directives 2004/107/EC and 2008/50/EC

Services

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

I have

- » [lost my password](#)

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Overview

Reporting under air quality directives 2004/107/EC and 2008/50/EC

Envelopes and subcollections

(B) Information on zones and agglomerations (Article 6)	14 Sep 2017
(B) Preliminary information on zones and agglomerations (Article 6)	24 Apr 2017
(C) Information on the assessment regime (Article 7)	15 Sep 2017
(C) Preliminary information on the assessment regime (Article 7)	28 Dec 2016
(D) Information on the assessment methods (Articles 8 and 9)	26 Sep 2017
(D1b) Information on the assessment methods (Articles 8 and 9) - for models and objective estimation	21 Sep 2017
(E1a) Information on primary validated assessment data - measurements (Article 10)	27 Sep 2017
(E1b) Information on primary validated assessment data - modelled (Article 10)	09 Oct 2015
(E2a) Information on primary up-to-date assessment data - measurements (Article 10)	08 Sep 2014
(F1a) Information on generated aggregated data - primary validated measurements (Article 11)	08 Sep 2014
(F1b) Information on generated aggregated data - primary validated modelled (Article 11)	09 Oct 2015
(F2) Information on generated aggregated data - primary up-to-date measurements (Article 11)	08 Sep 2014
(G) Information on the attainment of environmental objectives (Article 12)	27 Sep 2017
(H) Information on air quality plans (Article 13)	06 Feb 2017
(I) Information on source apportionment (Article 13)	06 Feb 2017
(J) Information on the scenario for the attainment year (Article 13)	07 Feb 2017
(K) Information on measures (Articles 13 and 14)	07 Feb 2017

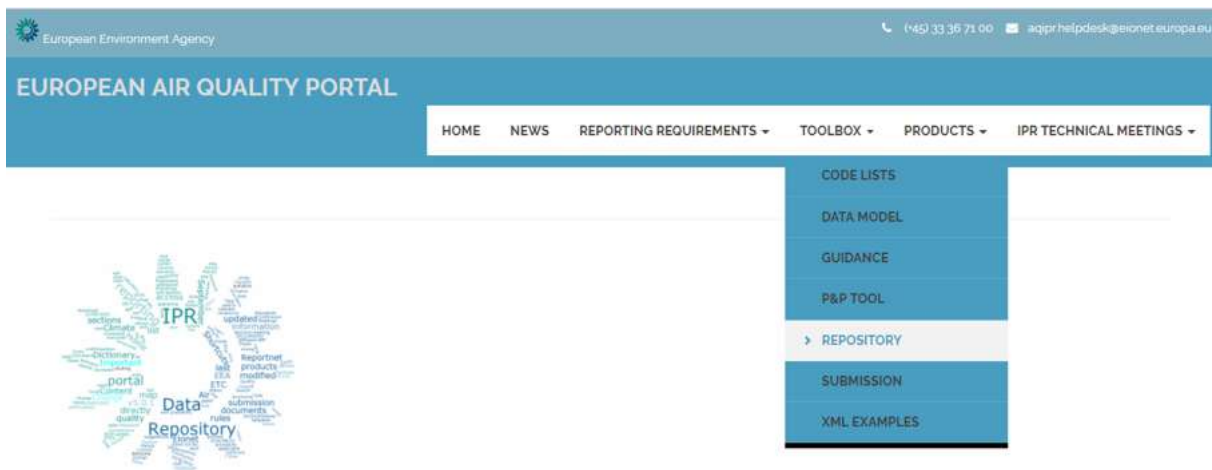
Document last modified 2016/12/27. [Legal notice](#)

<http://cdr.eionet.europa.eu/hr/eu/aqd>

14.6 EIONET – CENTRAL DATA REPOSITORY

- EUROPEAN AIR QUALITY PORTAL

<http://eeadmz1-cws-wp-air.azurewebsites.net/>



CDR can be accessed via European **Air Quality Portal** developed and maintained by the European Environment Agency **EEA**

This portal contains technical details and services that facilitate the reporting of official air quality information from EU Member States and other EEA member and co-operating countries. This information is submitted according to Directives 2004/107/EC and 2008/50/EC of the European Parliament and of the Council. The rules for this exchange are set out in the [Commission implementing decision 2011/850/EU](#). The portal is maintained by the European Environment Agency (EEA).

Officially published air quality information is available through the [website of the EEA](#).
Comments and suggestions on this website should be addressed to the [AQ IPR helpdesk](#).

LATEST NEWS

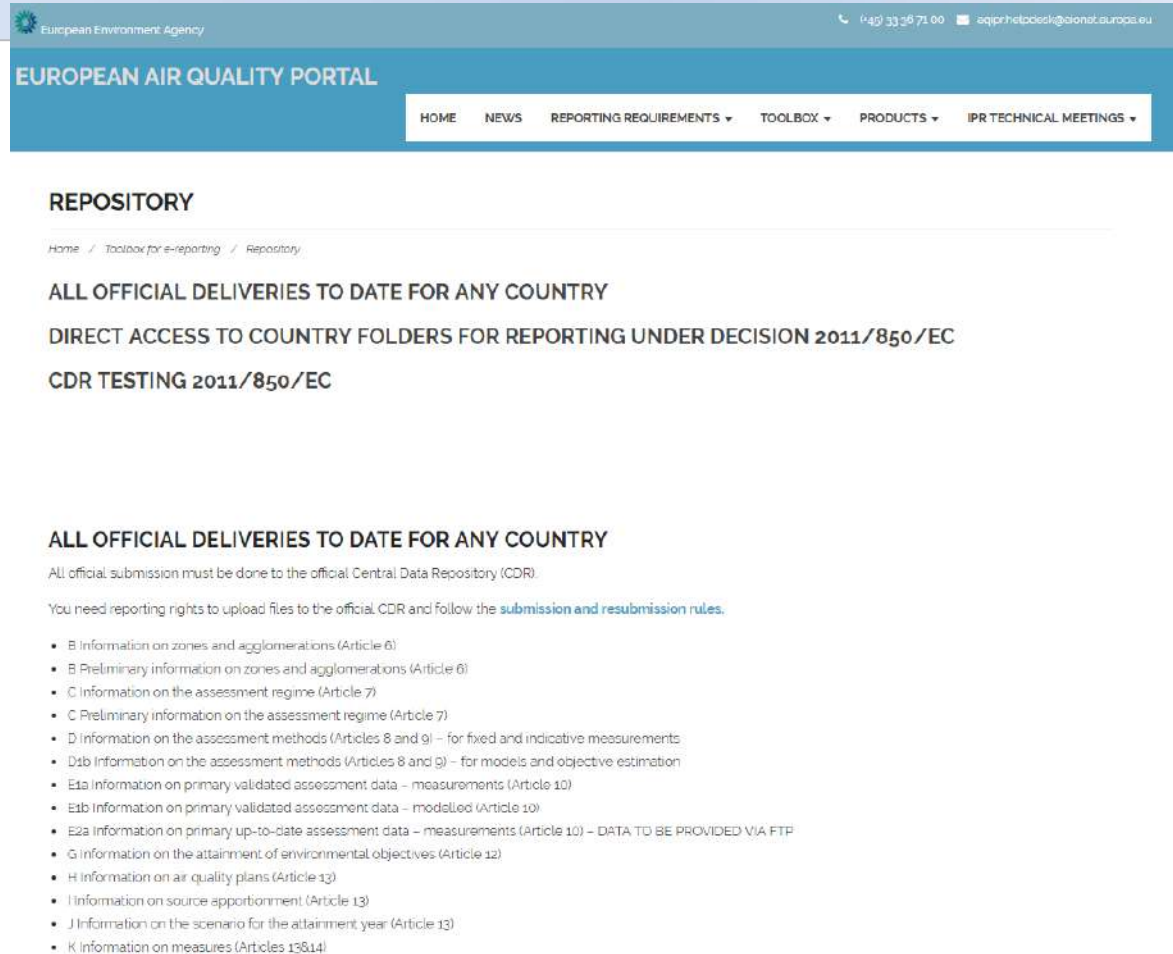
IMPORTANT DOCUMENTS

LINKS

SEARCH

14.6 EIONET – CENTRAL DATA REPOSITORY

From here all officially submitted air quality data that are obligatory delivered according to Decision 2011/850 / EC can be accessed....



The screenshot shows the European Environment Agency's European Air Quality Portal. The page title is "REPOSITORY". Below the title, there is a breadcrumb trail: "Home / Toolbox for e-reporting / Repository". The main content area lists several key features and links:

- ALL OFFICIAL DELIVERIES TO DATE FOR ANY COUNTRY**
- DIRECT ACCESS TO COUNTRY FOLDERS FOR REPORTING UNDER DECISION 2011/850/EC**
- CDR TESTING 2011/850/EC**
- ALL OFFICIAL DELIVERIES TO DATE FOR ANY COUNTRY**

Below the second "ALL OFFICIAL DELIVERIES TO DATE FOR ANY COUNTRY" heading, there is a note: "All official submission must be done to the official Central Data Repository (CDR)." and a link to "submission and resubmission rules".

- B Information on zones and agglomerations (Article 6)
- B Preliminary information on zones and agglomerations (Article 6)
- C Information on the assessment regime (Article 7)
- C Preliminary information on the assessment regime (Article 7)
- D Information on the assessment methods (Articles 8 and 9) – for fixed and indicative measurements
- Dsb Information on the assessment methods (Articles 8 and 9) – for models and objective estimation
- E1a Information on primary validated assessment data – measurements (Article 10)
- E1b Information on primary validated assessment data – modelled (Article 10)
- E2a Information on primary up-to-date assessment data – measurements (Article 10) – DATA TO BE PROVIDED VIA FTP
- G Information on the attainment of environmental objectives (Article 12)
- H Information on air quality plans (Article 13)
- I Information on source apportionment (Article 13)
- J Information on the scenario for the attainment year (Article 13)
- K Information on measures (Articles 13&14)

<http://eadmz1-cws-wp-air.azurewebsites.net/toolbox-for-e-reporting/repository/>

14.6 EIONET – CENTRAL DATA REPOSITORY

Data on CDR for Croatia

All data – from B to G and from H to K

Each type of data is in a separate folder

The screenshot shows the EIONET Central Data Repository interface. The main heading is 'Reporting under air quality directives 2004/107/EC and 2008/50/EC'. Below this, there is a section titled 'Envelopes and subcollections' which lists various data folders with their last modification dates:

Folder Name	Last Modified
(B) Information on zones and agglomerations (Article 6)	14 Sep 2017
(B) Preliminary information on zones and agglomerations (Article 6)	24 Apr 2017
(C) Information on the assessment regime (Article 7)	15 Sep 2017
(C) Preliminary information on the assessment regime (Article 7)	28 Dec 2016
(D) Information on the assessment methods (Articles 8 and 9)	26 Sep 2017
(D1b) Information on the assessment methods (Articles 8 and 9) - for models and objective estimation	21 Sep 2017
(E1a) Information on primary validated assessment data - measurements (Article 10)	27 Sep 2017
(E1b) Information on primary validated assessment data - modelled (Article 10)	09 Oct 2015
(E2a) Information on primary up-to-date assessment data - measurements (Article 10)	08 Sep 2014
(F1a) Information on generated aggregated data - primary validated measurements (Article 11)	08 Sep 2014
(F1b) Information on generated aggregated data - primary validated modelled (Article 11)	09 Oct 2015
(F2) Information on generated aggregated data - primary up-to-date measurements (Article 11)	08 Sep 2014
(G) Information on the attainment of environmental objectives (Article 12)	27 Sep 2017
(H) Information on air quality plans (Article 13)	06 Feb 2017
(I) Information on source apportionment (Article 13)	06 Feb 2017
(J) Information on the scenario for the attainment year (Article 13)	07 Feb 2017
(K) Information on measures (Articles 13 and 14)	07 Feb 2017

Document last modified 2016/12/27. [Legal notice](#)

<http://cdr.eionet.europa.eu/hr/eu/aqd>

14.6 EIONET – CENTRAL DATA REPOSITORY

Data on CDR for Croatia

In each type of data, there are folders by years of delivery - the latest maps for each year contain the most recent sent data – those are the valid ones

The screenshot shows the EIONET Central Data Repository interface. At the top, there is a navigation bar with 'SERVICES', 'REPORTNET', 'TOOLS', and 'TOPICS (ETCS)'. Below this is a breadcrumb trail: 'You are here: Eionet > CDR > Croatia > European Union (EU) obligations > Reporting under air quality directives 2004/107/EC and 2008/50/EC > (G) Information on the attainment of environmental objectives (Article 12)'. The main content area is titled '(G) Information on the attainment of environmental objectives (Article 12)' and includes a sub-section for 'Envelopes and subcollections'. A list of folders is displayed with their corresponding dates:

2016-v1	28 Sep 2017
2013-fin 4 addendum	10 Aug 2017
2015-v4	28 Dec 2016
2015-v3	22 Dec 2016
2015-v2	07 Oct 2016
2015-v1	13 Sep 2016
2014-v1	30 Sep 2015
2013-fin_3	24 Dec 2014
2013-fin_2	14 Nov 2014
2013-fin	30 Sep 2014
test	02 Sep 2014

On the left side of the page, there are sections for 'Services' (Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, Help) and 'Account Services' (I have lost my password, Note). A footer note states: 'Document last modified 2017/09/27. [Legal notice](#)'.

<http://cdr.eionet.europa.eu/hr/eu/aqd/g/>

14.6 EIONET – CENTRAL DATA REPOSITORY

Each folder

contains:

- the obligation to report,
- the period for which is to be reported,
- the date when data was published,
- status (whether it's done and whether the data is available to the public or delivery is still in progress)

EEA | Login | Home

EIONET Central Data Repository

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet» CDR» Croatia» European Union (EU) obligations» Reporting under air quality directives 2004/107/EC and 2008/50/EC» (G) Information on the attainment of environmental objectives (Article 12)» 2016-v1

Services

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

I have

- » lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Overview | History | Data quality

2016-v1

Zip envelope

Description

Obligations (G) Information on the attainment of environmental objectives (Article 12)

Period 2016 - Whole Year

Coverage Croatia

Reported 28 Sep 2017 09:12

Status Envelope is complete

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

1	HR_G_20170927143359756.xml	27 Sep 2017	325 KB
---	--	-------------	--------

Feedback for this envelope

- [AutomaticQA result for file HR_G_20170927143359756.xml: Check Obligations](#) (Posted automatically on 28 Sep 2017)
- [AutomaticQA result for file HR_G_20170927143359756.xml: XML Schema validation](#) (Posted automatically on 28 Sep 2017)
- [AutomaticQA result for AirQuality Dataflow G](#) (Posted automatically on 28 Sep 2017)
- [Confirmation of receipt](#) (Posted automatically on 28 Sep 2017)
- [Technically accepted](#) (Posted automatically on 28 Sep 2017)

Document last modified 2017/09/28. [Legal notice](#)

<http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwcbcw/>

14.6 EIONET – CENTRAL DATA REPOSITORY

Each folder contains

- .xml file with submitted data and date of delivery

EEA | Login

EIONET Central Data Repository

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: Eionet > CDR > Croatia > European Union (EU) obligations > Reporting under air quality directives 2004/107/EC and 2008/50/EC > (G) Information on the attainment of environmental objectives (Article 12) > 2016-v1

Services

- >> Search by obligation
- >> Search XML files
- >> Search for feedback
- >> Global worklist
- >> Notifications
- >> Help

Account Services

I have

- >> lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Overview | History | Data quality

2016-v1

Zip envelope

Description

Obligations (G) Information on the attainment of environmental objectives (Article 12)

Period 2016 - Whole Year

Coverage Croatia

Reported 28 Sep 2017 09:12

Status Envelope is complete

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s)

Files in this envelope

File Name	Date	Size
1 HR_G_20170927143359756.xml	27 Sep 2017	325 KB

Check for this envelope

- [AutomaticQA result for file HR_G_20170927143359756.xml: Check Obligations](#) (Posted automatically on 28 Sep 2017)
- [AutomaticQA result for file HR_G_20170927143359756.xml: XML Schema validation](#) (Posted automatically on 28 Sep 2017)
- [AutomaticQA result for: AirQuality Dataflow G](#) (Posted automatically on 28 Sep 2017)
- [Confirmation of receipt](#) (Posted automatically on 28 Sep 2017)
- [Technically accepted](#) (Posted automatically on 28 Sep 2017)

Document last modified 2017/09/28. [Legal notice](#)

<http://cdr.eionet.europa.eu/hr/eu/aad/g/envwcbcw/>

14.6 EIONET – CENTRAL DATA REPOSITORY

Each folder contains links to:

- Automatic QA checks that every.xml file has to pass
- Confirmation receipt of file from EEA
- Confirmation that the file is technically accepted

EEA | Login

EIONET Central Data Repository

SERVICES REPORTNET TOOLS TOPICS (ETCS)

You are here: Eionet > CDR > Croatia > European Union (EU) obligations > Reporting under air quality directives 2004/107/EC and 2008/50/EC > (G) Information on the attainment of environmental objectives (Article 12) > 2016-v1

Services

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

I have

- » lost my password

Note

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2016-v1 Zip envelope

Overview History Data quality

Description

Obligations (G) Information on the attainment of environmental objectives (Article 12)

Period 2016 - Whole Year

Coverage Croatia

Reported 28 Sep 2017 09:12

Status Envelope is complete

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

1	HR_G_20170927143359756.xml	27 Sep 2017	325 Kb
---	----------------------------	-------------	--------

Feedback for this envelope

- [AutomaticQA result for file HR_G_20170927143359756.xml: Check Obligations](#) (Posted automatically on 28 Sep 2017)
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- [Confirmation of receipt](#) (Posted automatically on 28 Sep 2017)
- [Technically accepted](#) (Posted automatically on 28 Sep 2017)

Document last modified 2017/09/28. [Legal notice](#)

<http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwcbcw/>

14.6 EIONET – CENTRAL DATA REPOSITORY

QA checks - every.xml files has to pass QA checks:
 If there are BLOCKERs – file shall not be accepted...
 If there are ERRORs– file shall be accepted but the reason for ERROR has to be explained...

Services
 Search by obligation
 Search XML files
 Search for feedback
 Global worklist
 Notifications
 Help

Account Service
 I have
 lost my password

Note
 Subscribe to receive notifications if you want to stay updated about events in this site.

Checked XML file: http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwucbcw/HR_G_20170927143359756.xml [Back to envelope](#)

The envelope is attached to the following obligation: <http://rod.eionet.europa.eu/obligations/679>

Check air quality attainment of environmental objectives - Dataflow G

This XML file passed all BLOCKER checks.

This XML file passed all ERROR checks.

This check evaluated the delivery by executing the tier-1 tests on air quality assessment regimes data in Dataflow G as specified in e-reporting QA/QC rules documentation.

How to read the test results

All test results are labeled with coloured bullets. The number in the bullet refers to the rule code. The background colour of the bullets means:

- Blue** - the data confirms to the rule, but additional feedback could be provided in QA result.
- Red** - the crucial check did NOT pass and erroneous records found from the delivery.
- Light Red** - the serious check did NOT pass and erroneous records found from the delivery.
- Orange** - the non-crucial check did NOT pass.
- Grey** - the check was skipped due to no relevant values found to check

Click on the "Show Records" link to see more details about the test result.

Test results

NS	Check that the XML correctly provides XML's prefix/namespaces?	All values are valid
G9	Checks if this delivery is new or an update (on same reporting year)?	New delivery for 2016
G01	Number of Attainments reported?	170 Show Records
G99	Number of new Attainments compared to previous report. ERROR will be returned if XML is a	170 s found Show

http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwucbcw/AutomaticQA_418322/qa-output/view

14.6 EIONET – CENTRAL DATA REPOSITORY

Result interpretation of QA check:

Blue – data go through QA checks

Dark red- key test not passed=
BLOCKER – file not accepted.

Red – serious check would not pass
= ERROR – file shall be accepted
but the reason for ERROR has to
be explained.

Orange – non-key test not passed
– clarification and check are
required subsequently

Grey – test was skipped due to
unavailable data

EIONET
Central Data Repository

SERVICES | REPORTNET | TOOLS | TOPICS (ETCS)

You are here: EIONET > CDR > Croatia > European Union (EU) obligations > Reporting under air quality directives 2004/107/EC and 2008/50/EC > (G) Information on the attainment of environmental objectives (Article 12) > 2015-91 > AutomaticQA result for file HR_G_20170927143359756.xml: Check Obligations > qa-output

Services

- Search by obligation
- Search XML files
- Search for feedback
- Global worklist
- Notifications
- Help

Account Services

I have

- lost my password

Note

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Checked XML file: http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwucbcw/HR_G_20170927143359756.xml [Back to envelope](#)

The envelope is attached to the following obligation: <http://rod.eionet.europa.eu/obligations/679>

Check air quality attainment of environmental objectives - Dataflow G

This XML file passed all BLOCKER checks.

This XML file passed all ERROR checks.

This check evaluated the delivery by executing the tier-1 tests on air quality assessment regimes data in Dataflow G as specified in e-reporting QA/QC rules documentation.

How to read the test results

All test results are labeled with coloured bullets. The number in the bullet refers to the rule code. The background colour of the bullets means:

- Blue** - the data confirms to the rule, but additional feedback could be provided in QA result.
- Dark red** - the crucial check did NOT pass and erroneous records found from the delivery.
- Red** - the serious check did NOT pass and erroneous records found from the delivery.
- Orange** - the non-crucial check did NOT pass.
- Grey** - the check was skipped due to no relevant values found to check.

Click on the "Show Records" link to see more details about the test result.

Test results

NS	Check that the XML correctly provides XML's prefix/namespaces?	All values are valid
G9	Checks if this delivery is new or an update (on same reporting year)?	New delivery for 2016
G01	Number of Attainments reported?	170 Show Records
G02	Number of new Attainments compared to previous report. ERROR will be returned if XML is a	170 s found Show

http://cdr.eionet.europa.eu/hr/eu/aqd/g/envwucbcw/AutomaticQA_418322/qa-output/view

14.6 EIONET – CENTRAL DATA REPOSITORY

Feedback of receipt confirmation and confirmation that the file is technically accepted is obtained only after the .xml file has passed all QA checks

The screenshot shows the EIONET Central Data Repository homepage. The header includes the EEA logo and the text 'EIONET Central Data Repository'. Below the header is a navigation bar with tabs for SERVICES, REPORTNET, TOOLS, and TOPICS (ETCS). The main content area displays a message: 'Feedback: Technically accepted'. The message details include: Subject: Technically accepted, Posted automatically on: 28 Sep 2017 09:12, Feedback status: empty, and Feedback message: empty. A note below the message states: 'Delivered data have been technically accepted by the EEA.' The left sidebar contains sections for Services (Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, Help) and Account Services (I have, lost my password, Note, Subscribe to receive notifications, lost my password). The footer contains the text 'Document last modified 2017/09/28. Legal notice'.

The screenshot shows the 'Feedback: Confirmation of receipt' page. The header includes the EEA logo and the text 'EIONET Central Data Repository'. Below the header is a navigation bar with tabs for SERVICES, REPORTNET, TOOLS, and TOPICS (ETCS). The main content area displays a message: 'Feedback: Confirmation of receipt'. The message details include: Subject: Confirmation of receipt, Posted automatically on: 28 Sep 2017 09:12. A note below the message states: 'Delivered data have been technically accepted by the EEA.' The left sidebar contains sections for Services (Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, Help) and Account Services (I have, lost my password, Note, Subscribe to receive notifications, lost my password). The footer contains the text 'Document last modified 2017/09/28. Legal notice'.

<http://cdr.eionet.europa.eu/hr/eu/aad/g/enwucubcw/feedback1506515723>

<http://cdr.eionet.europa.eu/hr/eu/aad/g/enwucubcw/feedbackTA>



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Energy Research and Environmental Protection Institute



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