

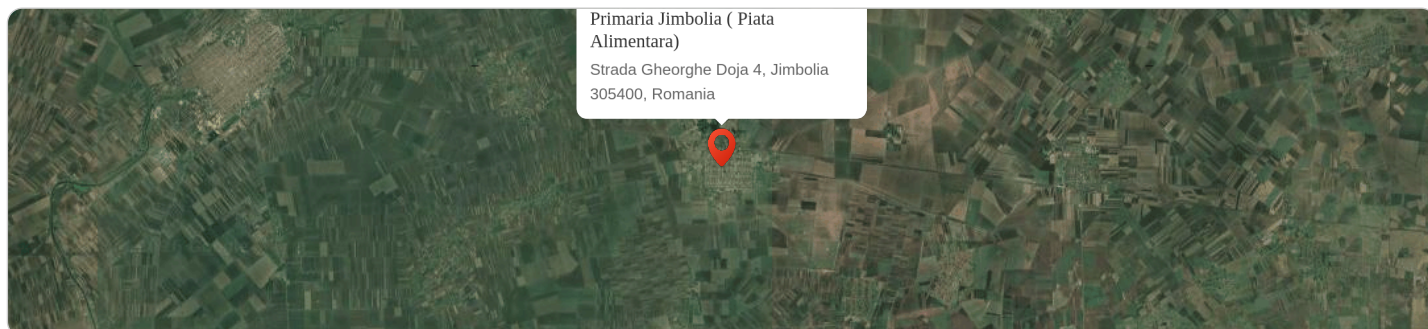
Primaria Jimbolia (Piata Alimentara)

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Jimbolia (Piata Alimentara)**
Locația dispozitivului: **Strada Gheorghe Doja 4, Jimbolia 305400, 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): **402**

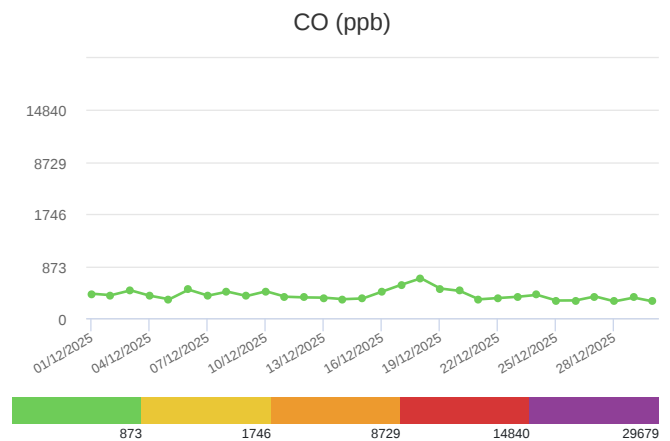
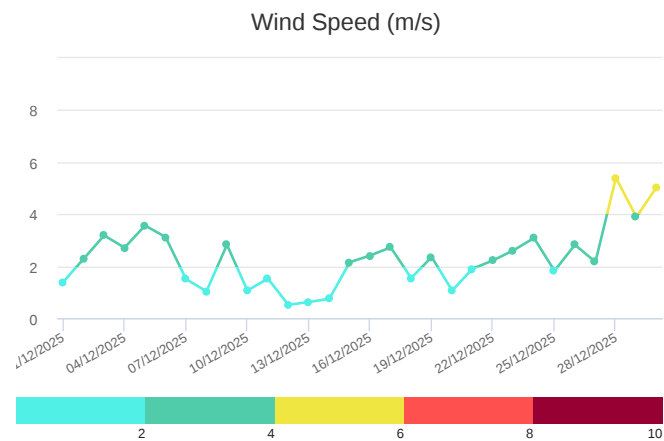
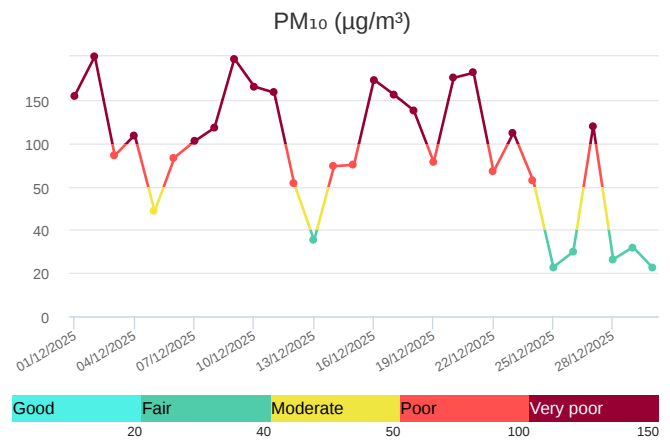
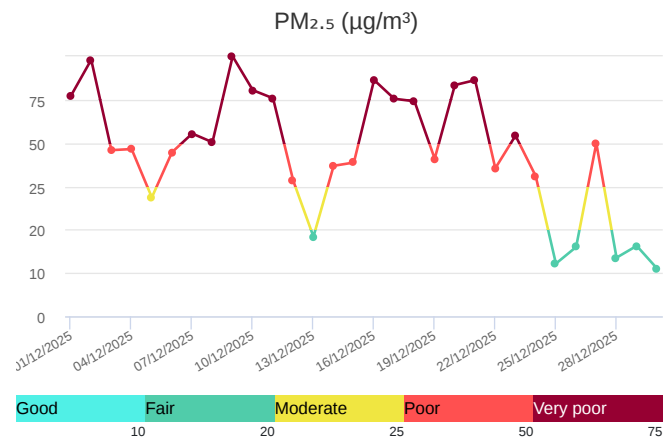
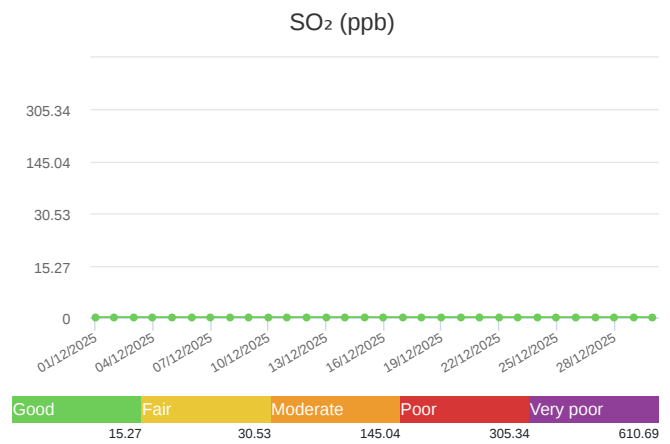
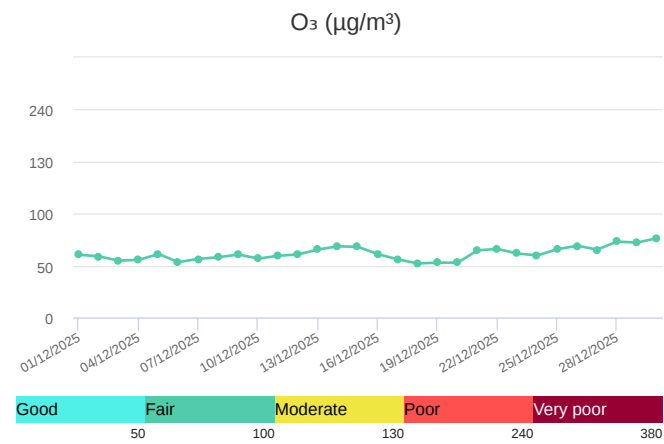
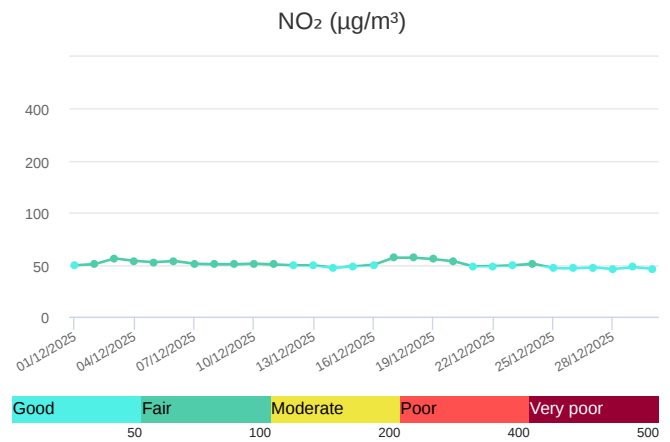
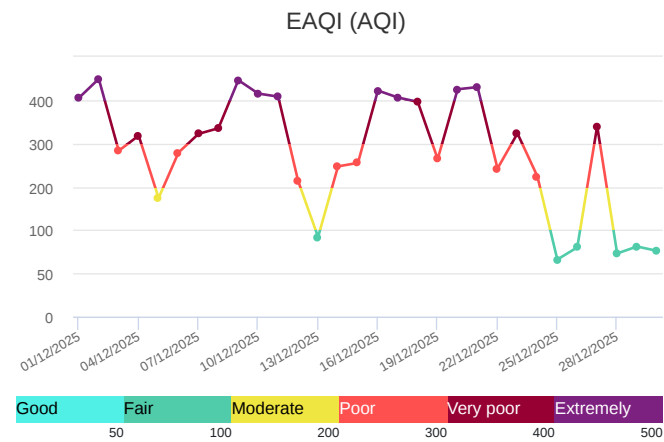
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

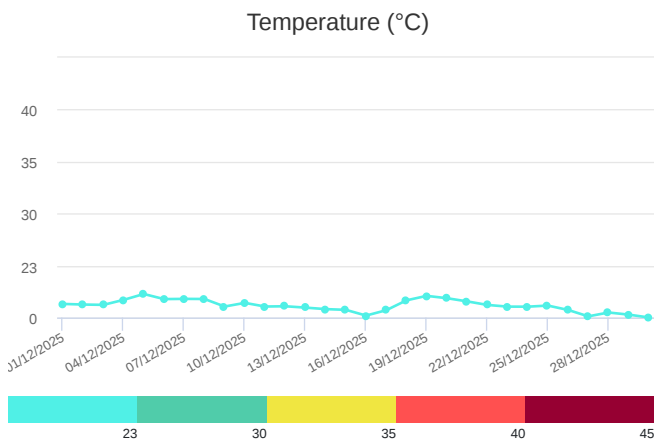
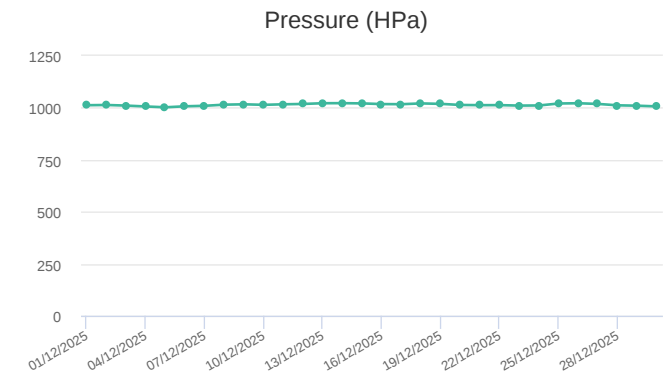
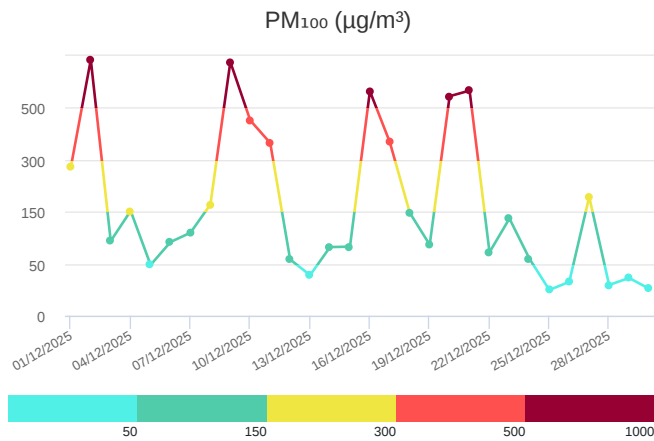
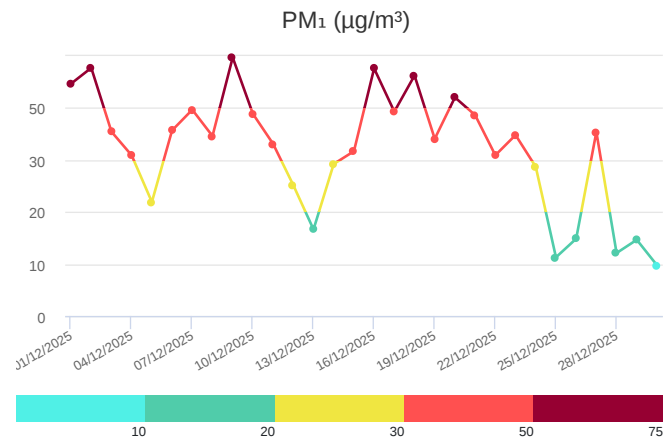
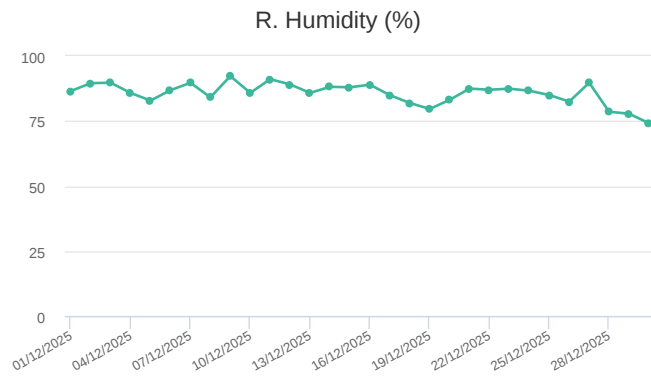
	EAQI AQI	NO ₂ µg/m³	O ₃ µg/m³	SO ₂ ppb	PM _{2.5} µg/m³	PM ₁₀ µg/m³
Average	402	50.43	61.48	0	64.7	166.35
Maximum	449	56.75	76.23	0	223.06	661.81
Date	02/12/2025	18/12/2025	30/12/2025	01/12/2025	09/12/2025	02/12/2025
Minimum	66	45.86	52.01	0	11.06	22.24
Date	25/12/2025	28/12/2025	18/12/2025	01/12/2025	30/12/2025	30/12/2025

Prezentare generală zilnică: Alți parametri

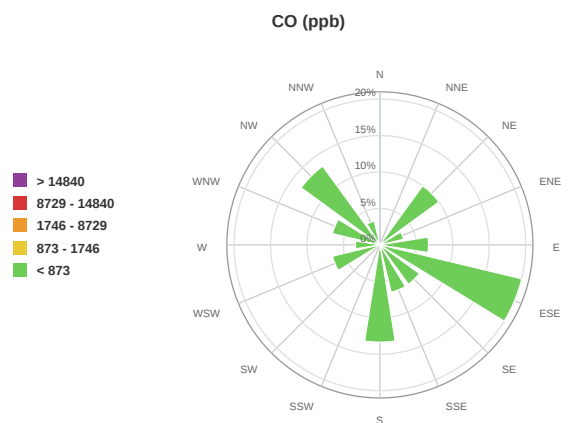
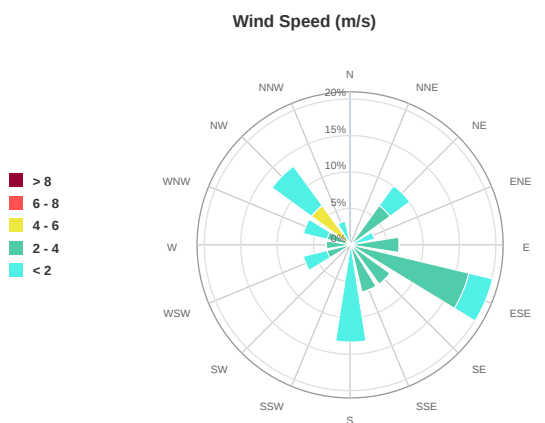
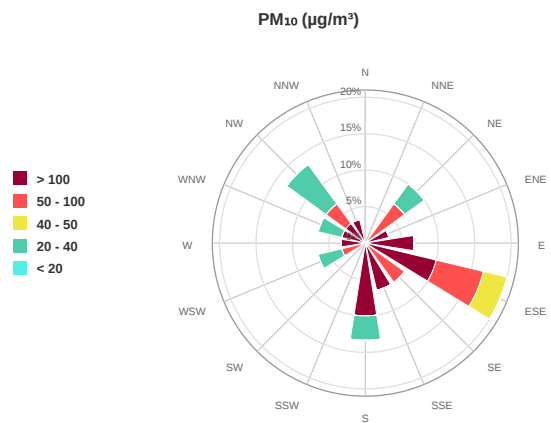
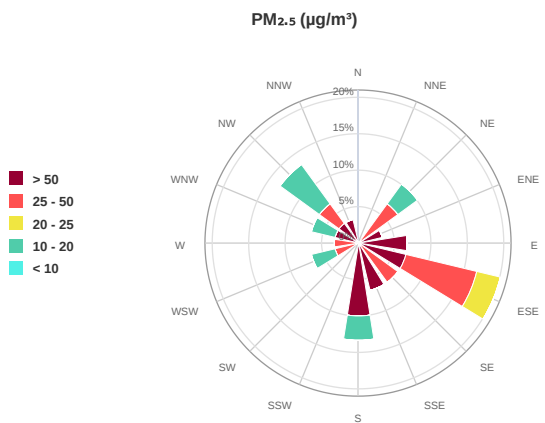
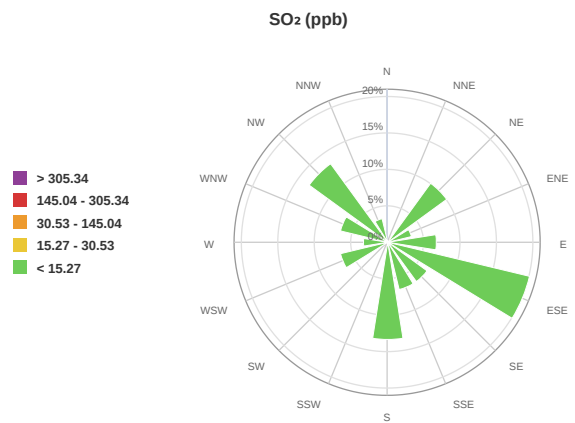
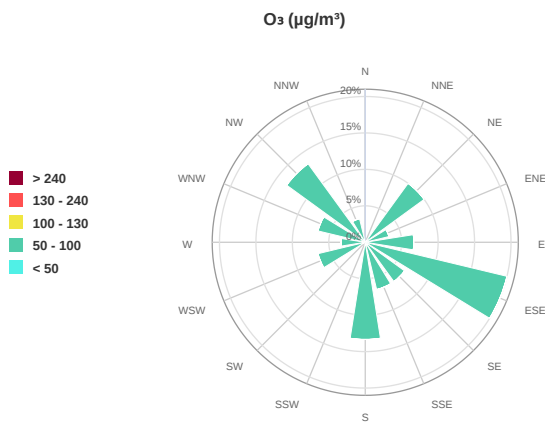
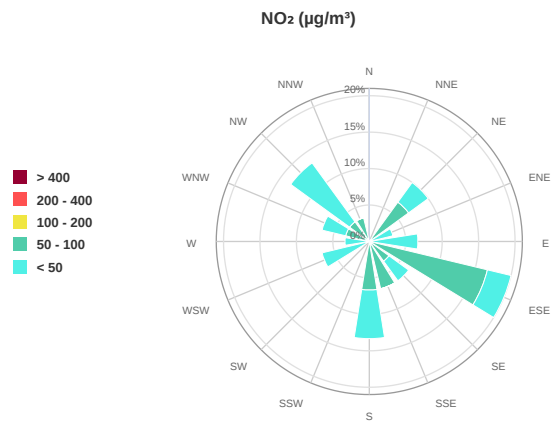
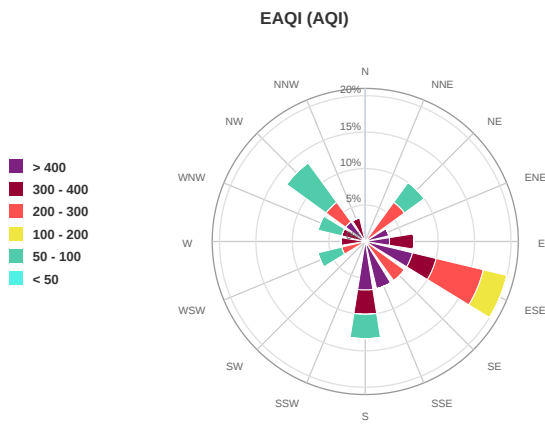
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
Average	0.38	104.84	100	388.72	85.67	38.18	236	1014.51	5.26
Maximum	5.4	308.37	100	669.05	92.28	74.3	962.67	1022.27	10.42
Date	28/12/2025	28/12/2025	01/12/2025	18/12/2025	09/12/2025	09/12/2025	02/12/2025	14/12/2025	05/12/2025
Minimum	0.51	305.65	99.99	279.45	74.16	9.76	24.82	1002.43	0.02
Date	12/12/2025	12/12/2025	16/12/2025	30/12/2025	30/12/2025	30/12/2025	25/12/2025	05/12/2025	30/12/2025

Weekly Average

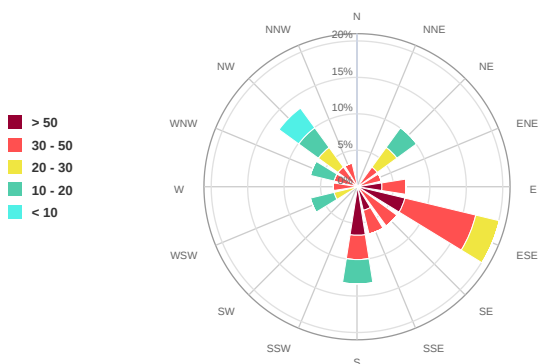




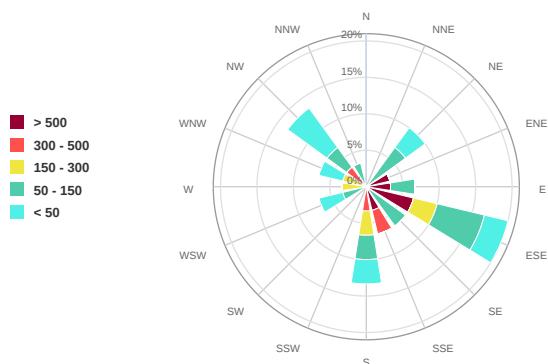
Weekly Average



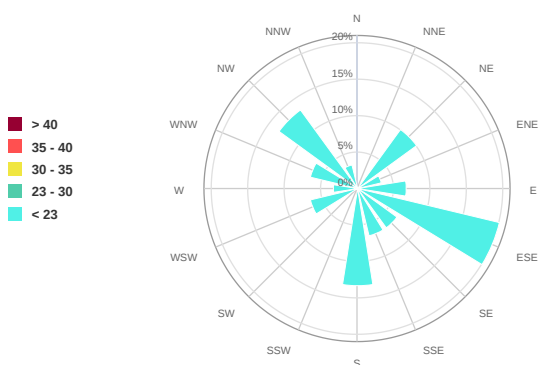
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI consistently high, indicating poor air quality:** EAQI values frequently exceed 300, indicating 'Very Poor' to 'Extremely Poor' air quality. This suggests a persistent pollution problem in the reported period.
- 30/12/2025, 23:59 **High PM_{2.5} levels frequently exceed safety thresholds:** PM_{2.5} levels often fall within 'Poor' to 'Extremely Poor' ranges, potentially causing respiratory issues in the population. The highest recorded value is 223.06 µg/m³.
- 30/12/2025, 23:59 **PM₁₀ levels show extreme pollution:** PM₁₀ values frequently reside in the 'Extremely Poor' range, with peak levels reaching 962.67 µg/m³. This suggests significant dust and particulate matter.
- 30/12/2025, 23:59 **NO₂ Levels are consistently in 'Poor' or lower categories:** NO₂ levels remain consistently below the 'Very Poor' threshold, peaking at 106.79 µg/m³, suggesting traffic or industrial emissions are contributing.
- 30/12/2025, 23:59 **O₃ levels consistently below 'Very Poor' range:** O₃ levels stay below the 'Very Poor' range, with the highest value observed at 149.65 µg/m³. This is influenced by other pollutants reacting with sunlight.
- 30/12/2025, 23:59 **SO₂ levels consistently at 'Good' levels:** SO₂ levels are consistently recorded at 0 ppb, indicating insignificant levels of sulfur dioxide pollution in the area.
- 30/12/2025, 23:59 **Wind direction variations may influence pollution dispersion:** Wind direction varies considerably, ranging from 37.26 to 348.57 degrees. This shift likely plays a significant role in pollutant dispersion patterns.
- 30/12/2025, 23:59 **Temperature fluctuates within a narrow range:** Temperature fluctuates between 0.02 and 10.42°C. This range suggests a stable, cold climate during the recorded period.
- 30/12/2025, 23:59 **High relative humidity may exacerbate air quality issues:** Relative humidity remains high, ranging from 74.16% to 92.28%. This could worsen the impact of particulate matter on respiratory health.
- 30/12/2025, 23:59 **CO levels consistently elevated, warrants further investigation:** Carbon monoxide levels consistently above 250 ppb, reaching as high as 669.05 ppb, indicates potential incomplete combustion sources nearby.
- 02/12/2025, 23:59 **December 2nd: The worst air quality day recorded:** December 2nd registered the highest PM₁₀ (661.81 µg/m³) resulting in the second highest EAQI (449) during the period, signifying extremely poor conditions.
- 30/12/2025, 23:59 **Pressure variations indicate possible weather changes:** Pressure fluctuates between 1002.43 and 1022.27 HPa. This variation may influence pollutant concentration and dispersion.
- 30/12/2025, 23:59 **Wind speed is generally low during the period:** Wind speeds generally range from 0.51 m/s to 5.4 m/s. Lower wind speed values may contribute to pollutant build-up.
- 30/12/2025, 23:59 **EAQI correlates strongly with PM_{2.5} and PM₁₀ levels:** High EAQI values coincide with elevated PM_{2.5} and PM₁₀ concentrations, suggesting particulate matter is a primary driver of poor air quality.
- 25/12/2025, 23:59 **December 25th shows best air quality in the period:** The lowest PM_{2.5} value was recorded on December 25th (12.16 µg/m³), leading to a relatively lower EAQI of 197, the best in the observed period.
- 30/12/2025, 23:59 **PM₁ levels also show worrying concentrations:** PM₁ values reach as high as 74.3 µg/m³, indicating the presence of ultrafine particles which can penetrate deeply into the respiratory system.
- 30/12/2025, 23:59 **PM₁₀₀ High levels suggests coarse particle presence:** PM₁₀₀ values can reach as high as 962.67 µg/m³, indicative of significant coarse particle pollution possibly from construction or road dust.
- 30/12/2025, 23:59 **Battery levels remain consistently at 100%:** Battery levels for the monitoring equipment are constantly at 100%, indicating consistent power supply and no interruption in data collection.
- 28/12/2025, 23:59 **Moderate wind speed does not guarantee improvement:** Even with a wind speed of 5.4 m/s on December 28th, EAQI was at 212 (Poor), indicating that wind speed alone cannot overcome the level of pollution.
- 30/12/2025, 23:59 **EAQI values above 400 during multiple days:** EAQI has exceeded 400 on seven separate days during the reported period, highlighting severely hazardous air quality levels.
- 30/12/2025, 23:59 **Consistent source of CO suggests localized pollution:** The relatively consistent levels of CO over the period, indicates that there is a localized or consistent source contributing to the pollution.
- 30/12/2025, 23:59 **Night time data suggests pollution doesn't improve overnight:** All readings are at 21:59:59 UTC, suggesting pollutants do not dissipate significantly overnight.
- 30/12/2025, 23:59 **Correlation between Pressure and PM10:** There could be a slight negative correlation between pressure and PM10 levels (lower pressure, higher PM10). Further investigation needed
- 30/12/2025, 23:59 **Potential Health Risks High:** Given consistently high levels of PM_{2.5}, PM10, and overall EAQI, there is a significant risk of respiratory and cardiovascular health issues for the population.
- 30/12/2025, 23:59 **Source Apportionment Required:** Due to the presence of both high particulate matter and carbon monoxide, further study is recommended to determine the relative contribution of different emission sources
- 30/12/2025, 23:59 **Consistent pollution requires immediate attention:** The ongoing poor and very poor air quality requires intervention, including pollution source control and public health advisories.
- 18/12/2025, 23:59 **CO peak indicates specific pollution events:** The peaks in CO levels, such as the 669.05 ppb reading, may be caused by distinct localized events that require investigation.

- 30/12/2025, 23:59 **EAQI and EAQI(AQI) show equivalence.**: EAQI and EAQI(AQI) values are identical, confirming the consistency in the air quality index calculation and reporting methodology.
- 30/12/2025, 23:59 **Lack of SO₂ suggests non-fossil fuel sources**: The consistent lack of SO₂ suggests that the primary pollution sources are not related to fossil fuel combustion, potentially related to dust or specific industrial processes.
- 30/12/2025, 23:59 **Pollution source could be local industrial activities**: High levels of PM₁₀ may indicate proximity to industries that cause dust, construction, or road works nearby.

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	405	49.46	60.36	0	88.73	201.66
02/12/2025, 23:59	449	50.62	58.8	0	211.46	661.81
03/12/2025, 23:59	283	56.03	54.69	0	45.87	85.51
04/12/2025, 23:59	318	53.67	55.45	0	46.5	109.19
05/12/2025, 23:59	174	52.46	61.05	0	23.72	44.23
06/12/2025, 23:59	279	53.6	53.26	0	44.71	83.33
07/12/2025, 23:59	322	50.89	56.38	0	55.46	102.01
08/12/2025, 23:59	335	50.48	57.89	0	50.46	117.5
09/12/2025, 23:59	446	50.44	60.58	0	223.06	634.65
10/12/2025, 23:59	415	51.07	56.63	0	107.48	304.84
11/12/2025, 23:59	408	50.25	59.36	0	79.95	233.36
12/12/2025, 23:59	213	49.43	60.67	0	28.21	53.22
13/12/2025, 23:59	92	49.34	65.45	0	18.38	35.08
14/12/2025, 23:59	247	46.96	68.47	0	36.86	73.24
15/12/2025, 23:59	255	48.37	67.95	0	38.72	74.86
16/12/2025, 23:59	422	49.99	60.96	0	142.18	386.21
17/12/2025, 23:59	406	56.74	55.9	0	78.07	210.9
18/12/2025, 23:59	396	56.75	52.01	0	74.1	137.56
19/12/2025, 23:59	264	55.35	52.73	0	40.94	77.84
20/12/2025, 23:59	425	53.32	52.76	0	125.06	408
21/12/2025, 23:59	430	48.46	64.67	0	141.75	467.84
22/12/2025, 23:59	242	48.7	65.9	0	35.42	66.93
23/12/2025, 23:59	323	49.43	61.53	0	54.24	111.74
24/12/2025, 23:59	224	50.96	59.69	0	30.93	56.15
25/12/2025, 23:59	66	46.77	65.72	0	12.16	22.72
26/12/2025, 23:59	80	46.44	68.99	0	15.99	29.78
27/12/2025, 23:59	340	47.46	65.37	0	49.86	119.84
28/12/2025, 23:59	73	45.86	73	0	13.53	26.3
29/12/2025, 23:59	81	47.63	72.04	0	16.26	31.94
30/12/2025, 23:59	76	46.12	76.23	0	11.06	22.24

Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m³	PM ₁₀₀ µg/m³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.39	173.75	100	409.47	86.54	61.69	279.03	1012.4	6.03
02/12/2025, 23:59	2.28	111.47	100	385.24	89.55	69.3	962.67	1013.51	5.74
03/12/2025, 23:59	3.18	122.33	100	466.3	89.73	40.88	93.71	1010.67	5.61
04/12/2025, 23:59	2.71	110.12	100	374.99	85.77	31.79	152.5	1006.4	7.82
05/12/2025, 23:59	3.56	119.98	100	316.34	82.88	21.92	48.92	1002.43	10.42
06/12/2025, 23:59	3.12	37.26	100	477.54	86.87	41.37	91.88	1007.24	8.16
07/12/2025, 23:59	1.5	348.57	100	376.88	89.69	49.35	109.68	1009.64	8.25
08/12/2025, 23:59	1.03	290.12	100	444.52	84.12	39.22	171.13	1015.07	8.2
09/12/2025, 23:59	2.82	163.43	100	371.46	92.28	74.3	941.08	1016.79	4.87
10/12/2025, 23:59	1.06	178.05	100	449.62	85.83	47.76	451.62	1014.28	6.48
11/12/2025, 23:59	1.52	308.76	100	358.9	91.09	36.2	364.7	1016.81	4.87
12/12/2025, 23:59	0.51	305.65	100	347.68	89.06	25.16	58.21	1018.47	4.99
13/12/2025, 23:59	0.62	189.68	100	342.74	85.81	16.64	39.05	1021.99	4.4
14/12/2025, 23:59	0.74	246.78	100	318.09	88.15	29.23	82.05	1022.27	3.73
15/12/2025, 23:59	2.15	127.74	100	330.24	87.97	33.37	82.9	1021.15	3.4
16/12/2025, 23:59	2.41	83.7	99.99	445.61	88.97	69.02	660.19	1017.9	0.88
17/12/2025, 23:59	2.72	148.34	100	561.77	84.95	48.59	367.5	1017.25	3.25
18/12/2025, 23:59	1.54	181.69	100	669.05	81.94	65.62	148.13	1021.11	7.61
19/12/2025, 23:59	2.35	140.1	100	496.66	79.62	38.15	86.56	1018.89	9.59
20/12/2025, 23:59	1.06	110.13	100	457.28	83.13	55.11	611.52	1013.68	8.56
21/12/2025, 23:59	1.9	60.75	100	315.55	87.47	47.25	665.41	1012.66	7.16
22/12/2025, 23:59	2.22	104.34	100	337.41	87.02	31.82	72.25	1012.83	5.6
23/12/2025, 23:59	2.61	95.39	100	357.96	87.43	39.59	137.04	1010.61	4.83
24/12/2025, 23:59	3.08	48.1	100	390.15	86.64	28.69	59.89	1011.24	4.8
25/12/2025, 23:59	1.82	51.73	100	294.81	84.98	11.28	24.82	1020.72	5.3
26/12/2025, 23:59	2.82	299.32	100	297.21	82.48	14.85	32.62	1021.89	3.35
27/12/2025, 23:59	2.16	261.59	100	364.03	89.72	40.78	192.94	1018.56	0.52
28/12/2025, 23:59	5.4	308.37	100	280.86	78.56	12.1	29.58	1011.89	2.23
29/12/2025, 23:59	3.89	258.05	100	343.77	77.8	14.65	36.37	1010.12	1.28
30/12/2025, 23:59	5.05	306.07	100	279.45	74.16	9.76	26.03	1006.72	0.02

Oizom will not be responsible for Environmental Data accuracy once Validated