

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



Media indicelui de calitate al aerului (ICA): 339

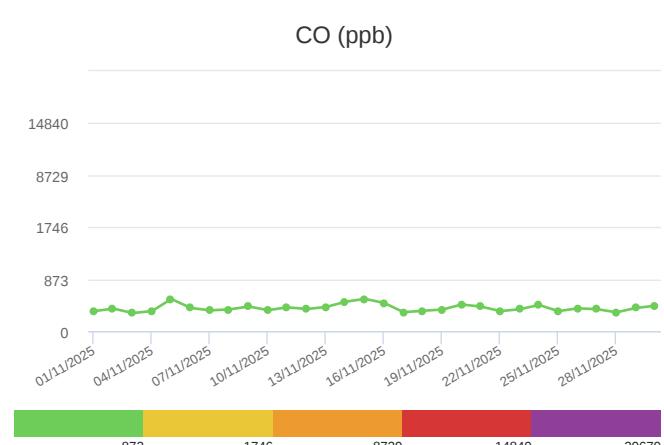
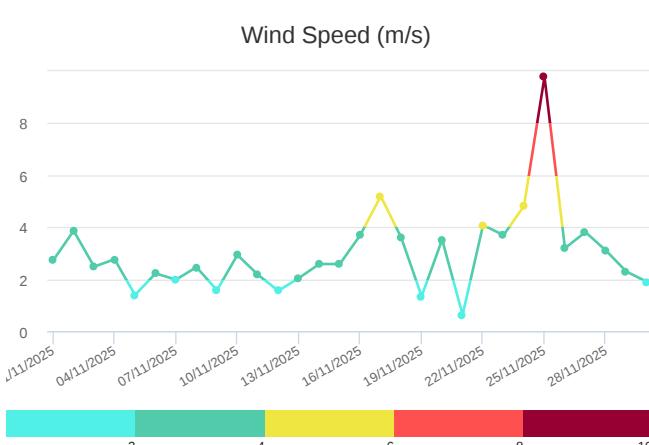
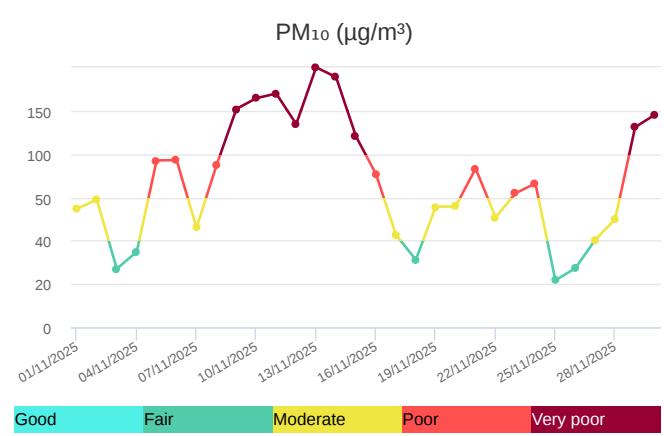
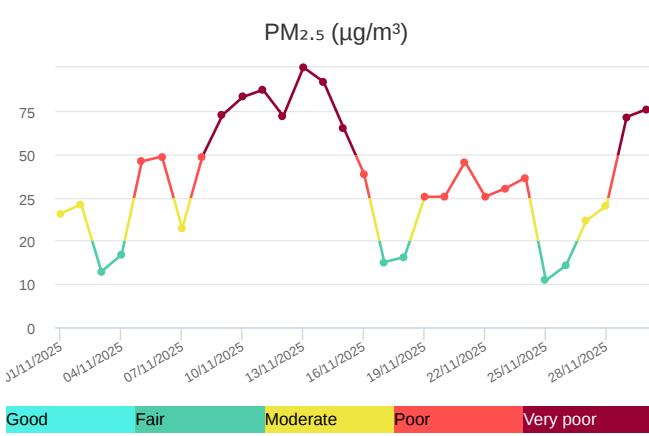
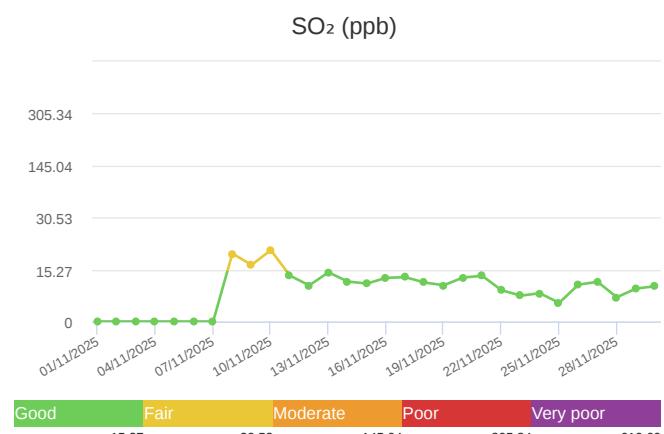
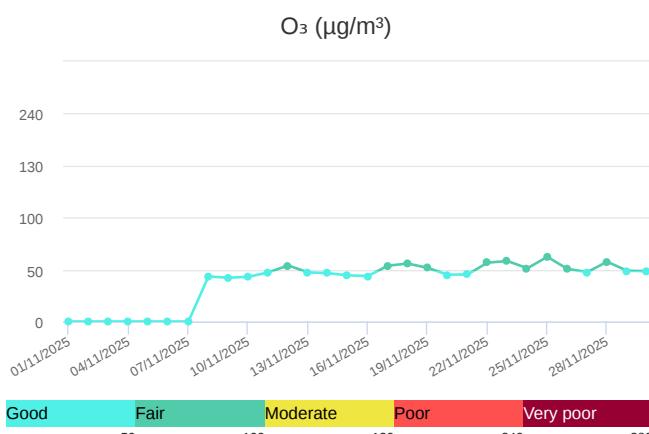
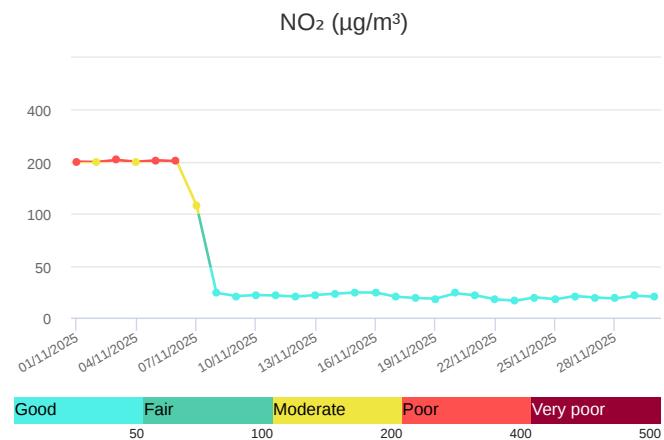
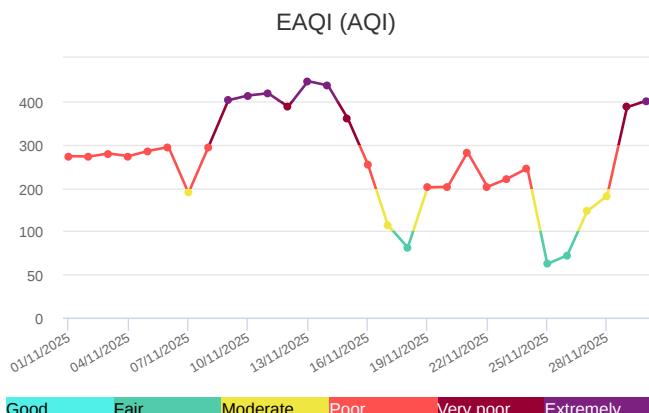
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

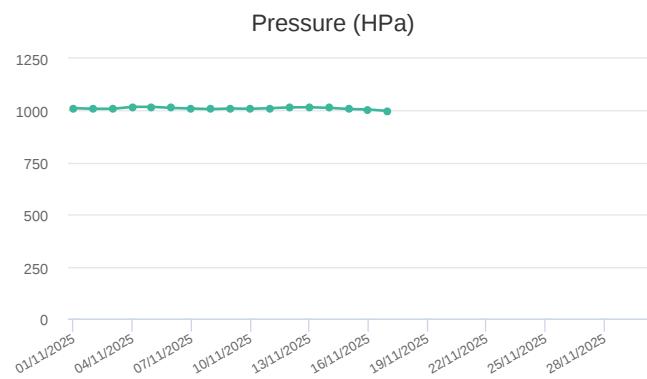
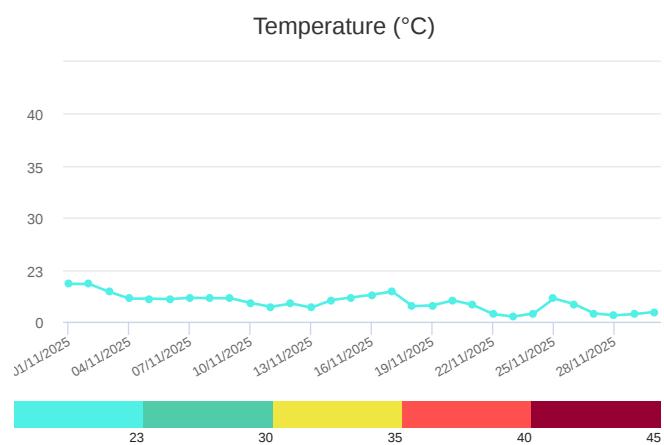
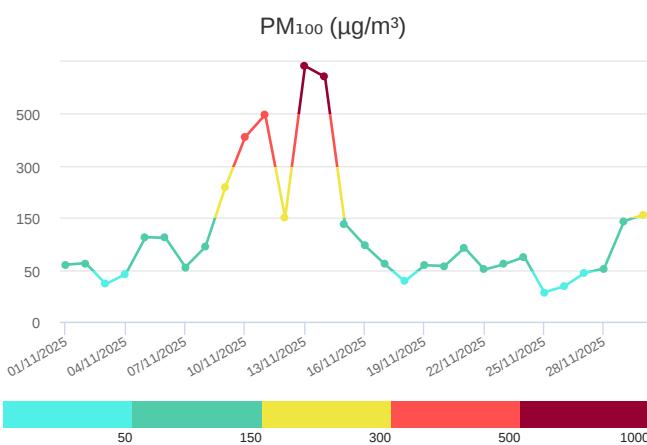
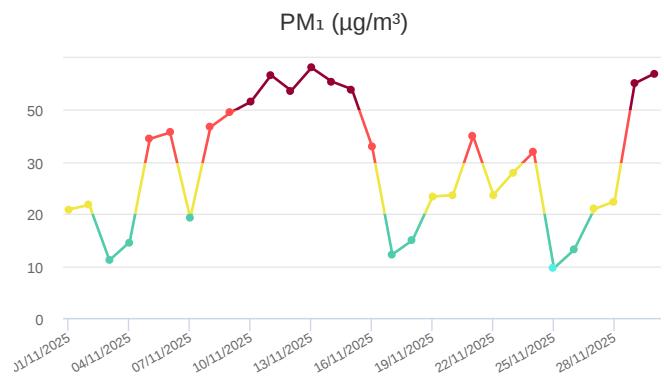
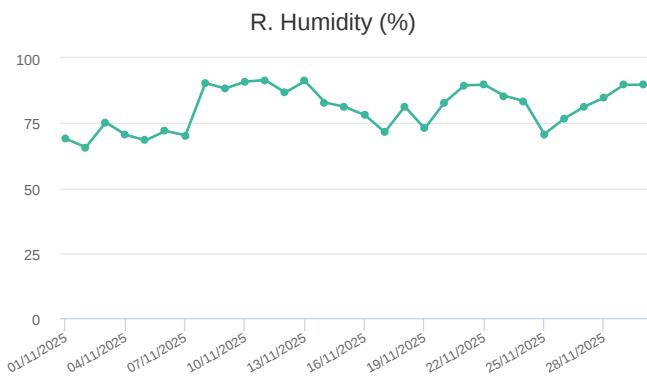
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	339	60.21	0	0	51.38	119.51
Maximum	446	207	62.21	20.96	201.32	630.57
Date	13/11/2025	03/11/2025	25/11/2025	10/11/2025	13/11/2025	13/11/2025
Minimum	62	16.35	0	0	10.82	21.69
Date	25/11/2025	23/11/2025	01/11/2025	01/11/2025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

Prezentare generală zilnică: Alți parametri

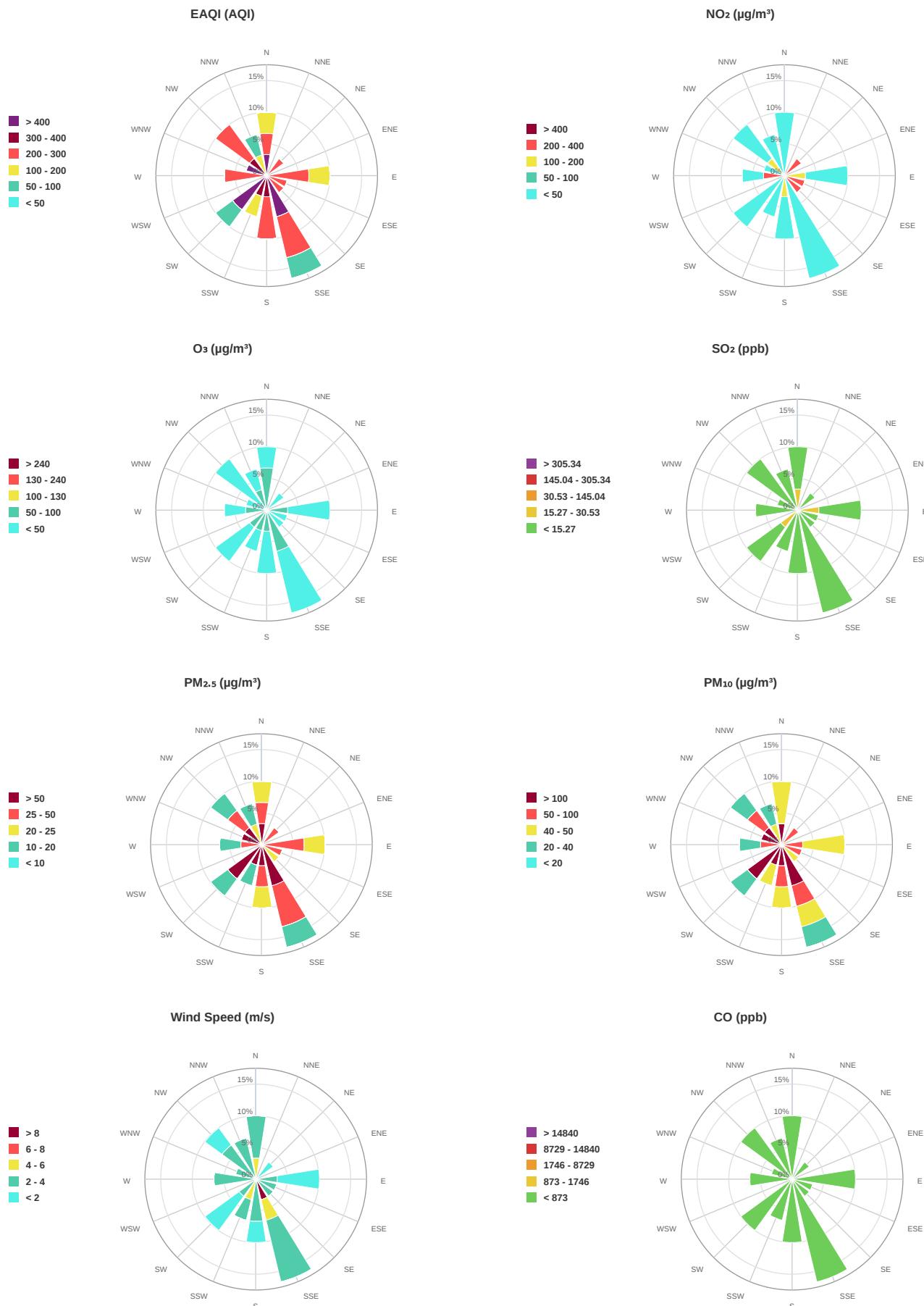
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Temperature °C	Pressure HPa
Average	0.81	184.1	100	389.16	80.72	35.55	162.72	8.54	1010.66
Maximum	9.78	163.51	100	541.69	91.53	70.34	959.53	16.74	1018.12
Date	25/11/2025	25/11/2025	01/11/2025	15/11/2025	11/11/2025	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

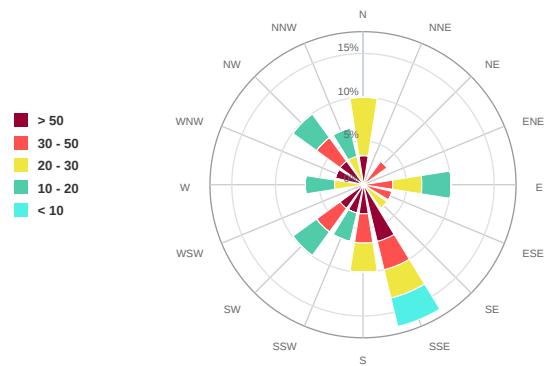
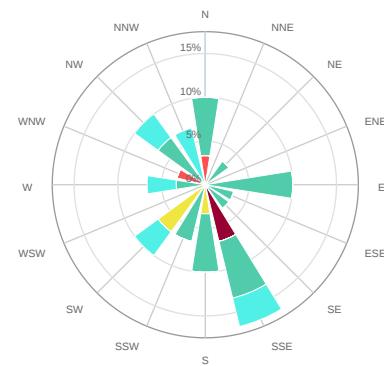
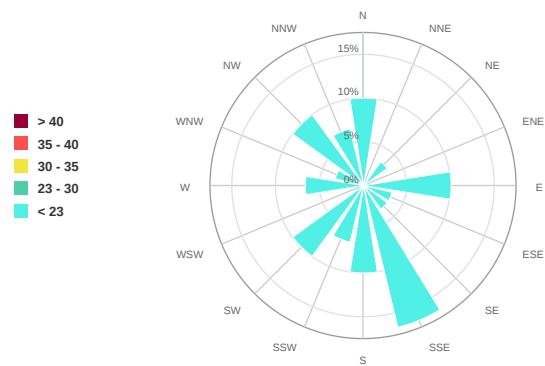
Weekly Average





Weekly Average



PM1 ($\mu\text{g}/\text{m}^3$)

PM100 ($\mu\text{g}/\text{m}^3$)

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_{2.5} Concentrations Driving Poor Air Quality:** High PM_{2.5} levels (often above 25 µg/m³) contributed significantly to the poor EAQI, exceeding 'Poor' category. The highest PM_{2.5} recorded was 201.32 µg/m³.
- 15/11/2025, 23:59 **High PM₁₀ Levels Indicate Significant Particulate Pollution:** PM₁₀ concentrations frequently reached 'Very Poor' or 'Extremely Poor' levels, with values over 100 µg/m³, indicating substantial coarse particulate matter pollution. Max level reached 630.57 µg/m³.
- 06/11/2025, 23:59 **NO₂ Levels Consistently in Extremely Poor Range:** NO₂ concentrations were alarmingly high. NO₂ levels often exceeding 180.67 µg/m³, contributing to the 'Extremely Poor' air quality classification.
- 25/11/2025, 23:59 **Ozone (O₃) Levels Fluctuations:** Ozone levels fluctuated, occasionally reaching 'Poor' levels with maximum value of 122.13 µg/m³, before dropping back to zero, implying complex atmospheric chemistry.
- 30/11/2025, 23:59 **SO₂ Levels generally within safe limits:** Sulfur Dioxide (SO₂) levels remained relatively low, suggesting that SO₂ 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_{2.5} and PM₁₀ 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 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 **PM1 closely follows the PM2.5 trend:** The values of PM1 are always very close to PM2.5 values. So, most of the particulate pollution is concentrated in PM1 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 **PM100 follows PM10 Trend:** There is a strong trend for PM100 to follow the levels of PM10. Hence, it is likely that PM100 contains much of PM10 particulate matter.
- 30/11/2025, 23:59 **EAQI and EAQI (AQI) are same:** EAQI and EAQI (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 **NO₂ is not the only pollutants:** NO₂ is not the only pollutant that determines the EAQI category. It can be observed that even if NO₂ 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, PM10, PM2.5 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 ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
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

Altı 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	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