

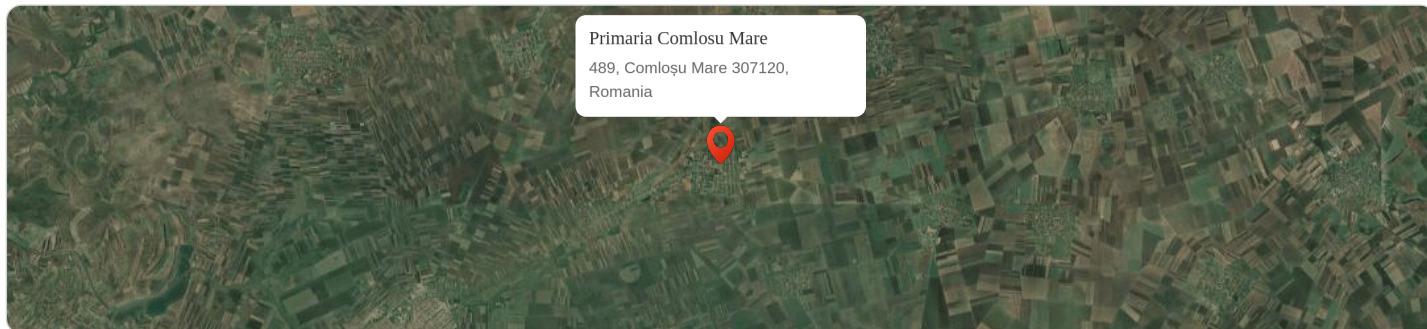
# Primaria Comlosu Mare

## MONTHLY AIR-QUALITY REPORT

Timp de la: **01/11/2025, 00:00**  
Timp până la: **30/11/2025, 23:59**

Numele dispozitivului: **Primaria Comlosu Mare**  
Locația dispozitivului: **489, Comloșu Mare 307120, 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> , Temperature , Pressure**



Media indicelui de calitate al aerului (ICA): **339**

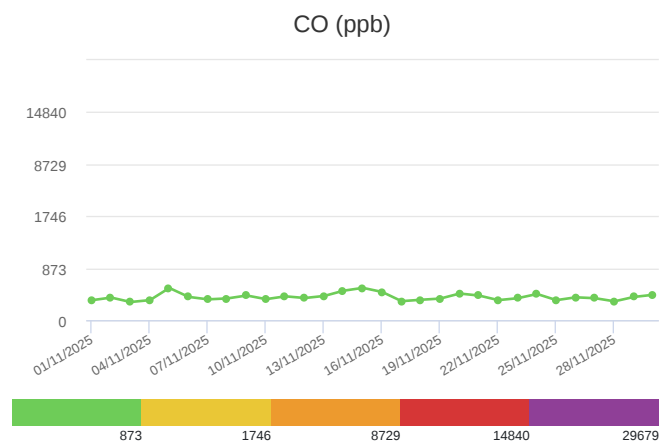
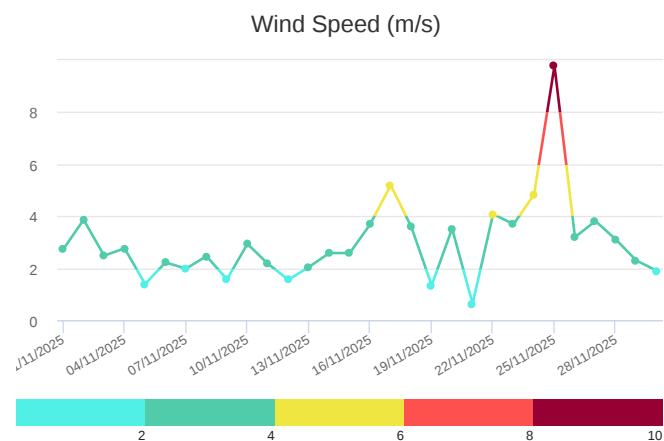
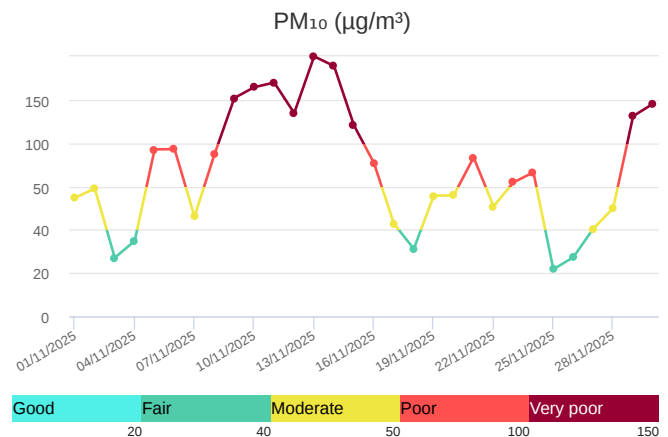
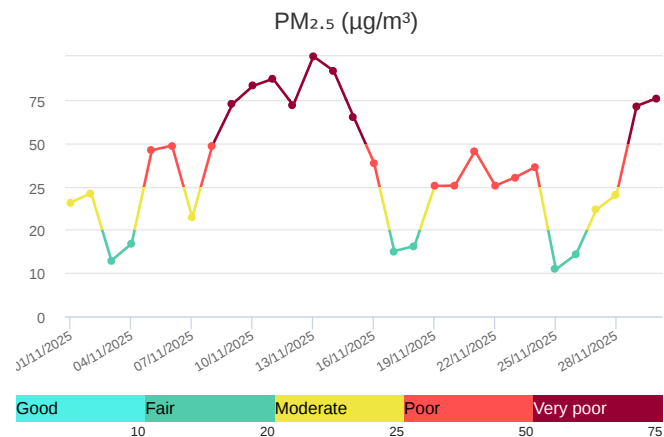
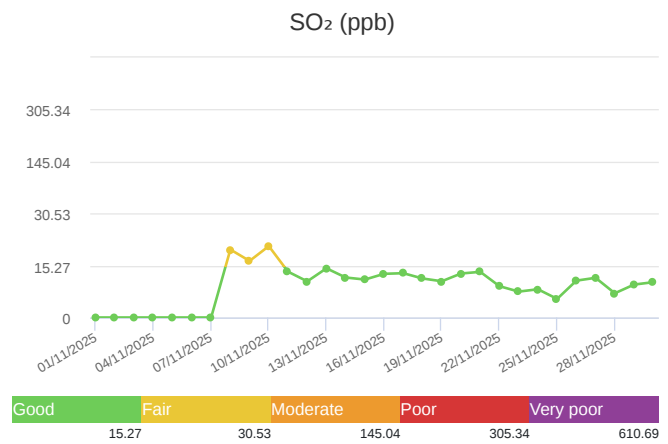
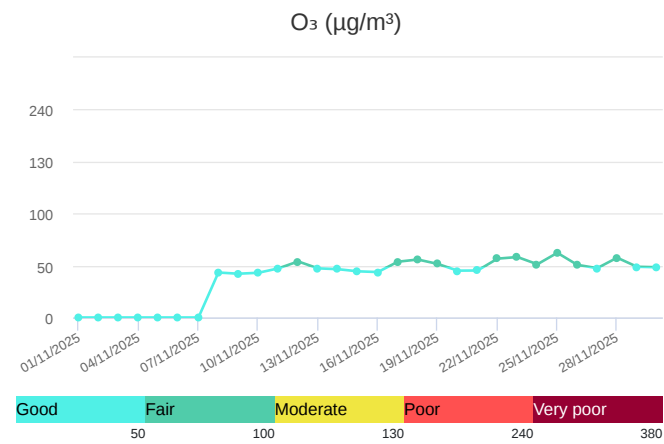
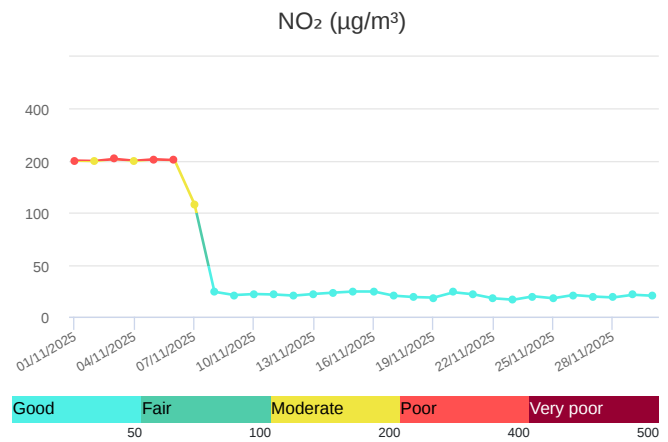
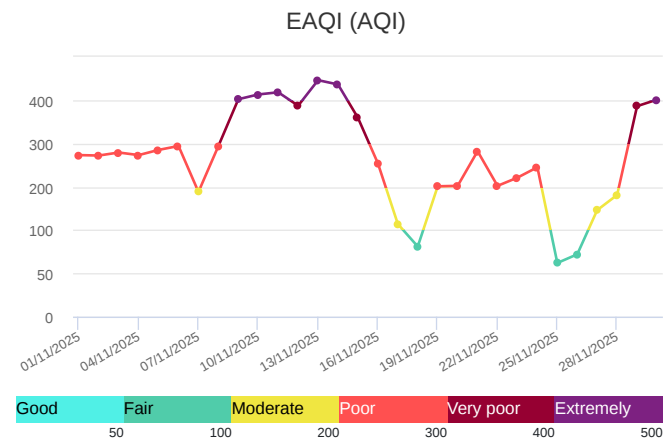
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

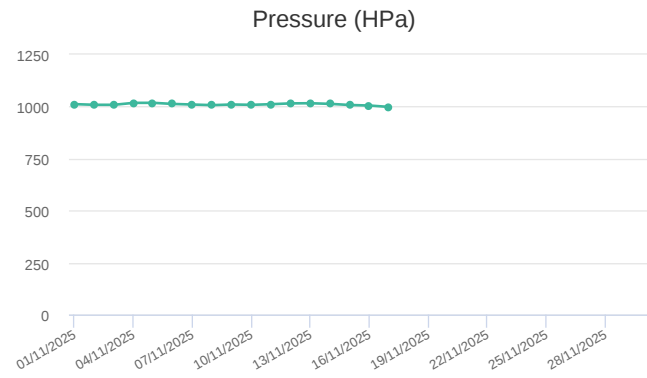
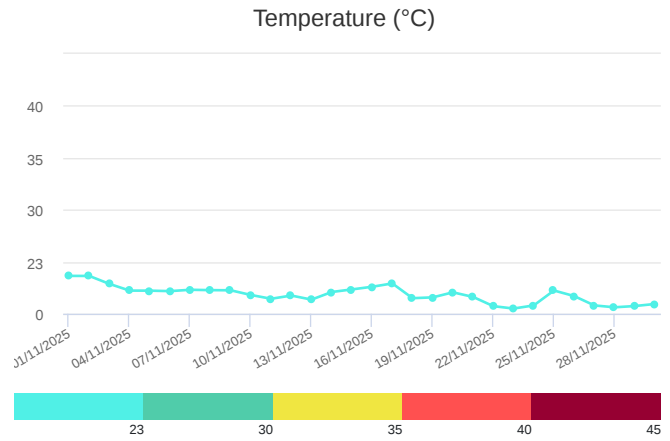
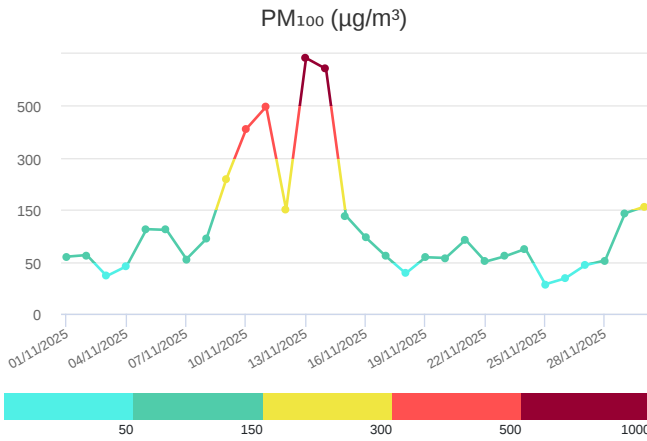
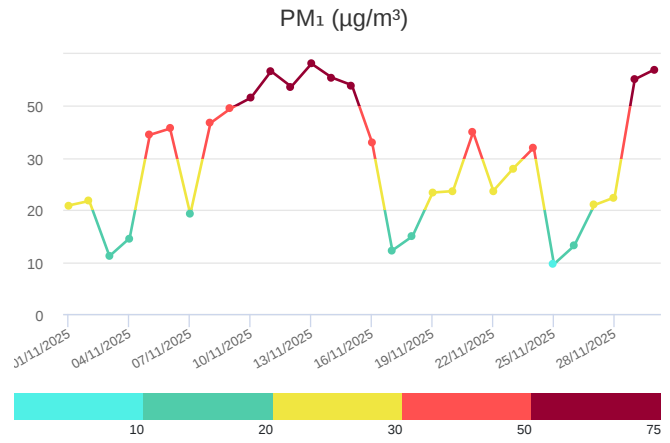
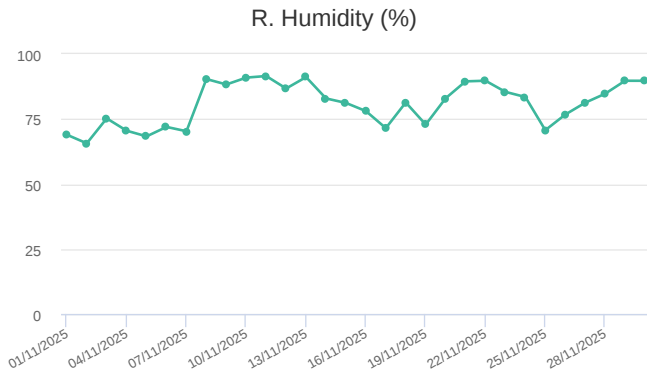
	EAQI AQI	NO <sub>2</sub> μg/m <sup>3</sup>	O <sub>3</sub> μg/m <sup>3</sup>	SO <sub>2</sub> ppb	PM <sub>2.5</sub> μg/m <sup>3</sup>	PM <sub>10</sub> μg/m <sup>3</sup>
Average	339	60.21	0	0	51.38	119.51
Maximum	446	207	62.21	20.96	201.32	630.57
Date	13/11/2025	03/11/2025	25/11/2025	10/11/2025	13/11/2025	13/11/2025
Minimum	62	16.35	0	0	10.82	21.69
Date	25/11/2025	23/11/2025	01/11/2025	01/11/2025	25/11/2025	25/11/2025

Prezentare generală zilnică: Alți parametri

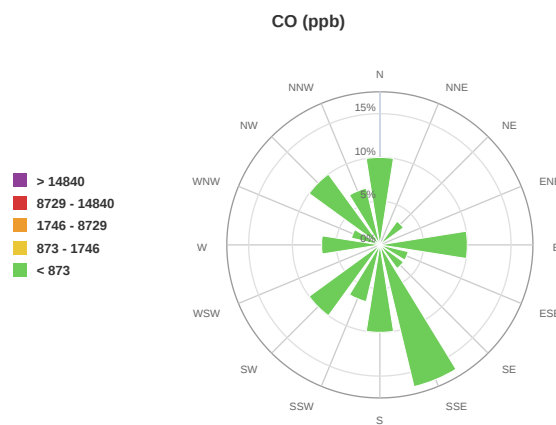
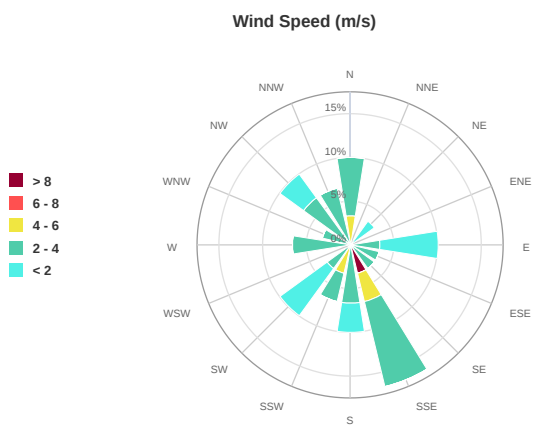
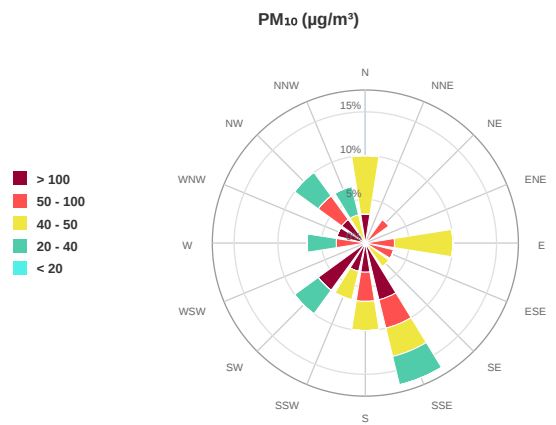
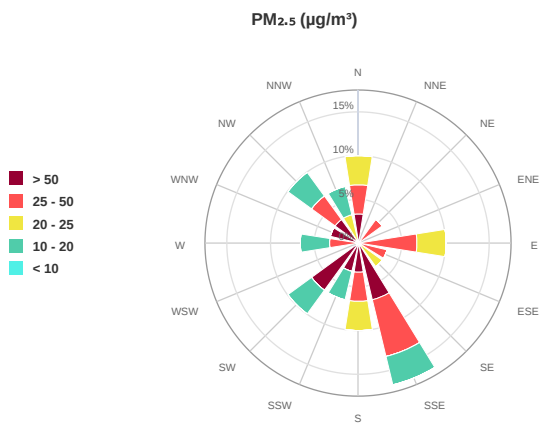
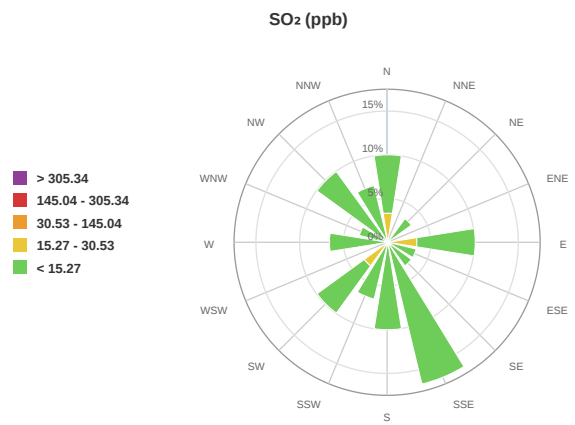
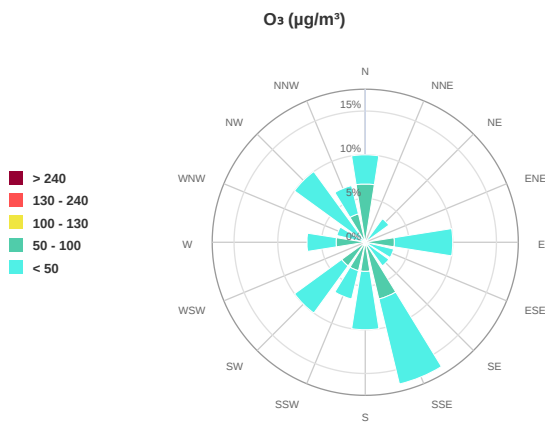
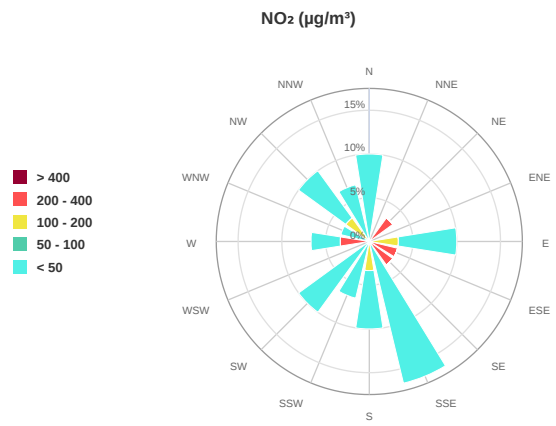
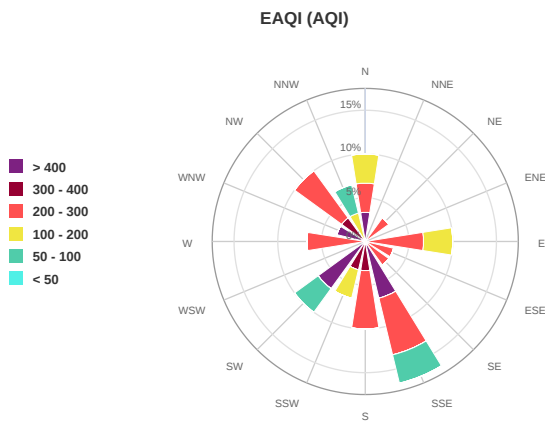
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM <sub>1</sub> μg/m <sup>3</sup>	PM <sub>100</sub> μg/m <sup>3</sup>	Temperature °C	Pressure hPa
Average	0.81	184.1	100	389.16	80.72	35.55	162.72	8.54	1010.66
Maximum	9.78	163.51	100	541.69	91.53	70.34	959.53	16.74	1018.12
Date	25/11/2025	25/11/2025	01/11/2025	15/11/2025	11/11/2025	13/11/2025	13/11/2025	01/11/2025	05/11/2025
Minimum	0.63	317.17	100	303.54	65.64	9.58	28.35	2.29	998.32
Date	21/11/2025	21/11/2025	01/11/2025	03/11/2025	02/11/2025	25/11/2025	25/11/2025	23/11/2025	17/11/2025

## Weekly Average

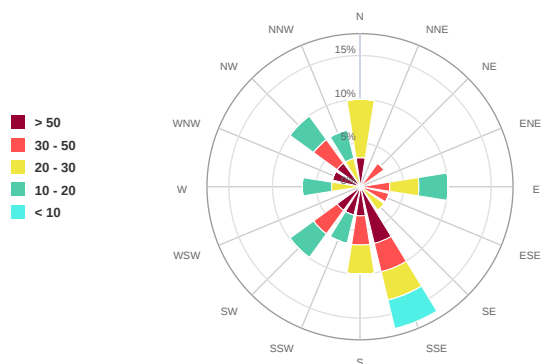




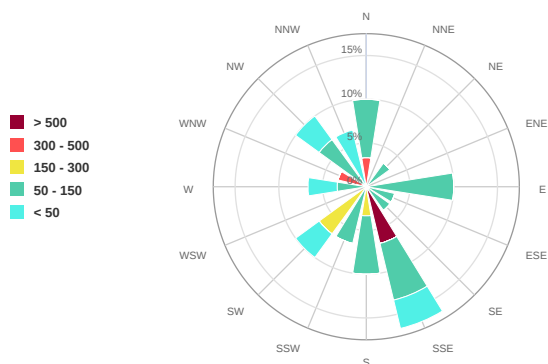
## Weekly Average



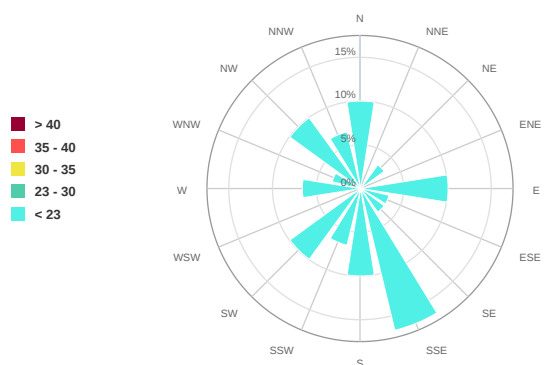
PM<sub>1</sub> (µg/m<sup>3</sup>)



PM<sub>100</sub> (µg/m<sup>3</sup>)



Temperature (°C)



## Alerte

No alerts for the selected date and time range

## Insights

- 16/11/2025, 23:59 **Dominance of Extremely Poor Air Quality Days:** The majority of days exhibited 'Extremely Poor' air quality, with EAQI values frequently exceeding 400, indicating a severe pollution problem. The highest EAQI recorded was 446.
- 30/11/2025, 23:59 **Elevated PM<sub>2.5</sub> Concentrations Driving Poor Air Quality:** High PM<sub>2.5</sub> levels (often above 25 µg/m<sup>3</sup>) contributed significantly to the poor EAQI, exceeding 'Poor' category. The highest PM<sub>2.5</sub> recorded was 201.32 µg/m<sup>3</sup>.
- 15/11/2025, 23:59 **High PM<sub>10</sub> Levels Indicate Significant Particulate Pollution:** PM<sub>10</sub> concentrations frequently reached 'Very Poor' or 'Extremely Poor' levels, with values over 100 µg/m<sup>3</sup>, indicating substantial coarse particulate matter pollution. Max level reached 630.57 µg/m<sup>3</sup>.
- 06/11/2025, 23:59 **NO<sub>2</sub> Levels Consistently in Extremely Poor Range:** NO<sub>2</sub> concentrations were alarmingly high. NO<sub>2</sub> levels often exceeding 180.67 µg/m<sup>3</sup>, contributing to the 'Extremely Poor' air quality classification.
- 25/11/2025, 23:59 **Ozone (O<sub>3</sub>) Levels Fluctuations:** Ozone levels fluctuated, occasionally reaching 'Poor' levels with maximum value of 122.13 µg/m<sup>3</sup>, before dropping back to zero, implying complex atmospheric chemistry.
- 30/11/2025, 23:59 **SO<sub>2</sub> Levels generally within safe limits:** Sulfur Dioxide (SO<sub>2</sub>) levels remained relatively low, suggesting that SO<sub>2</sub> is not a major contributor to the overall air quality index in this period, with values well below the 'Poor' threshold.
- 30/11/2025, 23:59 **Relative Humidity and Air Quality Correlation:** High relative humidity (above 65%) might correlate with higher PM<sub>2.5</sub> and PM<sub>10</sub> concentrations, as moisture can facilitate particle formation and retention.
- 12/11/2025, 23:59 **Impact of Wind Speed on Air Quality:** Lower wind speeds (below 2 m/s) appeared to coincide with higher EAQI values, suggesting that stagnant air conditions exacerbate pollution levels.
- 14/11/2025, 23:59 **Temperature Inversion and Air Pollution:** Lower temperatures (around 6°C to 10°C) were often observed during periods of 'Extremely Poor' air quality, potentially indicating temperature inversions trapping pollutants near the surface.
- 30/11/2025, 23:59 **Pressure Variations and Pollution Levels:** Slight pressure increases could be related to a air pollutants decrease. 1007 HPa to 1018 HPa pressure was observed.
- 30/11/2025, 23:59 **CO (ppb) Levels Indicate Combustion Sources:** Carbon Monoxide (CO) concentrations were consistently high (over 300 ppb), indicating significant combustion sources such as traffic, industrial processes, or residential heating. Max CO concentration was 541.69 ppb.
- 30/11/2025, 23:59 **Directional Analysis of Wind Impact:** Wind direction might play a role in pollution transport. Prevailing wind from 139 to 357 degree may bring in polluted air. Analysis of wind sources is suggested.
- 30/11/2025, 23:59 **Poor Air Quality Correlation with Time:** Consistently reporting the air quality at almost same time everyday gives us similar insights and trend. Reporting from different timeslots can provide varied analysis.
- 30/11/2025, 23:59 **Industrial Impact on Air Quality:** Data shows severe impact of Industrialization. Air pollutants are high and dangerous. Strict environmental policies are needed to control it.
- 30/11/2025, 23:59 **PM<sub>1</sub> closely follows the PM<sub>2.5</sub> trend:** The values of PM<sub>1</sub> are always very close to PM<sub>2.5</sub> values. So, most of the particulate pollution is concentrated in PM<sub>1</sub> size.
- 30/11/2025, 23:59 **Battery is at 100% throughout the timeframe:** Battery health for the analyzer is at 100% throughout the timeframe and data points. This provides reliability of the source of data.
- 26/11/2025, 23:59 **Fair Air Quality Day:** Only on 2025-11-26T21:59:59.000Z, the EAQI reached 'Fair' condition with value 99. It needs to be investigated what helped the levels to drop so low.
- 26/11/2025, 23:59 **Wind speed difference for Fair Day:** On the day when the air quality was Fair, wind speed was recorded at 3.19 m/s. It needs to be further explored if wind speed helped clean up the air.
- 30/11/2025, 23:59 **PM<sub>100</sub> follows PM<sub>10</sub> Trend:** There is a strong trend for PM<sub>100</sub> to follow the levels of PM<sub>10</sub>. Hence, it is likely that PM<sub>100</sub> contains much of PM<sub>10</sub> particulate matter.
- 30/11/2025, 23:59 **EAQI and AQI (AQI) are same:** EAQI and AQI (AQI) reported are same. Hence, there are no discrepancies in reporting the data.
- 28/11/2025, 23:59 **Moderate Air Quality:** There were a few instances of 'Moderate' air quality, indicating a temporary improvement in conditions, but overall pollution remained a concern. 2025-11-17T21:59:59.000Z was best with EAQI 118
- 30/11/2025, 23:59 **Poor Air Quality Days:** There are significant number of days, where Air quality remained 'Poor'. This is the second most frequent category in the observed period.
- 30/11/2025, 23:59 **NO<sub>2</sub> is not the only pollutants:** NO<sub>2</sub> is not the only pollutant that determines the EAQI category. It can be observed that even if NO<sub>2</sub> is in Fair/Moderate, the EAQI is still 'Poor' or 'Extremely Poor'.
- 30/11/2025, 23:59 **Wind Direction Impact:** Wind directions vary significantly. Pollutants from direction 300 degrees has a higher impact. Identify sources from particular directions.
- 30/11/2025, 23:59 **Missing Data Entries:** Pressure is not available for some days. This can hamper detailed investigation. Every datapoint needs to be populated for analysis to be conclusive.
- 30/11/2025, 23:59 **Source Apportionment Needed:** The high values of CO, PM<sub>10</sub>, PM<sub>2.5</sub> suggest a need for further apportionment of pollutants in order to determine dominant source to control.
- 30/11/2025, 23:59 **High Humidity and Air Quality Link:** On some days, higher values of Humidity is observed (around 90%). High humidity contributes to rise in PM and AQI levels.

- 30/11/2025, 23:59 **Peak Pollution:** Peak pollution occurs during nighttime around 9 PM, which is when most of pollutants are recorded.
- 30/11/2025, 23:59 **Need for Further Monitoring:** More frequent monitoring can help analyze day time fluctuations of air quality.
- 30/11/2025, 23:59 **O3 levels and Air Quality:** It appears O3 is not a contributing factor in categorizing the Air Quality. O3 levels are often Zero even when there is High level of pollution.



## 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>
01/11/2025, 23:59	273	200.34	0	0	23.16	47.35
02/11/2025, 23:59	272	199.47	0	0	24.19	49.48
03/11/2025, 23:59	279	207	0	0	12.86	27.02
04/11/2025, 23:59	273	199.86	0	0	16.77	34.82
05/11/2025, 23:59	285	205.68	0	0	45.81	92.62
06/11/2025, 23:59	294	202.28	0	0	48.52	92.97
07/11/2025, 23:59	188	116.36	0	0	21.42	43
08/11/2025, 23:59	294	23.94	43.27	19.96	48.6	86.85
09/11/2025, 23:59	402	20.82	42.12	16.62	72.57	169.05
10/11/2025, 23:59	413	21.79	42.98	20.96	114.92	288.88
11/11/2025, 23:59	418	21.33	47.19	13.45	135.9	339.7
12/11/2025, 23:59	387	20.28	53.9	10.61	71.83	134.52
13/11/2025, 23:59	446	21.9	47.24	14.44	201.32	630.57
14/11/2025, 23:59	436	23.16	46.43	11.75	159.03	523.06
15/11/2025, 23:59	359	24.23	44.39	11.14	64.77	120.27
16/11/2025, 23:59	254	24.19	43.69	12.83	38.57	76.96
17/11/2025, 23:59	114	20.18	53.66	13.01	15.04	41.38
18/11/2025, 23:59	81	18.88	55.77	11.46	16.22	31.16
19/11/2025, 23:59	201	18.34	51.54	10.64	25.15	47.86
20/11/2025, 23:59	202	23.49	45.05	12.92	25.44	47.89
21/11/2025, 23:59	282	21.5	45.22	13.4	45.45	83.35
22/11/2025, 23:59	202	17.64	56.62	9.19	25.38	45.38
23/11/2025, 23:59	221	16.35	58.16	7.61	30.23	54.65
24/11/2025, 23:59	245	19.59	51.19	8.29	36.3	66.12
25/11/2025, 23:59	62	17.73	62.21	5.47	10.82	21.69
26/11/2025, 23:59	72	20.83	50.63	10.83	14.31	27.26
27/11/2025, 23:59	146	19.4	47.46	11.65	22.31	40.2
28/11/2025, 23:59	181	18.5	57.5	7.11	24.04	44.97
29/11/2025, 23:59	386	21.09	48.78	9.67	71.42	130.98
30/11/2025, 23:59	401	20.16	48.37	10.37	79.18	145.36

## 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>	Temperature °C	Pressure HPa
01/11/2025, 23:59	2.72	139.55	100	334.79	68.95	20.88	59.8	16.74	1011.82
02/11/2025, 23:59	3.86	170.42	100	377.77	65.64	21.74	62.85	16.72	1008.71
03/11/2025, 23:59	2.48	274.17	100	303.54	75.23	11.12	36.23	13.21	1008.62
04/11/2025, 23:59	2.76	308.85	100	335.51	70.49	14.59	45.78	10.24	1018.02
05/11/2025, 23:59	1.39	53.9	100	539.71	68.32	38.91	112.65	10.21	1018.12
06/11/2025, 23:59	2.22	121.63	100	389.72	71.95	41.33	111.3	10	1012.75
07/11/2025, 23:59	1.98	99.22	100	348	70.29	19.21	55.12	10.6	1009.92
08/11/2025, 23:59	2.46	82.42	100	364.23	90.37	43.43	94.07	10.44	1007.04
09/11/2025, 23:59	1.57	216.15	100	413.29	88.28	49.07	238.46	10.37	1010.17
10/11/2025, 23:59	2.93	10.64	100	351.63	90.92	53.96	410.92	8.31	1008.6
11/11/2025, 23:59	2.17	289.64	100	398.63	91.53	66.73	496.74	6.63	1011.59
12/11/2025, 23:59	1.55	169.16	100	371.33	86.73	59.28	150.48	8.06	1015.52
13/11/2025, 23:59	2.04	150.69	100	405.14	91.12	70.34	959.53	6.25	1016.16
14/11/2025, 23:59	2.58	149.44	100	493.34	82.91	63.7	854.37	9.62	1013.1
15/11/2025, 23:59	2.58	195.36	100	541.69	81.18	60.01	138.4	10.76	1007.7
16/11/2025, 23:59	3.69	181.92	100	472.24	78.05	35.95	96.46	11.94	1005.08
17/11/2025, 23:59	5.19	198.3	100	318.13	71.49	12.22	60.81	13.42	998.32
18/11/2025, 23:59	3.6	340.09	100	341.08	81.36	14.95	38.87	6.87	
19/11/2025, 23:59	1.34	92.16	100	361.01	72.86	23.35	58.68	7.24	
20/11/2025, 23:59	3.52	156.23	100	446.49	82.97	23.63	57.35	9.48	
21/11/2025, 23:59	0.63	317.17	100	412.08	89.48	39.94	92.29	7.42	
22/11/2025, 23:59	4.08	352.79	100	334.95	89.72	23.69	50.3	3.35	
23/11/2025, 23:59	3.69	260.38	100	367.54	85.43	28.04	60.81	2.29	
24/11/2025, 23:59	4.82	163.67	100	438.63	83.46	33.96	74.7	3.69	
25/11/2025, 23:59	9.78	163.51	100	335.42	70.7	9.58	28.35	10.29	
26/11/2025, 23:59	3.19	215.82	100	382.28	76.7	13.1	34.06	7.83	
27/11/2025, 23:59	3.81	347.47	100	367.73	81.27	20.95	46.72	3.69	
28/11/2025, 23:59	3.1	357.72	100	315.51	84.72	22.42	52.64	2.86	
29/11/2025, 23:59	2.29	314.99	100	388.2	89.71	62.82	143.29	3.4	
30/11/2025, 23:59	1.9	223.87	100	425.16	89.7	67.65	159.54	4.32	

Oizom will not be responsible for Environmental Data accuracy once Validated