

Primaria Recas

MONTHLY AIR-QUALITY REPORT

Timp de la: **01/12/2025, 00:00**
Timp până la: **30/12/2025, 23:59**

Numele dispozitivului: **Primaria Recas**
Locația dispozitivului: **Calea Timișoarei 134 - 135, Recaş 307340, Romania**

Parametrii: **EAQI , NO₂ , O₃ , SO₂ , PM_{2.5} , PM₁₀ , Wind Speed , Wind Direction , CO , R. Humidity , PM₁ , PM₁₀₀ , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **285**

Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

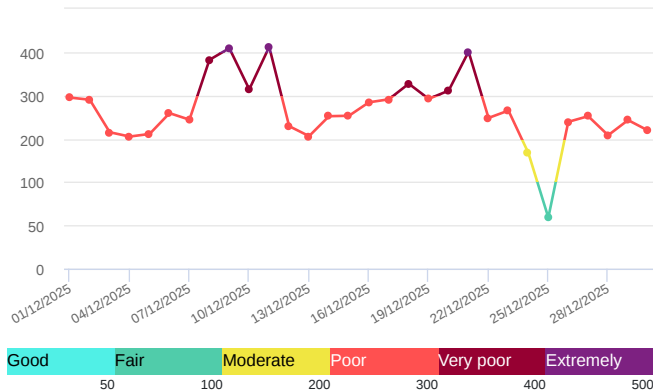
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	285	13.99	15.34	0.78	34.71	92.42
Maximum	412	25.09	26.63	2.49	83.45	275.84
Date	11/12/2025	17/12/2025	28/12/2025	25/12/2025	11/12/2025	11/12/2025
Minimum	59	0.14	7.47	0	8.68	23.41
Date	25/12/2025	25/12/2025	17/12/2025	06/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

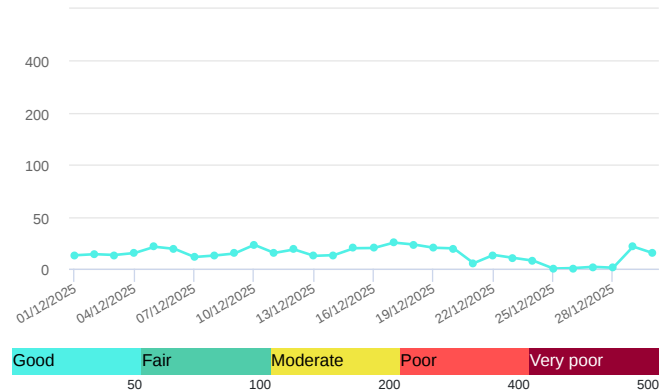
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure hPa	Temperature °C
Average	0.79	102.77	100	524.99	81.02	29.91	148.77	1011.11	5.76
Maximum	3.27	98.16	100	752.25	88.49	52.23	668.77	1018.84	12.3
Date	04/12/2025	04/12/2025	01/12/2025	10/12/2025	11/12/2025	21/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.06	111.25	100	342.73	69.33	7.73	40.42	999.09	-1.61
Date	13/12/2025	13/12/2025	01/12/2025	25/12/2025	05/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

Weekly Average

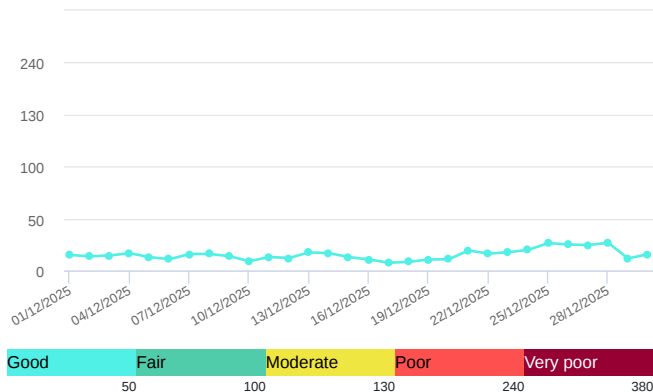
EAQI (AQI)



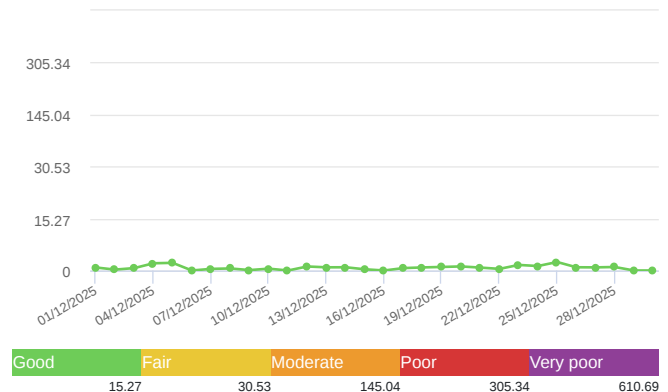
NO₂ (µg/m³)



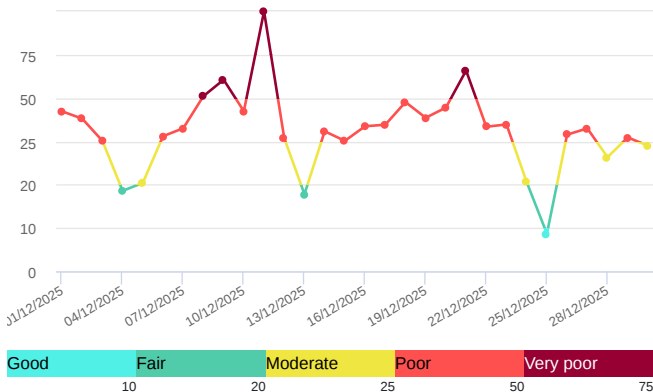
O₃ (µg/m³)



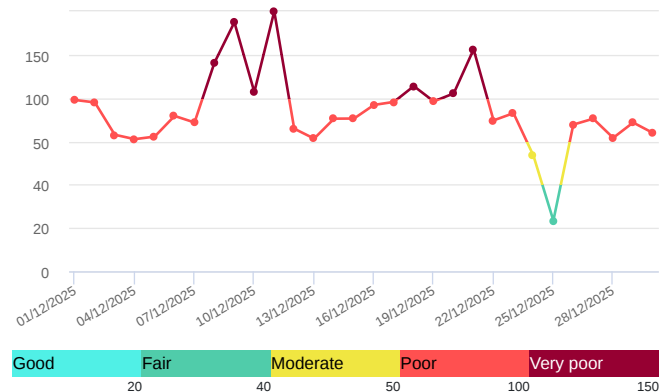
SO₂ (ppb)



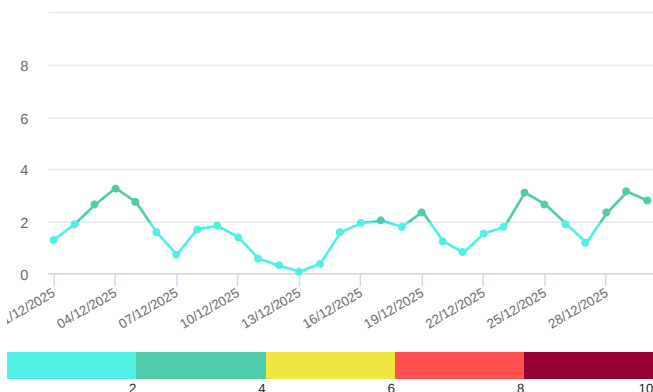
PM_{2.5} (µg/m³)



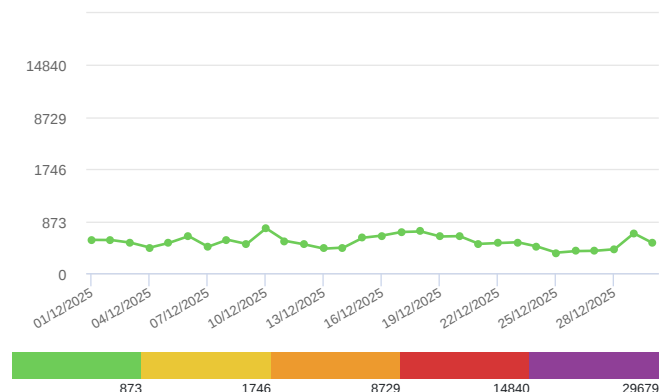
PM₁₀ (µg/m³)



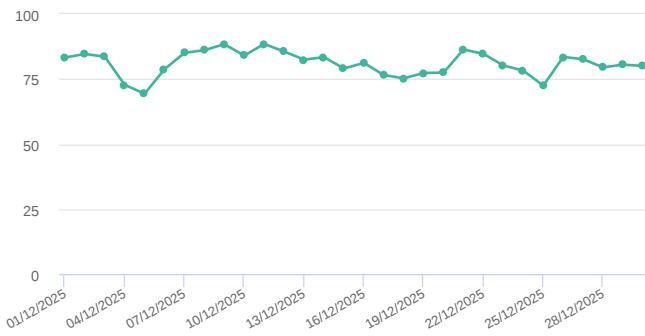
Wind Speed (m/s)



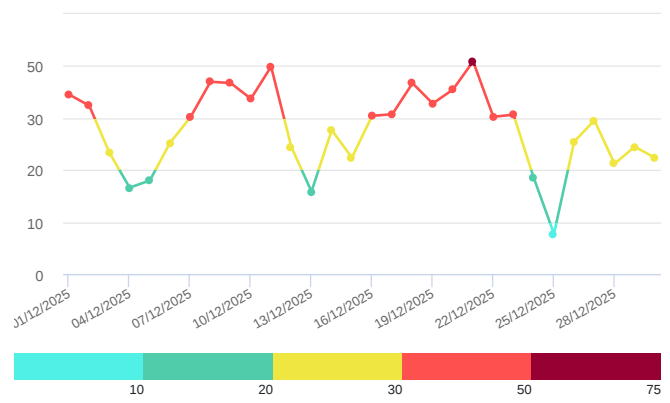
CO (ppb)



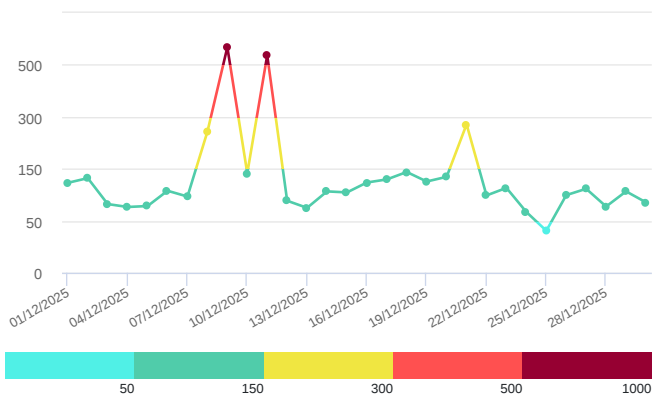
R. Humidity (%)



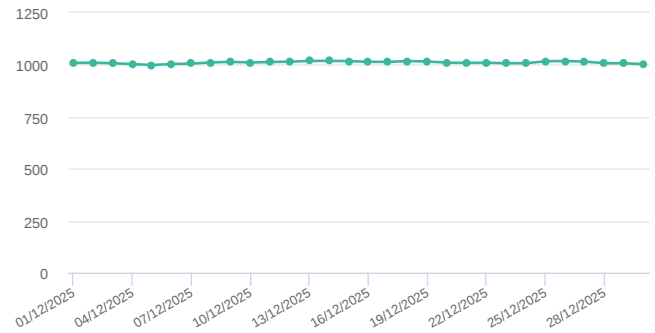
PM₁ (µg/m³)



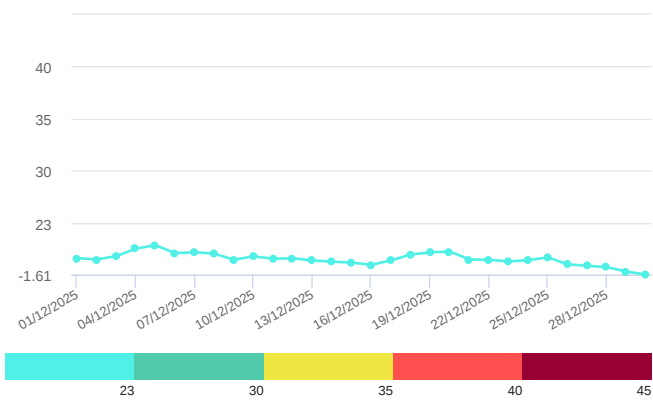
PM₁₀₀ (µg/m³)



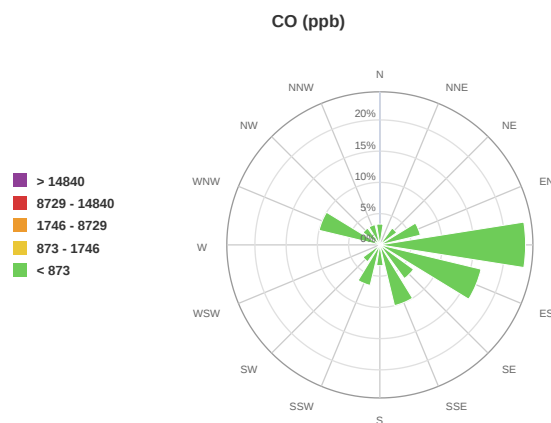
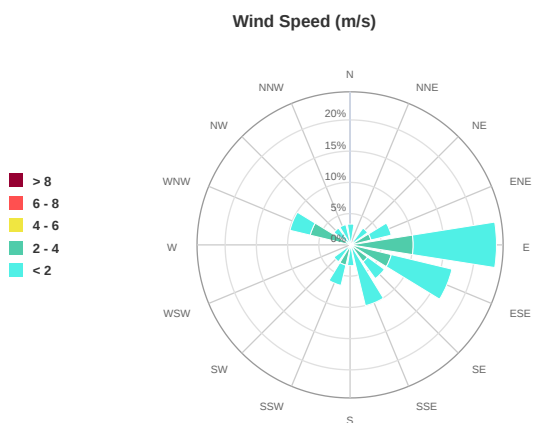
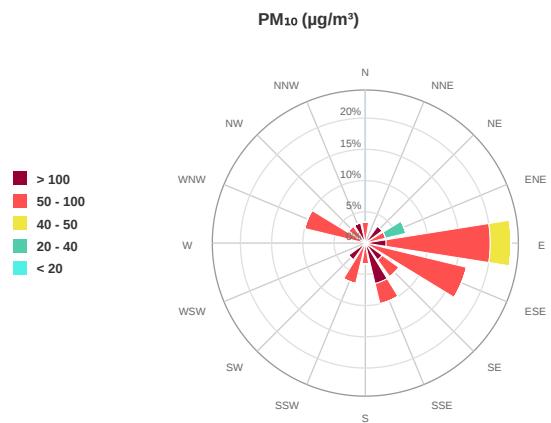
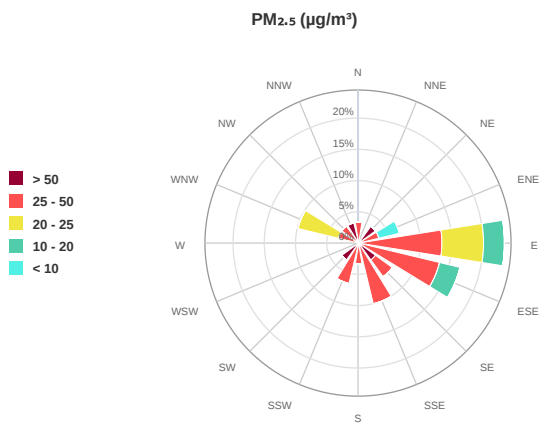
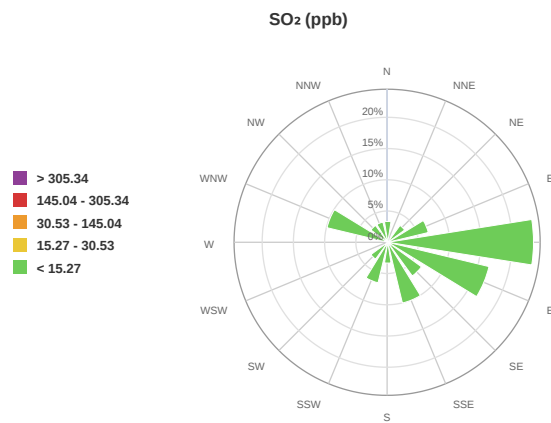
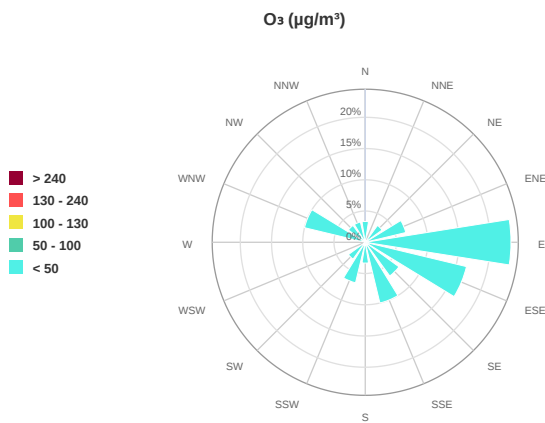
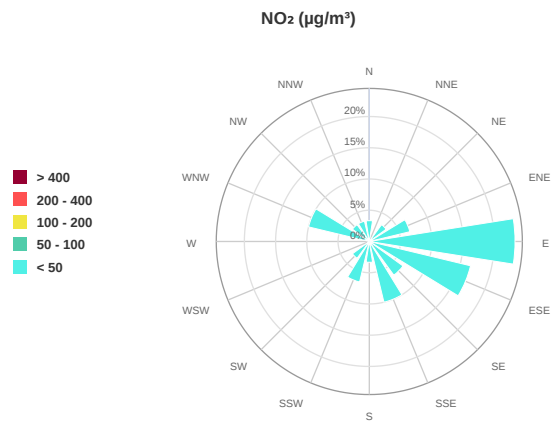
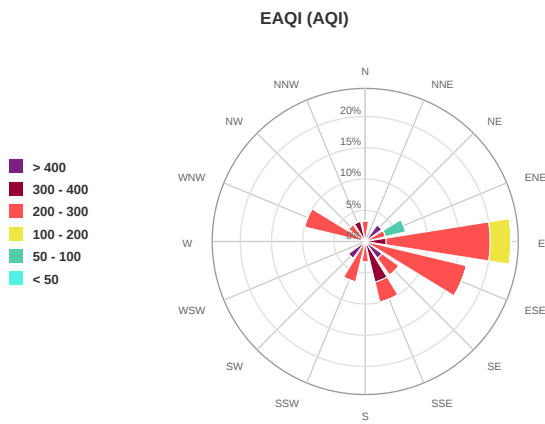
Pressure (hPa)



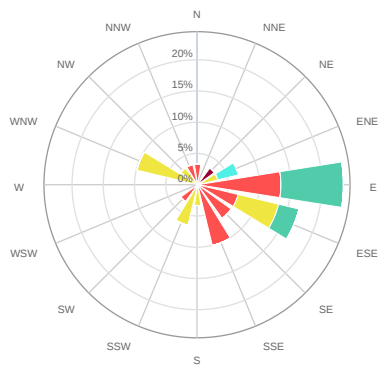
Temperature (°C)



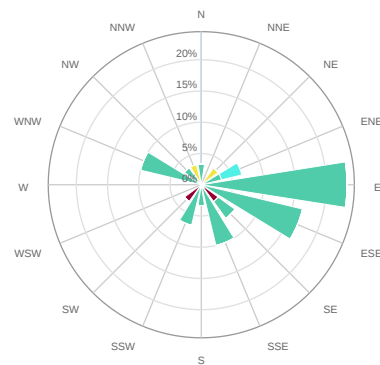
Weekly Average



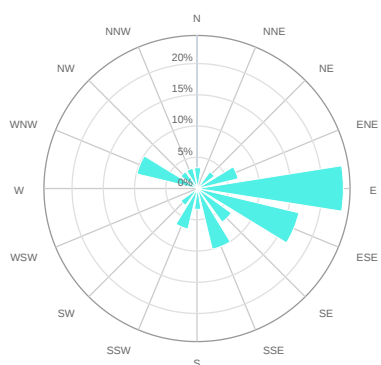
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI consistently in 'Poor' to 'Extremely Poor' range**: The EAQI is predominantly in the 'Poor' to 'Extremely Poor' range, indicating significant air quality concerns throughout the reported period. The worst EAQI recorded 412.
- 30/12/2025, 23:59 **PM_{2.5} levels frequently exceed safe limits**: PM_{2.5} levels frequently exceed the 'Good' and 'Fair' thresholds, with many days falling into the 'Poor' to 'Very Poor' categories, posing health risks. Recorded peak 83.45 µg/m³.
- 30/12/2025, 23:59 **PM₁₀ levels show significant pollution**: PM₁₀ levels are high, often reaching 'Poor' and 'Very Poor' levels, indicating substantial coarse particulate matter pollution. Recorded peak 275.84 µg/m³.
- 30/12/2025, 23:59 **NO₂ levels mostly in 'Good' to 'Fair' range**: NO₂ levels generally fall within the 'Good' to 'Fair' ranges. However, some measurements reach 'Moderate' level requiring attention.
- 30/12/2025, 23:59 **O₃ levels fluctuate, but generally within acceptable limits**: O₃ levels vary, with most values within the 'Good' to 'Moderate' range. Some days show ozone levels within the 'Fair' range.
- 30/12/2025, 23:59 **SO₂ levels consistently low**: SO₂ levels are consistently low and stay within the 'Good' zone, indicating minimal sulfur dioxide pollution during the examined period.
- 30/12/2025, 23:59 **High EAQI correlates with high PM_{2.5} and PM₁₀**: Days with 'Very Poor' and 'Extremely Poor' EAQI values also exhibit significantly elevated PM_{2.5} and PM₁₀ concentrations, indicating their contribution.
- 30/12/2025, 23:59 **Wind speed shows no clear correlation with EAQI**: Variations in wind speed do not exhibit a clear or consistent relationship with the overall EAQI or individual pollutant levels.
- 30/12/2025, 23:59 **Humidity relatively high throughout the period**: Relative humidity remains relatively high throughout the period, generally above 70%, which could influence particulate matter behavior.
- 30/12/2025, 23:59 **Temperature fluctuations during monitoring period**: Temperature fluctuates throughout the period, ranging from -1.61 to 12.3 degrees Celsius, which can impact atmospheric conditions.
- 11/12/2025, 23:59 **EAQI peak observed on December 11th**: The highest recorded EAQI value of 412, categorized as 'Extremely Poor,' occurred on December 11th, signaling the period of most severe air quality.
- 25/12/2025, 23:59 **Lower EAQI observed on December 25th**: The lowest recorded EAQI value of 59, categorized as 'Fair,' occurred on December 25th, signaling the period of best air quality.
- 30/12/2025, 23:59 **Elevated CO levels could contribute to EAQI**: CO levels frequently exceed 500 ppb, suggesting significant carbon monoxide pollution contributing to the overall EAQI values.
- 30/12/2025, 23:59 **Pressure variations show minor fluctuations**: Atmospheric pressure exhibits minor fluctuations, ranging from 999.09 to 1018.84 hPa, indicating relatively stable weather conditions.
- 30/12/2025, 23:59 **Wind direction varies considerably**: Wind direction changes significantly throughout the monitoring period, ranging from 10.2 to 347.41 degrees, implying diverse source influences.
- 30/12/2025, 23:59 **PM₁₀₀ shows very high concentration**: PM₁₀₀ shows very high concentration, recorded peak 668.77 µg/m³, which is related to the level of dust.
- 30/12/2025, 23:59 **PM₁ shows moderate concentration**: PM₁, a finer particulate matter, has moderate presence with the highest value of 52.23 µg/m³ during period of extremely poor AQI.
- 30/12/2025, 23:59 **Battery level is consistent at 100%**: Battery level stays at 100% for all reading times which rules out battery level causing variations in sensor reading.
- 30/12/2025, 23:59 **SO₂ levels are consistently good**: The SO₂ levels are consistently within the 'Good' range across all the readings, indicating minimal impact from SO₂.
- 24/12/2025, 23:59 **Moderate EAQI associated with PM_{2.5} within 'Fair' range**: On December 24th, with an EAQI of 167 (Moderate), PM_{2.5} was 20.29 µg/m³, lying within the 'Fair' range.
- 30/12/2025, 23:59 **Temperature and PM_{2.5} inverse correlation**: There is an inverse relationship between temperature and PM_{2.5} values, PM_{2.5} values are high when temperature readings are low.
- 30/12/2025, 23:59 **SO₂ values are consistent**: SO₂ values are low and consistent, does not seem to be a factor impacting the air quality during the period.
- 30/12/2025, 23:59 **Correlation between CO and EAQI**: High CO values correlate to elevated EAQI readings in air quality parameters.
- 25/12/2025, 23:59 **Specific day shows improved air quality**: December 25th exhibits a 'Fair' EAQI which indicates temporary relief from pollution.
- 25/12/2025, 23:59 **O₃ levels on Fair AQI day**: O₃ level on the Fair AQI day is within the moderate range, with a value of 51.69 µg/m³.
- 30/12/2025, 23:59 **High PM₁₀₀ readings on extremely poor AQI days**: The PM₁₀₀ readings show high numbers on extremely poor AQI days which needs investigation.
- 30/12/2025, 23:59 **Variable wind speed and its impact on AQI**: There is no clear relationship between wind speed readings and pollution as data shows readings are variable.
- 30/12/2025, 23:59 **High Relative Humidity and Particulate Matter correlation**: High relative humidity level probably causes an increase in the levels of particulate matter, especially PM_{2.5}.

- 30/12/2025, 23:59 **Higher CO readings on poor air quality days.:** Higher carbon monoxide readings on poor air quality days likely lead to poor EAQI reading.
- 30/12/2025, 23:59 **Most PM2.5 values lie above the moderate threshold.:** Most PM2.5 values lie above the moderate threshold which leads to EAQI readings in the poor and very poor levels.

Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
01/12/2025, 23:59	295	12.89	14.93	0.88	42.32	97.74
02/12/2025, 23:59	290	13.96	13.67	0.26	38.08	94.92
03/12/2025, 23:59	215	13.18	14.43	0.7	25.27	57.59
04/12/2025, 23:59	205	15.11	16.66	2.12	18.56	52.51
05/12/2025, 23:59	211	21.1	12.83	2.24	20.21	55.45
06/12/2025, 23:59	259	19.03	10.79	0	27.94	79.28
07/12/2025, 23:59	244	11.26	15.84	0.48	32.54	71.77
08/12/2025, 23:59	382	12.64	15.88	0.6	51.1	140.8
09/12/2025, 23:59	409	14.61	13.8	0.12	60.56	244.08
10/12/2025, 23:59	314	22.93	8.95	0.53	42.37	106.88
11/12/2025, 23:59	412	15.14	12.94	0	83.45	275.84
12/12/2025, 23:59	229	18.48	12.05	1.18	26.8	64.62
13/12/2025, 23:59	206	12.35	17.4	0.93	17.8	53.17
14/12/2025, 23:59	252	13.04	16.69	0.95	30.81	76.16
15/12/2025, 23:59	253	19.7	12.88	0.35	25.27	76.3
16/12/2025, 23:59	284	19.89	10.6	0	33.69	92.01
17/12/2025, 23:59	291	25.09	7.47	0.71	34.57	95.51
18/12/2025, 23:59	327	23.27	8.31	0.9	47.64	113.72
19/12/2025, 23:59	292	20.17	10.61	1.04	38.6	96.11
20/12/2025, 23:59	311	19.53	10.82	1.19	44.44	105.27
21/12/2025, 23:59	401	5.23	19.21	0.85	65.85	165.53
22/12/2025, 23:59	248	13.25	16.27	0.47	33.39	74.13
23/12/2025, 23:59	265	10.41	17.61	1.64	34.74	82.52
24/12/2025, 23:59	167	7.72	19.86	1.31	20.29	46.7
25/12/2025, 23:59	59	0.14	26.33	2.49	8.68	23.41
26/12/2025, 23:59	239	0.61	25.01	0.94	28.88	69.28
27/12/2025, 23:59	252	1.81	24.45	0.92	32.44	76.08
28/12/2025, 23:59	208	0.93	26.63	1.03	23.17	54.01
29/12/2025, 23:59	243	21.32	11.56	0	27.24	71.71
30/12/2025, 23:59	219	14.97	15.71	0	24.5	59.59

Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.29	166	100	557.42	83.25	39.05	123.05	1009.24	6.17
02/12/2025, 23:59	1.88	103.6	100	554.94	84.62	34.74	131.99	1010.29	5.56
03/12/2025, 23:59	2.63	106.4	100	510.7	83.62	23.29	82.05	1007.49	7.08
04/12/2025, 23:59	3.27	98.16	100	428.47	72.76	16.6	76.5	1003.14	10.65
05/12/2025, 23:59	2.73	84.3	100	508.62	69.33	17.98	78.35	999.09	12.3
06/12/2025, 23:59	1.57	72.59	100	621.09	78.77	25.25	107.65	1003.68	8.5
07/12/2025, 23:59	0.71	10.2	100	442.74	85.07	30.19	96.59	1005.86	8.98
08/12/2025, 23:59	1.7	347.41	100	560.36	86.08	43.94	256.9	1011.46	8.26
09/12/2025, 23:59	1.81	139.43	100	489.29	88.4	43.43	668.77	1013.96	5.38
10/12/2025, 23:59	1.38	150.03	100	752.25	84.02	37.4	141.42	1011.12	7.03
11/12/2025, 23:59	0.55	226.54	100	540.23	88.49	49.75	591.06	1013.22	5.88
12/12/2025, 23:59	0.28	173.27	100	481.03	85.56	24.44	88.51	1014.97	6.09
13/12/2025, 23:59	0.06	111.25	100	410.02	82.46	15.86	74.84	1018.55	5.05
14/12/2025, 23:59	0.36	204.33	100	428.66	83.38	27.67	106.54	1018.84	4.5
15/12/2025, 23:59	1.57	113.26	100	594.03	79.05	22.38	104.52	1017.7	4.03
16/12/2025, 23:59	1.92	85.38	100	629.89	81.19	30.81	123.63	1014.26	3.02
17/12/2025, 23:59	2.01	126.11	100	690.64	76.5	31.47	129.48	1013.9	5.08
18/12/2025, 23:59	1.78	157.21	100	699.37	75.26	43.38	143.85	1017.85	7.86
19/12/2025, 23:59	2.36	108.77	100	614.39	77.32	35.56	125.54	1015.91	8.91
20/12/2025, 23:59	1.22	90.9	100	620.32	77.47	40.94	134.47	1010.28	9.29
21/12/2025, 23:59	0.79	51.56	100	490.44	86.37	52.23	278.26	1009.3	5.54
22/12/2025, 23:59	1.52	100.87	100	504.92	84.65	30.48	98.68	1009.74	5.36
23/12/2025, 23:59	1.78	85.33	100	517.44	80.22	31.26	113.21	1007.47	4.58
24/12/2025, 23:59	3.1	87.31	100	446.93	78.19	18.49	66.77	1007.8	5.21
25/12/2025, 23:59	2.64	68.37	100	342.73	72.46	7.73	40.42	1016.93	6.5
26/12/2025, 23:59	1.9	307.3	100	369.17	83.5	25.43	99.35	1018.32	3.23
27/12/2025, 23:59	1.17	300.95	100	374.79	82.6	29.55	111.54	1015.03	2.53
28/12/2025, 23:59	2.31	290.85	100	400.85	79.48	21.2	77.37	1007.85	1.93
29/12/2025, 23:59	3.13	205.2	100	667.71	80.52	24.48	106.46	1007.01	-0.21
30/12/2025, 23:59	2.78	290.73	100	500.33	80.04	22.33	85.35	1003.09	-1.61

Oizom will not be responsible for Environmental Data accuracy once Validated