

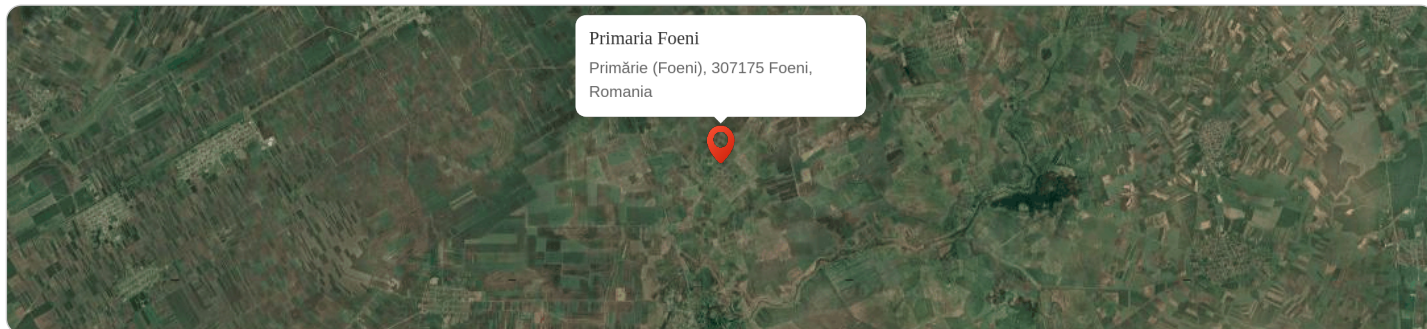
# Primaria Foeni

## MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Foeni**  
Locația dispozitivului: **Primărie (Foeni), 307175 Foeni, Romania**

Parametrii: **EAQI , NO<sub>2</sub> , O<sub>3</sub> , SO<sub>2</sub> , PM<sub>2.5</sub> , PM<sub>10</sub> , Wind Speed , Wind Direction , CO , R. Humidity , PM<sub>1</sub> , PM<sub>100</sub> , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **398**

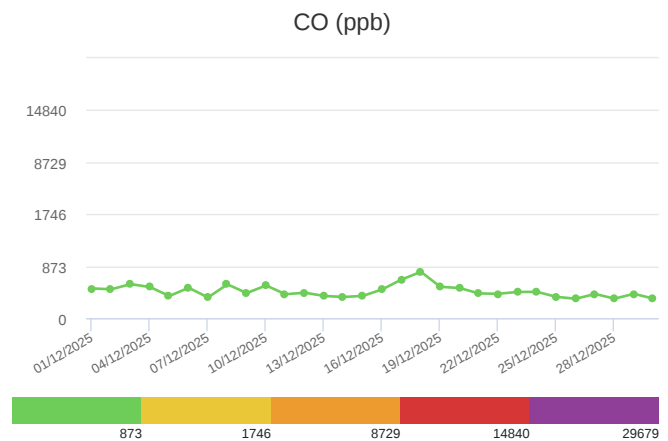
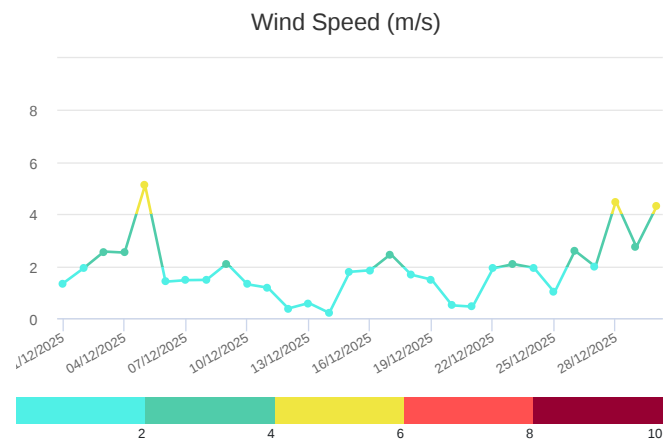
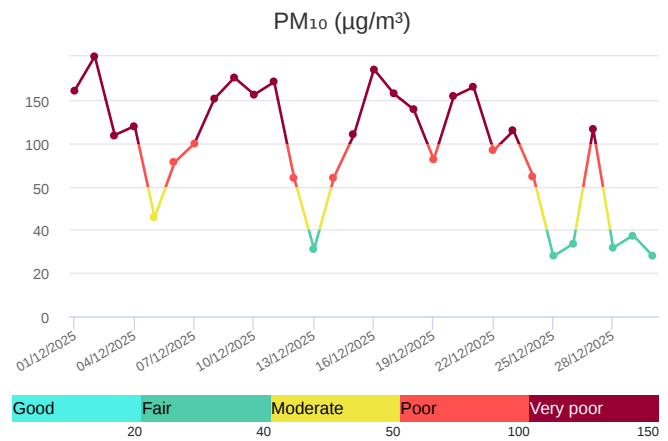
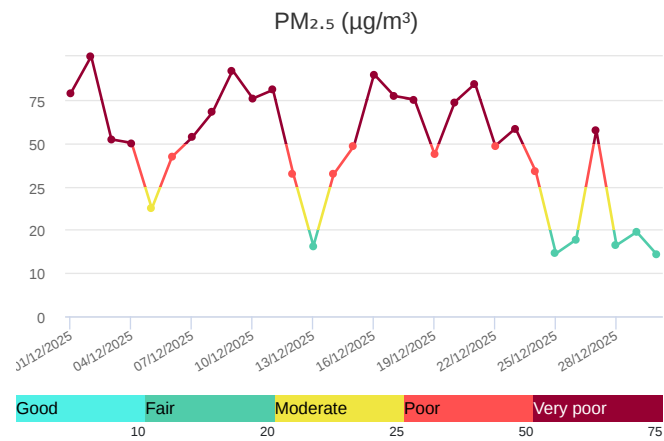
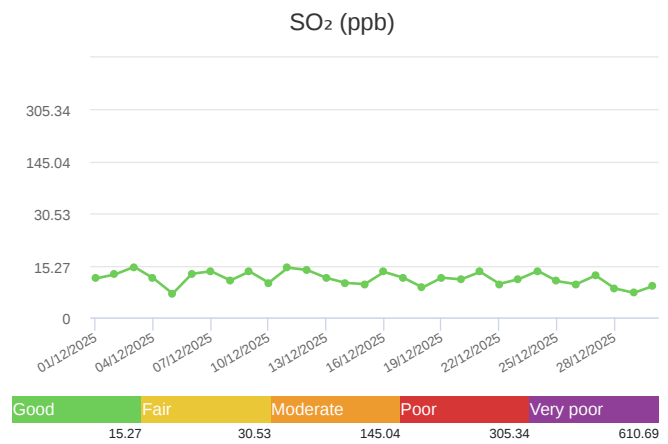
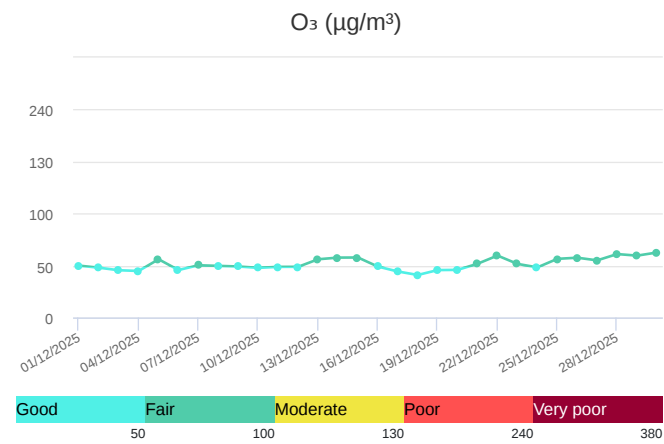
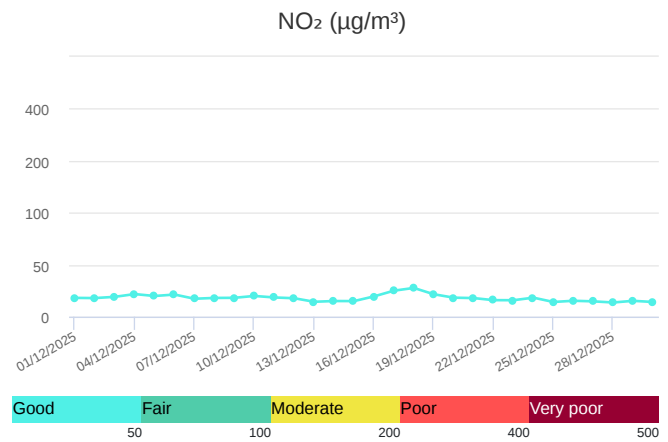
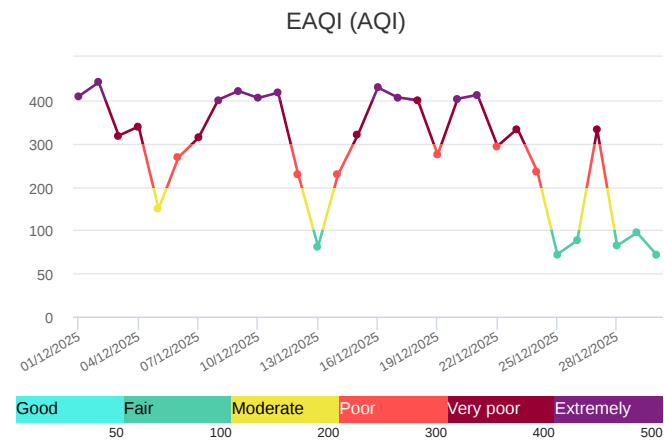
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

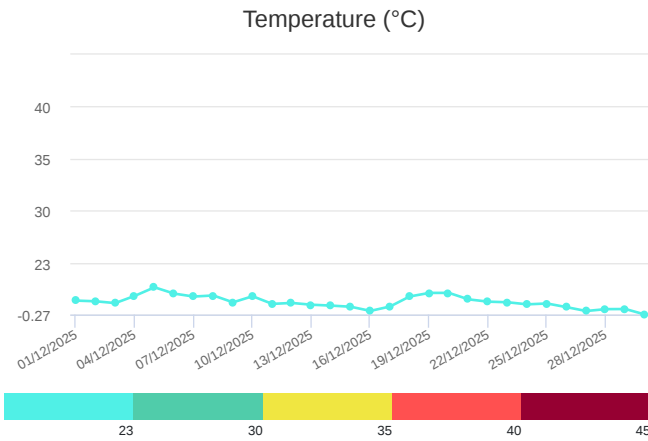
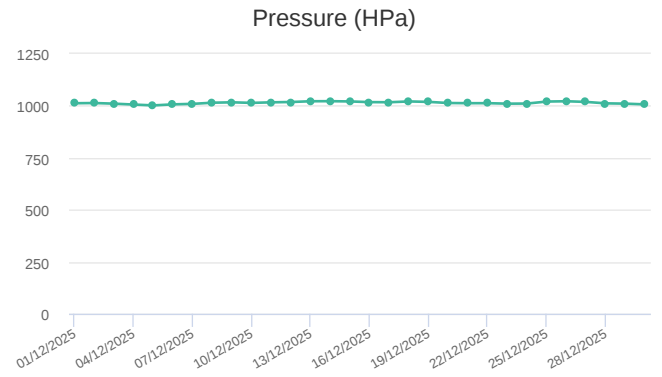
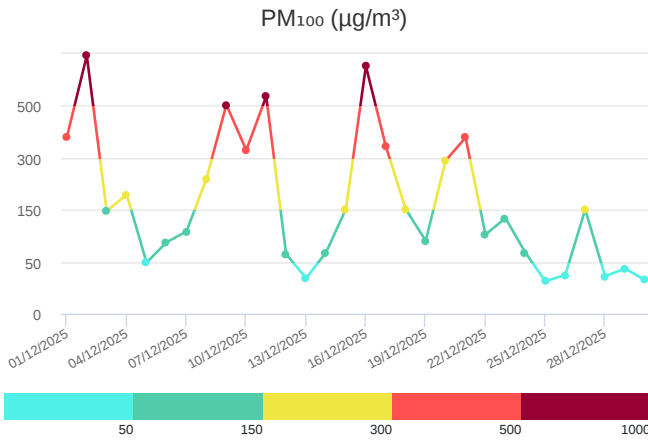
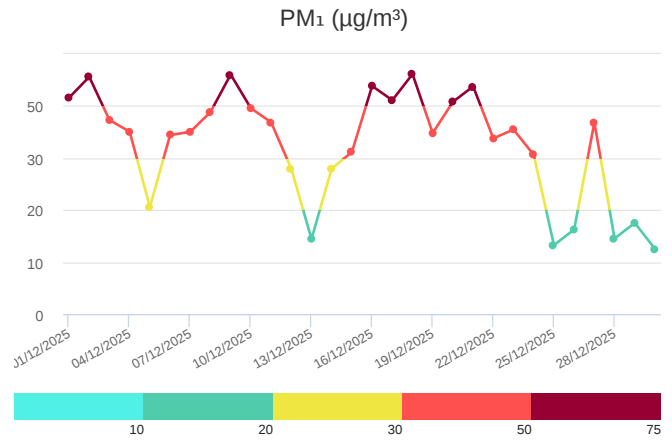
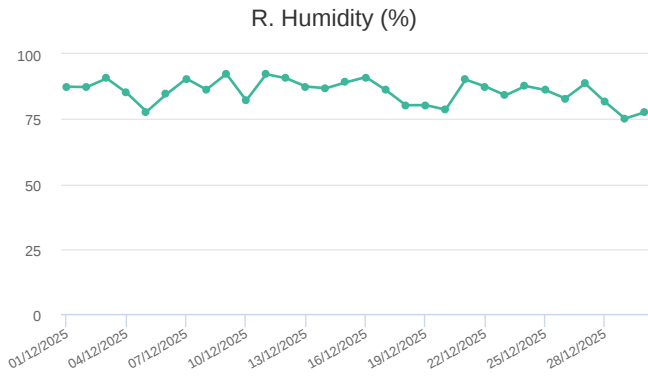
	EAQI AQI	NO <sub>2</sub> µg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	SO <sub>2</sub> ppb	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>
Average	398	17.98	51.45	11.39	60.42	149.15
Maximum	441	27.66	62.51	14.87	178.38	581.04
Date	02/12/2025	18/12/2025	30/12/2025	03/12/2025	02/12/2025	02/12/2025
Minimum	71	13.66	40.89	7.01	14.24	27.72
Date	30/12/2025	28/12/2025	18/12/2025	05/12/2025	30/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

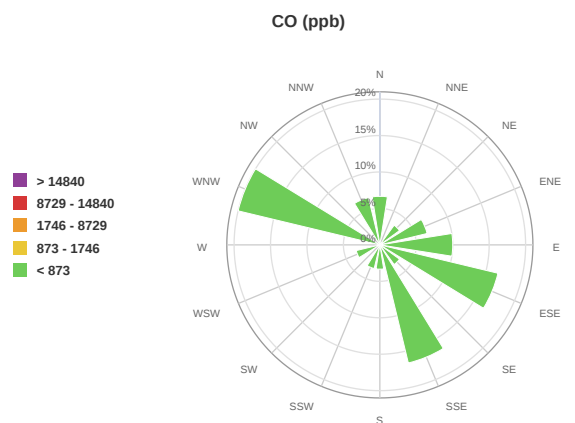
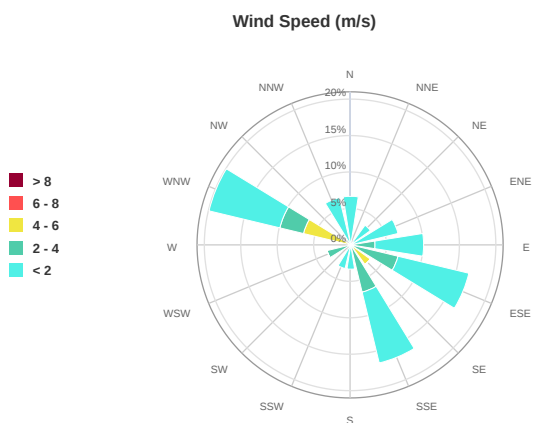
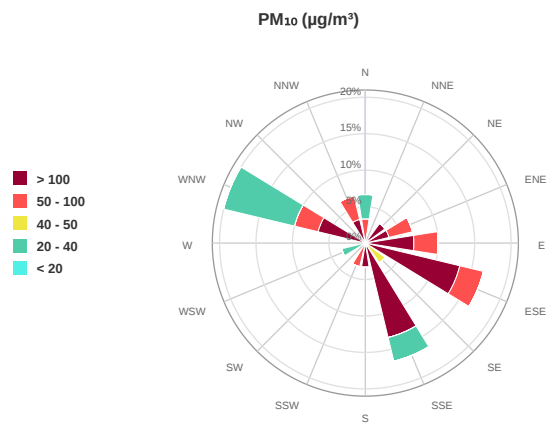
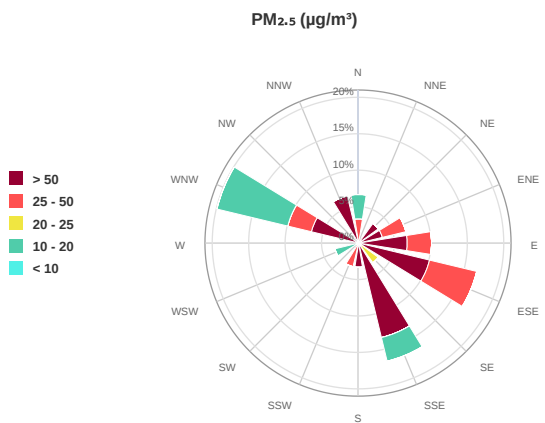
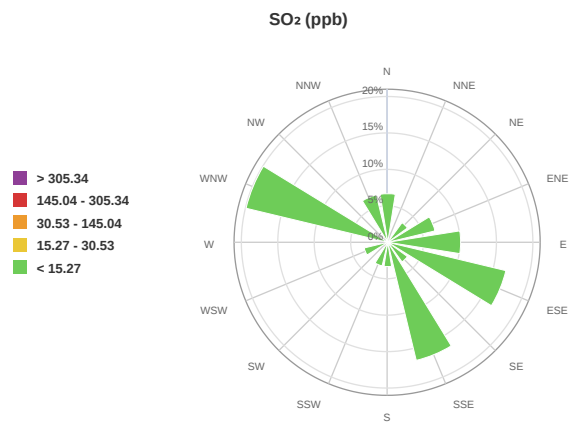
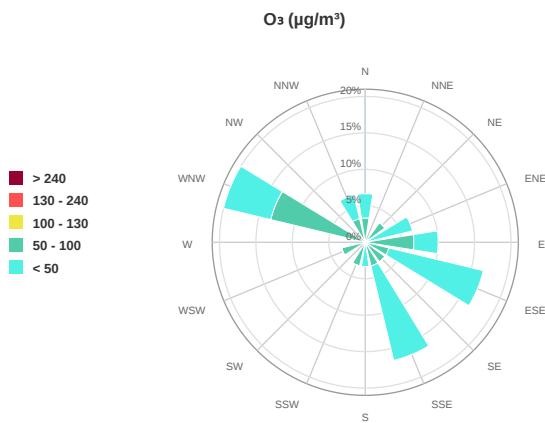
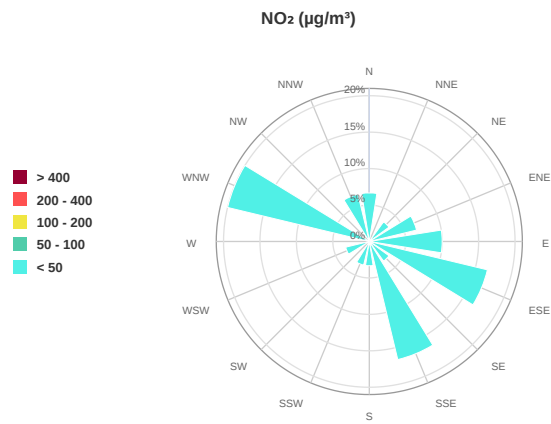
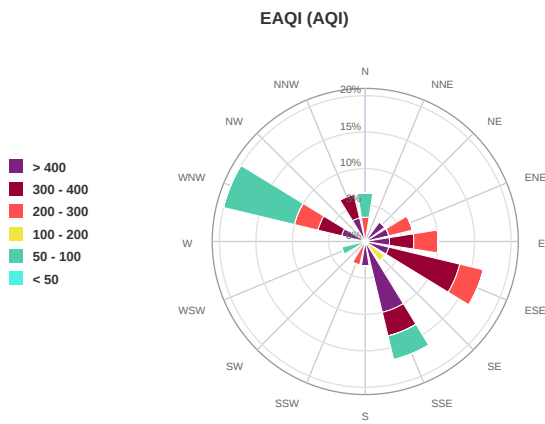
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM <sub>1</sub> µg/m <sup>3</sup>	PM <sub>100</sub> µg/m <sup>3</sup>	Pressure hPa	Temperature °C
Average	0.32	115.76	100	451.73	85.62	38.89	223.62	1014.31	5.38
Maximum	5.11	126.72	100	776.82	92.34	65.35	982.4	1022.18	11.92
Date	05/12/2025	05/12/2025	01/12/2025	18/12/2025	09/12/2025	18/12/2025	02/12/2025	14/12/2025	05/12/2025
Minimum	0.2	193.03	99.99	325.09	75.17	12.53	31.28	1001.89	-0.27
Date	14/12/2025	14/12/2025	05/12/2025	26/12/2025	29/12/2025	30/12/2025	25/12/2025	05/12/2025	30/12/2025

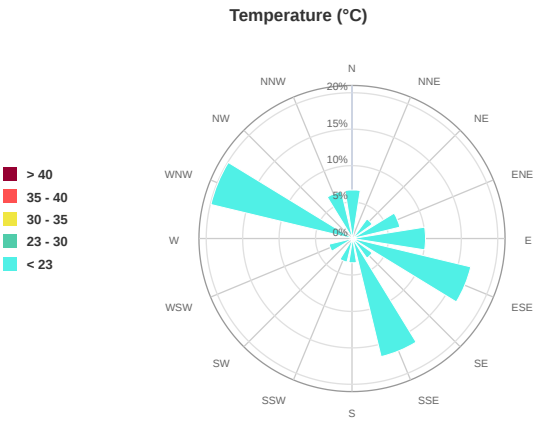
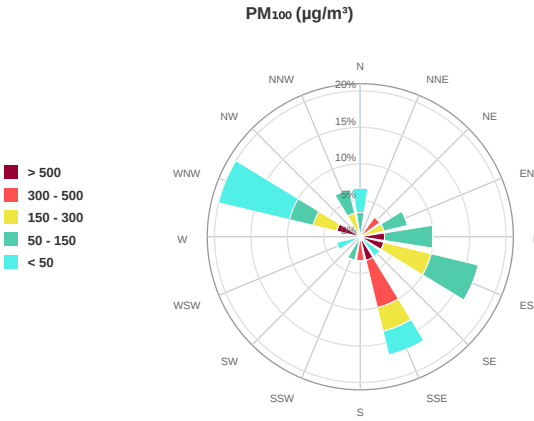
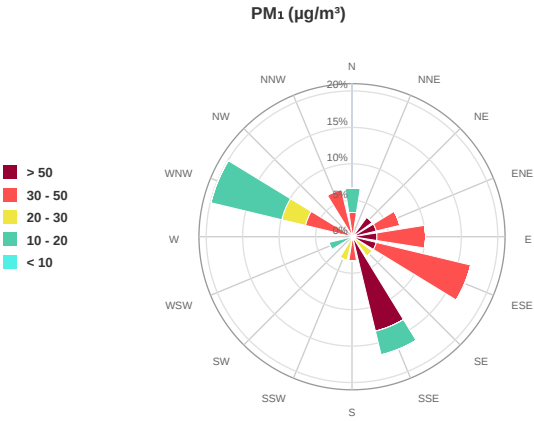
## Weekly Average





## Weekly Average





## Alerte

No alerts for the selected date and time range

## Insights

- 30/12/2025, 23:59 **EAQI consistently reached 'Extremely Poor' levels in December:** The EAQI reached 'Extremely Poor' levels on 10 days out of 30, indicating severely degraded air quality. This suggests a persistent pollution issue.
- 30/12/2025, 23:59 **PM<sub>2.5</sub> concentrations exceeded safe limits, posing health risks:** PM<sub>2.5</sub> levels were frequently in the 'Poor' to 'Extremely Poor' range, with a peak of 178.38 µg/m<sup>3</sup>, significantly above the 'Good' threshold of 10 µg/m<sup>3</sup>.
- 30/12/2025, 23:59 **PM<sub>10</sub> levels showed extreme pollution, surpassing limits:** PM<sub>10</sub> values often exceeded the 'Poor' range, reaching a maximum of 581.04 µg/m<sup>3</sup>. This highlights severe particulate matter pollution. Good range: 0-20 µg/m<sup>3</sup>.
- 30/12/2025, 23:59 **O<sub>3</sub> levels mostly within acceptable ranges despite EAQI issues:** O<sub>3</sub> concentrations were generally within the 'Fair' to 'Moderate' zones, even on days with 'Extremely Poor' EAQI, suggesting other pollutants drive the overall AQI.
- 30/12/2025, 23:59 **NO<sub>2</sub> levels consistently remained within 'Fair' range:** NO<sub>2</sub> levels were consistently within the 'Fair' range, even on days with high EAQI, indicating it's not a primary driver of poor air quality.
- 30/12/2025, 23:59 **SO<sub>2</sub> concentrations mostly in 'Good' zone, low contributor:** SO<sub>2</sub> levels were primarily in the 'Good' zone throughout the period, suggesting it contributed the least to overall air quality degradation.
- 30/12/2025, 23:59 **Temperature fluctuations exhibit inverse correlation with EAQI:** Slight inverse correlation might exist between temperature and EAQI levels, requiring further investigation to establish causality, with lower temps during Extremely Poor air quality.
- 30/12/2025, 23:59 **High Humidity levels do not clearly correlate to EAQI:** High relative humidity (R. Humidity) does not appear to have a direct correlation to EAQI levels in a consistent manner across the recorded timeframe.
- 30/12/2025, 23:59 **Wind Speed Variation and Impact on Air Quality Levels:** Variable wind speeds recorded, from 0.2 to 5.11 m/s, may be affecting pollutant dispersal impacting localized air quality conditions with no clear pattern.
- 30/12/2025, 23:59 **Pressure (hPa) stability during period of high pollution.:** Pressure (hPa) exhibited relatively stable conditions throughout December, around 1010-1020, that don't strongly correlate with varying air quality.
- 16/12/2025, 23:59 **Highest EAQI recorded on December 16th:** The highest EAQI value of 429, categorized as 'Extremely Poor', was recorded on December 16th, coinciding with extremely high PM<sub>10</sub> of 453.41 µg/m<sup>3</sup>.
- 13/12/2025, 23:59 **Lowest EAQI of moderate was on December 13:** The lowest EAQI value of 133, categorized as 'Moderate', was recorded on December 13th and it coincided with low particulate matter levels.
- 02/12/2025, 23:59 **December 2nd: Peak PM<sub>10</sub> concentration observed.:** On December 2nd, the highest PM<sub>10</sub> concentration of 581.04 µg/m<sup>3</sup> was recorded, contributing to an 'Extremely Poor' EAQI.
- 16/12/2025, 23:59 **December 17: Peak PM<sub>2.5</sub> concentration.:** On December 17th, the highest PM<sub>2.5</sub> concentration of 135.68 µg/m<sup>3</sup> was recorded, contributing to an 'Extremely Poor' EAQI.
- 30/12/2025, 23:59 **PM<sub>1</sub> correlates with PM<sub>2.5</sub> and PM<sub>10</sub> but lower:** PM<sub>1</sub> follows similar trends to PM<sub>2.5</sub> and PM<sub>10</sub>, but its concentration is consistently lower, indicating that a portion of PM<sub>2.5</sub> and PM<sub>10</sub> consists of larger particles.
- 30/12/2025, 23:59 **Moderate Wind Speeds Correlate With Better Air Quality:** Moderate wind speeds, between 2.0 m/s and 3.0 m/s, seem to coincide with some of the 'Moderate' air quality days, indicating potential pollutant dispersal.
- 30/12/2025, 23:59 **Wind Direction shifts impact pollutant concentration:** Variable wind direction suggests that the source of pollutants may be shifting, influencing the concentration of PM<sub>2.5</sub> and PM<sub>10</sub> at the monitoring location.
- 30/12/2025, 23:59 **Lower temperatures may trap pollutants:** Lower temperatures, often below 5°C, appear to correlate with periods of 'Extremely Poor' air quality, possibly due to reduced atmospheric mixing.
- 30/12/2025, 23:59 **PM<sub>100</sub> concentrations generally higher than other PMs:** PM<sub>100</sub> consistently exhibits the highest concentration compared to PM<sub>2.5</sub>, PM<sub>10</sub>, and PM<sub>1</sub>, suggesting a prevalence of very large particulate matter.
- 30/12/2025, 23:59 **Battery levels consistent, not impacting data reliability:** Battery percentage consistently at 100% ensures reliability and accuracy of the collected air quality data during the whole month.
- 26/12/2025, 23:59 **Air quality improvements during Christmas period:** Around Christmas Day (December 25th), the EAQI improved to 'Moderate', suggesting a potential reduction in pollution sources during the holiday.
- 09/12/2025, 23:59 **December 9th exhibits extreme PM<sub>10</sub> peak.:** December 9th shows a steep increase of PM<sub>10</sub> to 369.70 µg/m<sup>3</sup> and PM<sub>100</sub> hitting 510.41 µg/m<sup>3</sup>, greatly increasing EAQI to 'Extremely Poor'.
- 10/12/2025, 23:59 **December 10: High PM<sub>2.5</sub> peak.:** December 10th exhibited another peak of PM<sub>2.5</sub>, hitting a concerning value of 77.82 µg/m<sup>3</sup>, categorizing the air quality under 'Extremely Poor'.
- 22/12/2025, 23:59 **December 22: PM<sub>10</sub> spike to 91.42 µg/m<sup>3</sup>:** December 22, marked with higher PM<sub>10</sub> at 91.42 µg/m<sup>3</sup>, despite EAQI being 'Poor', demonstrates the influence on categorizing pollution levels.
- 30/12/2025, 23:59 **Consistent O<sub>3</sub> Levels with EAQI Fluctuations:** Throughout the period, O<sub>3</sub> levels remain relatively stable while EAQI fluctuates significantly, suggesting pollutants other than O<sub>3</sub> heavily influence EAQI readings.
- 05/12/2025, 23:59 **December 5th: Best Air Quality Day in the Sample:** December 5th had the best recorded air quality, classified as 'Moderate' with EAQI at 149, showing a marked decrease of pollutants than other days.
- 30/12/2025, 23:59 **PM<sub>2.5</sub> and PM<sub>10</sub> Consistently Elevated Simultaneously:** The similar patterns in PM<sub>2.5</sub> and PM<sub>10</sub> indicate a shared source contributing to both, implying similar polluting events causing these spikes.

- 30/12/2025, 23:59 **CO concentration is High across all samples:** CO levels consistently elevated, often above 400 ppb, suggesting a significant carbon monoxide pollution source is always active in the location monitored
- 30/12/2025, 23:59 **Elevated CO levels indicate combustion sources nearby.:** Consistently high CO concentrations, coupled with PM<sub>2.5</sub> increases, points to combustion processes (e.g., vehicle emissions, industrial activity, or biomass burning) as a source.
- 30/12/2025, 23:59 **Need to analyze CO and PM ratios.:** The consistent reading for both CO and PM across all samples implies that they may be coming from the same sources of pollution. The relationship should be analyzed more.



## Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO <sub>2</sub> µg/m <sup>3</sup>	O <sub>3</sub> µg/m <sup>3</sup>	SO <sub>2</sub> ppb	PM <sub>2.5</sub> µg/m <sup>3</sup>	PM <sub>10</sub> µg/m <sup>3</sup>
01/12/2025, 23:59	409	18.08	49.92	11.45	91.54	245.88
02/12/2025, 23:59	441	17.92	47.9	12.66	178.38	581.04
03/12/2025, 23:59	318	19.12	45.47	14.87	52.07	109.19
04/12/2025, 23:59	339	21.77	44.76	11.5	50.07	119.63
05/12/2025, 23:59	149	19.92	56	7.01	22.44	42.81
06/12/2025, 23:59	268	21.31	45.67	12.84	42.05	77.71
07/12/2025, 23:59	313	17.24	50.23	13.57	53.25	99.62
08/12/2025, 23:59	401	18.07	49.65	10.89	67.64	159.6
09/12/2025, 23:59	421	18.13	49.05	13.52	144.91	369.7
10/12/2025, 23:59	405	19.93	47.76	10.21	77.82	201.07
11/12/2025, 23:59	417	18.52	48.71	14.65	98.35	326.75
12/12/2025, 23:59	229	17.74	48.76	13.94	32.24	59.44
13/12/2025, 23:59	81	14.37	56.02	11.64	16.24	31.02
14/12/2025, 23:59	228	15.03	57.62	10.15	31.95	60.63
15/12/2025, 23:59	320	15.01	57.72	9.82	48.2	109.76
16/12/2025, 23:59	429	19.48	48.95	13.38	135.68	453.41
17/12/2025, 23:59	406	25	44.26	11.68	83.93	209.51
18/12/2025, 23:59	400	27.66	40.89	8.82	75.38	138.67
19/12/2025, 23:59	274	21.6	45.58	11.7	43.42	80.9
20/12/2025, 23:59	403	18.29	45.79	11.19	73.7	181.09
21/12/2025, 23:59	412	17.92	51.7	13.41	113.16	275.94
22/12/2025, 23:59	294	15.91	59.53	9.88	48.4	91.42
23/12/2025, 23:59	334	15.86	51.57	11.26	58.43	114.11
24/12/2025, 23:59	235	18.28	48.2	13.68	33.69	61.3
25/12/2025, 23:59	72	14.17	56.42	10.68	14.48	27.72
26/12/2025, 23:59	88	15.29	57.52	9.79	17.69	33.53
27/12/2025, 23:59	332	14.76	54.93	12.36	57.35	116.21
28/12/2025, 23:59	82	13.66	61.01	8.53	16.41	31.63
29/12/2025, 23:59	97	15.23	59.52	7.25	19.47	37.41
30/12/2025, 23:59	71	14.15	62.51	9.27	14.24	27.76

## Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM <sub>1</sub> µg/m <sup>3</sup>	PM <sub>100</sub> µg/m <sup>3</sup>	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.34	150.21	100	498.55	87.42	53.99	379.24	1012.28	5.97
02/12/2025, 23:59	1.92	102.99	100	483.48	87.29	64.03	982.4	1013.26	5.67
03/12/2025, 23:59	2.56	120.52	100	570.4	90.63	44.61	147.27	1010.32	4.85
04/12/2025, 23:59	2.52	108.99	100	522.3	85.08	40.13	194.25	1006.01	8.11
05/12/2025, 23:59	5.11	126.72	99.99	371.22	77.82	20.58	49.2	1001.89	11.92
06/12/2025, 23:59	1.4	351.94	100	509.35	84.57	38.81	87.53	1006.94	9.1
07/12/2025, 23:59	1.46	340.2	100	346.97	90.52	40.07	108.32	1009.34	7.79
08/12/2025, 23:59	1.47	333.47	100	566.78	86.31	47.68	239.21	1014.84	8.26
09/12/2025, 23:59	2.1	149.11	100	420.88	92.34	65.16	510.41	1016.72	5.19
10/12/2025, 23:59	1.3	177	100	548.61	82.15	49.12	329.57	1014.06	7.93
11/12/2025, 23:59	1.17	287.46	100	400.28	92.23	43.75	590.05	1016.64	4.49
12/12/2025, 23:59	0.37	301.6	100	426.17	90.69	27.92	64.76	1018.27	4.93
13/12/2025, 23:59	0.58	150.63	100	371.85	87.48	14.42	34.26	1021.84	4.13
14/12/2025, 23:59	0.2	193.03	100	354.47	86.83	27.98	67.88	1022.18	3.74
15/12/2025, 23:59	1.78	113.18	100	372.61	89.11	32.27	152.62	1020.93	3.22
16/12/2025, 23:59	1.84	79.34	100	482.14	91.11	59.62	881.5	1017.67	1.35
17/12/2025, 23:59	2.46	148.86	100	648.16	86.15	52.77	344.23	1017.08	3.31
18/12/2025, 23:59	1.67	161.52	100	776.82	80.32	65.35	151.43	1020.96	7.8
19/12/2025, 23:59	1.48	118.25	100	525.49	80.33	39.59	90.39	1018.72	9.41
20/12/2025, 23:59	0.49	67.41	100	504.85	78.62	52.02	291.71	1013.4	9.43
21/12/2025, 23:59	0.44	54.86	100	413.81	90.15	59.4	377.75	1012.46	6.53
22/12/2025, 23:59	1.91	99.23	100	408.38	87.49	37.57	102.26	1012.59	5.5
23/12/2025, 23:59	2.08	91.53	100	439.52	84.1	40.93	133.98	1010.28	5.22
24/12/2025, 23:59	1.93	63.36	100	439.81	87.7	31.17	67.54	1010.78	4.28
25/12/2025, 23:59	0.99	355.32	100	356.75	86.16	13.24	31.28	1020.42	4.69
26/12/2025, 23:59	2.59	297.85	100	325.09	82.92	16.25	37.28	1021.83	3.03
27/12/2025, 23:59	1.98	282.34	100	404.76	88.63	43.66	150.38	1018.67	1.32
28/12/2025, 23:59	4.49	301.27	100	326.92	81.56	14.51	36.09	1011.77	2.16
29/12/2025, 23:59	2.74	238.11	100	407.61	75.17	17.5	43.4	1010.38	2.2
30/12/2025, 23:59	4.31	298.92	100	327.96	77.62	12.53	32.5	1006.82	-0.27

Oizom will not be responsible for Environmental Data accuracy once Validated