Primaria Comlosu Mare

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Comlosu Mare**
Locația dispozitivului: **489, Comloșu Mare 307120, Romania**

Parametrii: **EAQI , NO_2 , O_3 , SO_2 , $PM_{2.5}$, PM_{10} , Wind Speed , Wind Direction , CO , R. Humidity , PM_1 , PM_{100} , Temperature**

Media indicelui de calitate al aerului (ICA): **409**

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	409	21.03	48.38	10.02	93.43	239.54
Maximum	467	27.41	61.34	14.72	309.28	858.62
Date	09/12/2025	18/12/2025	30/12/2025	10/12/2025	09/12/2025	09/12/2025
Minimum	70	16.79	39.74	1.36	13.96	27.73
Date	30/12/2025	29/12/2025	18/12/2025	29/12/2025	30/12/2025	30/12/2025

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Prezentare generală zilnică: Alți parametri

	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Temperature °C
Average	0.35	107.8	100	457.59	88.18	49.8	342.81	4.78
Maximum	5.42	308.62	100	729.3	93.78	93.89	1272.61	9.63
Date	28/12/2025	28/12/2025	01/12/2025	18/12/2025	09/12/2025	09/12/2025	09/12/2025	05/12/2025
Minimum	0.52	305.89	100	336.49	75.83	12.34	34.97	-0.28
Date	12/12/2025	12/12/2025	01/12/2025	28/12/2025	30/12/2025	30/12/2025	30/12/2025	30/12/2025

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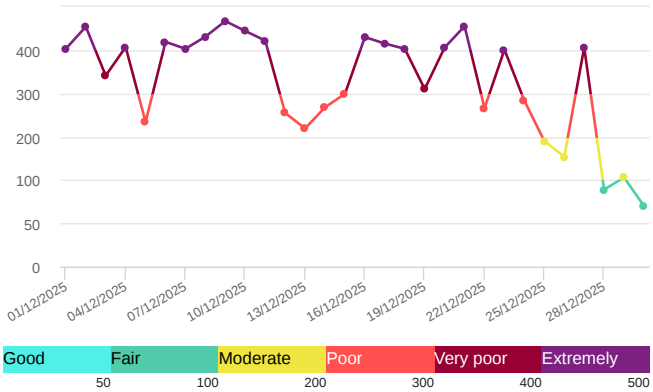
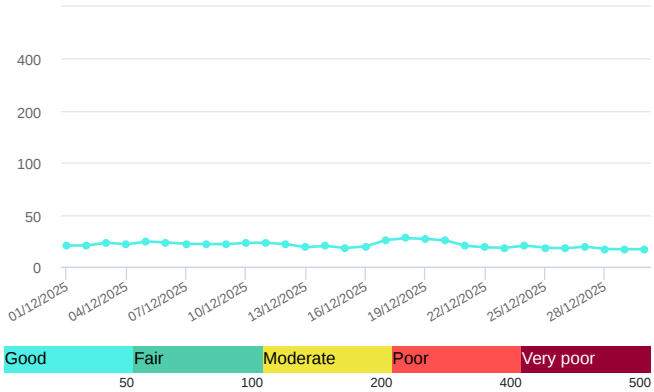
Weekly Average

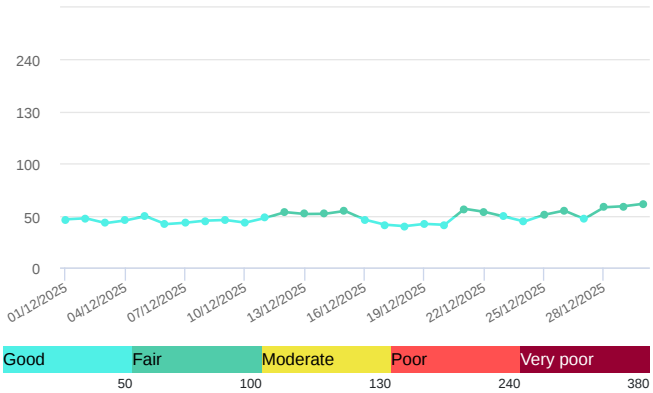
EAQI (AQI)



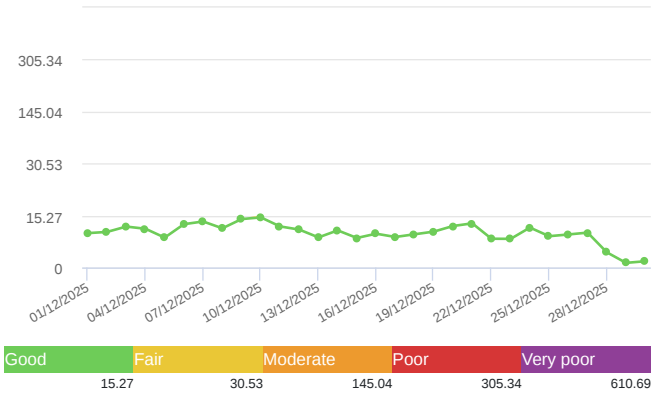
NO_2 (µg/m³)



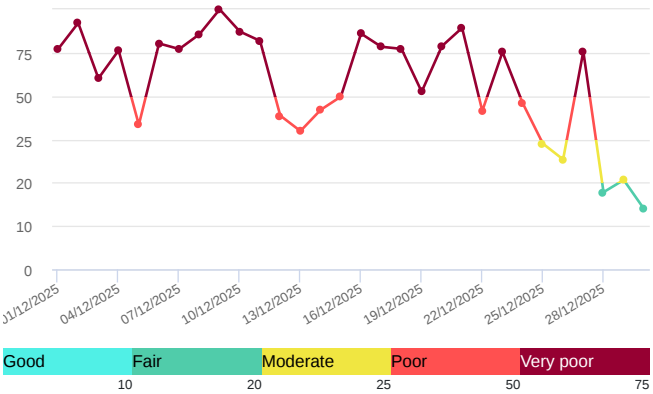
O_3 (µg/m³)



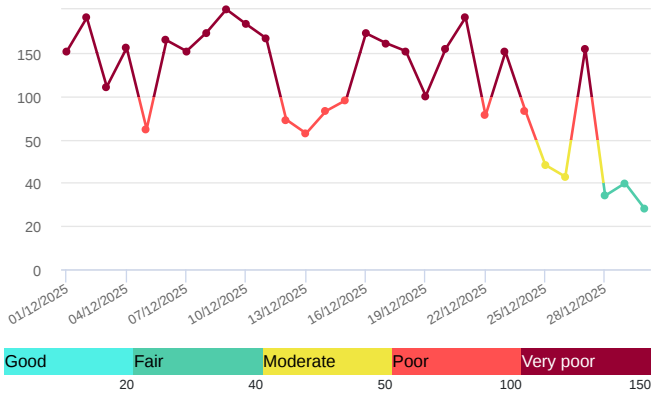
SO_2 (ppb)



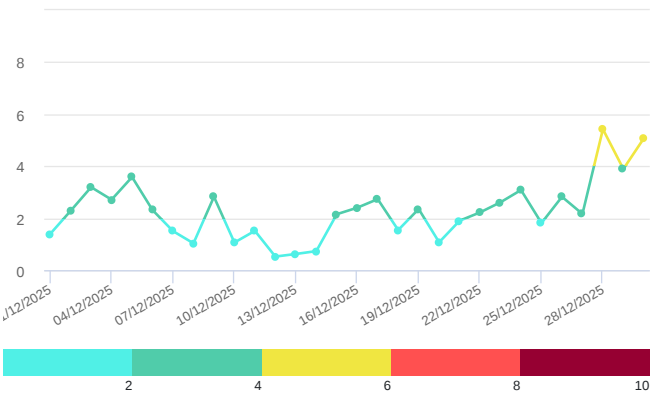
$PM_{2.5}$ (µg/m³)



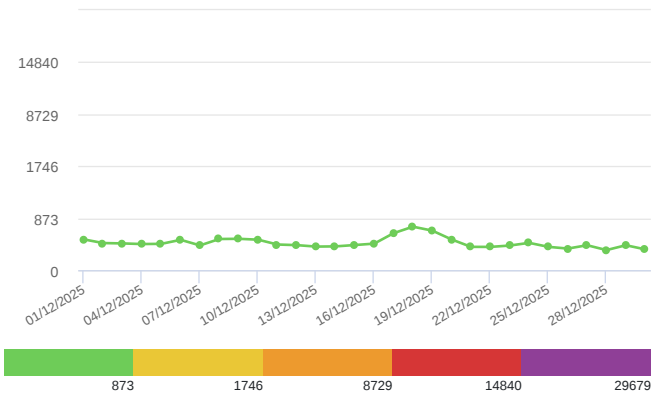
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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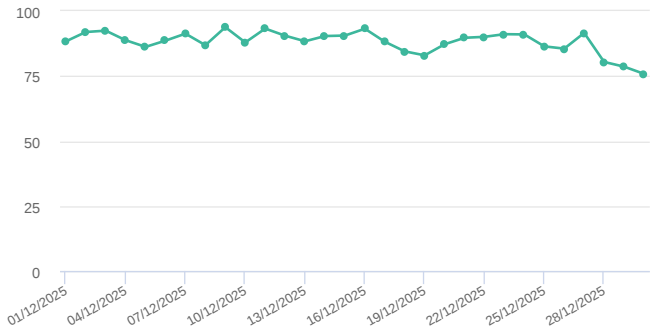
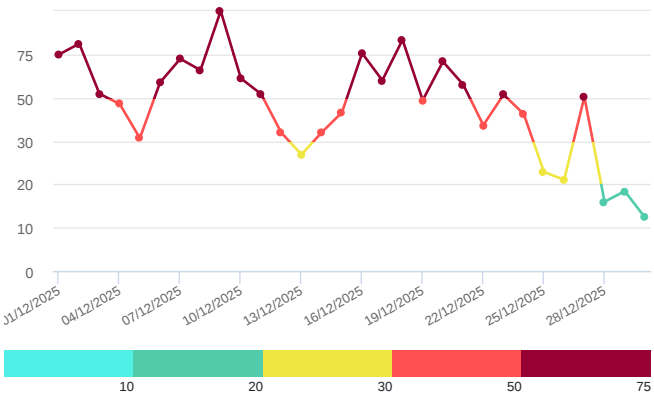
R. Humidity (%)

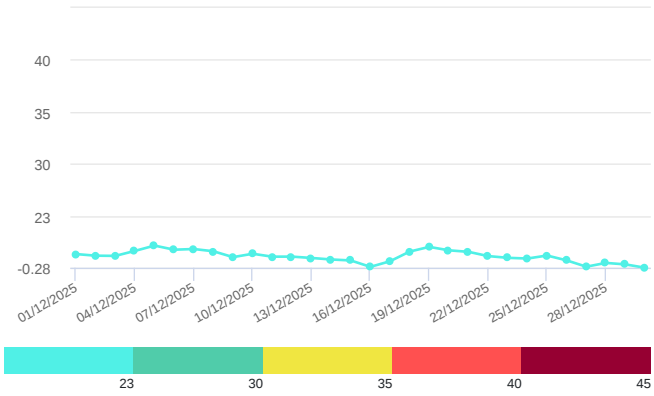


PM₁ (µg/m³)



PM₁₀₀ (µg/m³)

Temperature (°C)



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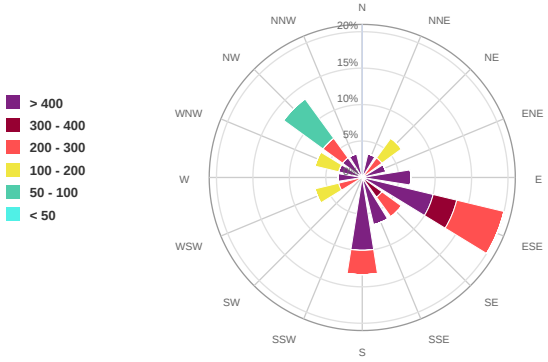
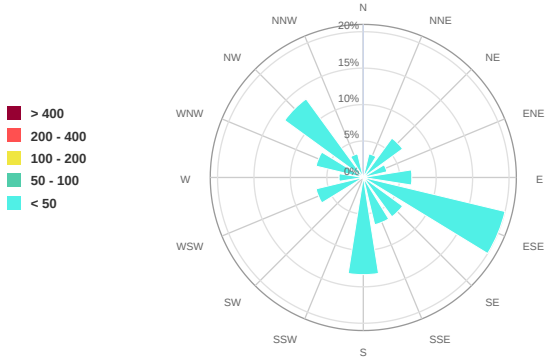
Weekly Average

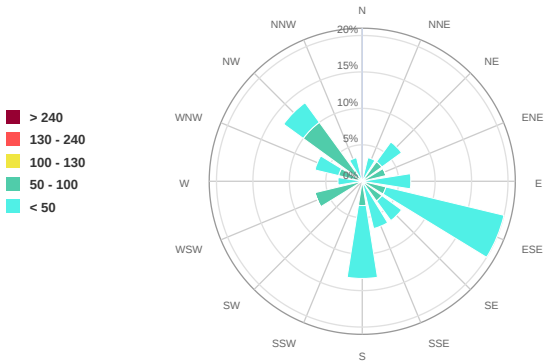
EAQI (AQI)



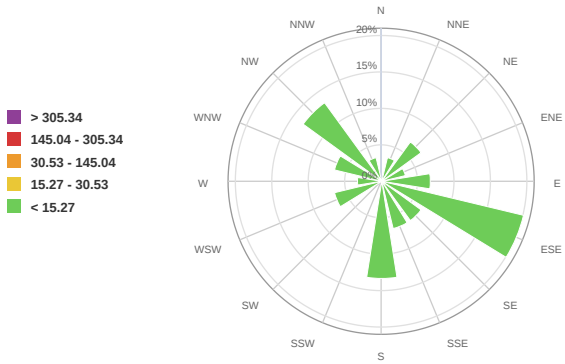
NO_2 (µg/m³)



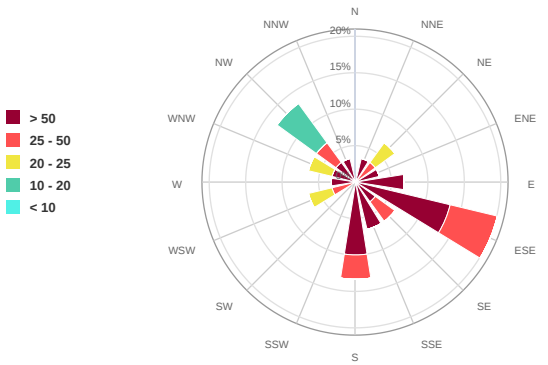
O_3 (µg/m³)



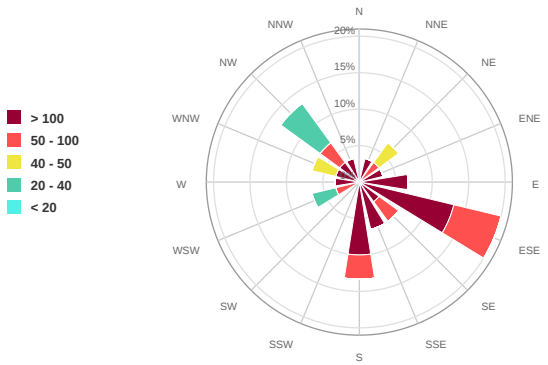
SO_2 (ppb)



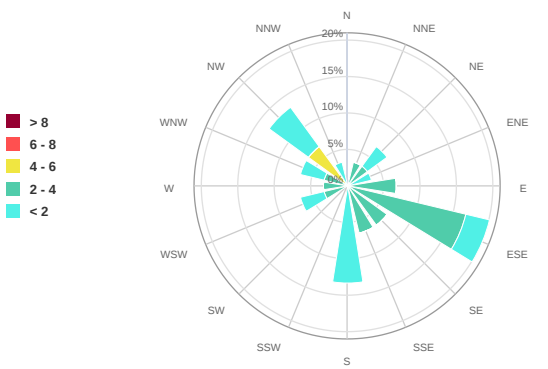
$PM_{2.5}$ (µg/m³)



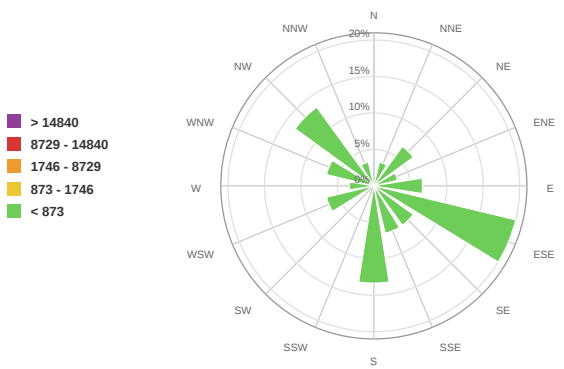
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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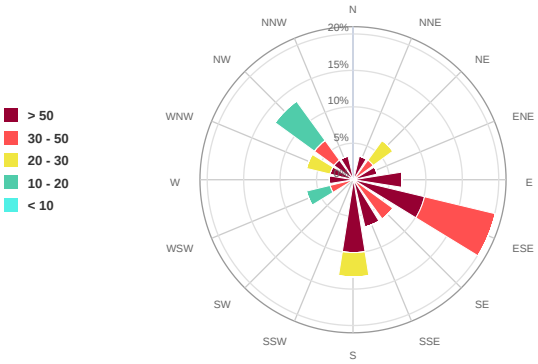
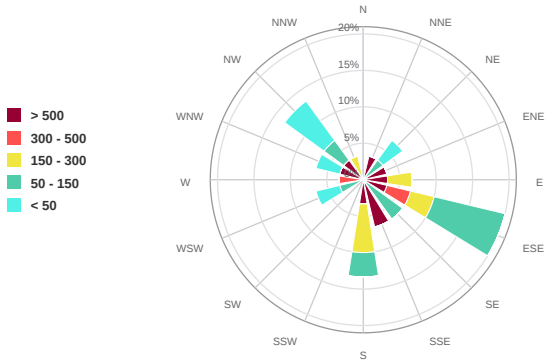
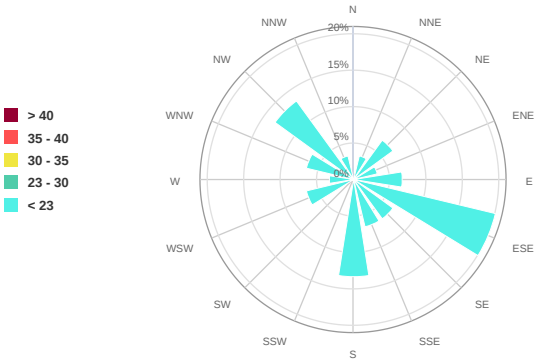
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



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Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI Consistently Reached Extremely Poor Levels**: The EAQI frequently reached 'Extremely Poor' levels, exceeding 400 on multiple days, indicating severely hazardous air quality conditions.
- 30/12/2025, 23:59 **High $PM_{2.5}$ Concentrations Correlate with Poor Air Quality**: Elevated $PM_{2.5}$ levels, often exceeding 75 µg/m³, coincide with 'Extremely Poor' EAQI ratings, demonstrating particulate matter's contribution to pollution.
- 30/12/2025, 23:59 **PM_{10} Shows Extreme Pollution Levels**: PM_{10} concentrations reached extremely polluted levels, exceeding 150 µg/m³ on several occasions, significantly impacting respiratory health.
- 30/12/2025, 23:59 **Ozone Levels Consistently in Moderate to Poor Range**: O_3 levels remained mostly within the 'Moderate' to 'Poor' range, suggesting consistent photochemical smog conditions. Levels ranged from 78.02 to 120.42 µg/m³.
- 30/12/2025, 23:59 **NO_2 Levels Generally Within Good to Moderate Range**: NO_2 concentrations stayed primarily within the 'Good' to 'Moderate' range according to defined thresholds, suggesting it is less of a dominant pollutant compared to PM.
- 30/12/2025, 23:59 **SO_2 Levels Consistently in the Good Zone**: SO_2 levels remained within the 'Good' zone throughout the monitoring period. The recorded range was between 1.36 and 14.72 ppb.
- 30/12/2025, 23:59 **Wind Speed Variation and Air Quality**: Wind speeds varied, potentially impacting pollutant dispersion. Days with lower wind speeds (around 1 m/s) often correlated with higher pollution levels.
- 30/12/2025, 23:59 **Temperature's Limited Impact on Air Quality**: Temperature fluctuations (from -0.28°C to 9.63°C) showed no strong correlation with overall EAQI, indicating other factors drive pollution.
- 30/12/2025, 23:59 **Humidity's Role in Air Quality**: High relative humidity (ranging from 75.83% to 93.78%) might contribute to the persistence of pollutants, hindering dispersion.
- 30/12/2025, 23:59 **CO Levels Consistently Elevated**: CO levels consistently remained elevated, often above 400 ppb, suggesting significant combustion sources of pollution are nearby.
- 09/12/2025, 23:59 **December 9th Shows Highest Pollution Levels**: The EAQI reached its peak on December 9th, with a value of 467, indicating the worst air quality during the observed timeframe.
- 28/12/2025, 23:59 **December 28th Shows Relatively Better Air Quality**: On December 28th, the EAQI was at 145, the lowest value recorded, representing the best, though still 'Moderate', air quality.
- 30/12/2025, 23:59 **PM_1 Dominates Fine Particulate Matter**: PM_1 concentrations consistently account for a significant portion of $PM_{2.5}$, indicating prevalence of ultrafine particles that penetrate deeply into lungs.
- 30/12/2025, 23:59 **High PM_{100} Values Suggest Coarse Particle Pollution**: Elevated PM_{100} values indicate presence of coarse particulate matter, possibly from construction, dust storms, or industrial activities.
- 30/12/2025, 23:59 **Wind Direction Influence on Air Quality**: Specific wind directions may correlate with higher pollution due to source locations. Further investigation required to identify pollution source impact.
- 15/12/2025, 23:59 **Extremely Poor Air Quality Predominant in Early December**: The first half of December experienced predominantly 'Extremely Poor' air quality. This suggests that pollution control measures are needed.
- 30/12/2025, 23:59 **Fluctuations Between Poor and Extremely Poor Conditions**: Air quality fluctuated between 'Poor' and 'Extremely Poor' levels, highlighting the dynamic nature of pollution and potential influencing factors.
- 30/12/2025, 23:59 **Industrial activity and pollution**: The recorded data clearly indicates the location is heavily impacted by industrial activity considering that consistently high pollution data is seen.
- 30/12/2025, 23:59 **Higher wind speeds correlate with lower PM10**: On days where the PM10 values are relatively low there is a corresponding high wind speed suggesting dispersion of particles due to winds.
- 30/12/2025, 23:59 **Higher wind speeds correlate with lower PM2.5**: Days where the PM2.5 values are relatively low there is a corresponding high wind speed suggesting dispersion of particles due to winds.
- 02/12/2025, 23:59 **Highest Recorded $PM_{2.5}$ Concentration**: The highest $PM_{2.5}$ concentration was 235.71 µg/m³ on December 2nd, classified as 'Extremely Poor'. This value greatly exceeds the threshold.
- 16/12/2025, 23:59 **Elevated PM_1 and $PM_{2.5}$ on December 16th**: PM_1 recorded was at 75.49 µg/m³ and $PM_{2.5}$ was 178.11 µg/m³ on December 16th. These extreme values resulted in Extremely Poor air quality.
- 30/12/2025, 23:59 **Moderate Air Quality Days: $PM_{2.5}$ Below 25 µg/m³**: During the 'Moderate' air quality days, $PM_{2.5}$ concentrations were consistently below 25 µg/m³, highlighting the impact of particulate matter reduction.
- 21/12/2025, 23:59 **PM_{10} Exceeds 700 µg/m³ on December 2nd and 21st**: PM_{10} reaches alarming levels (722.22 & 727 µg/m³) on December 2nd and 21st, categorizing the air quality as 'Extremely Poor'.
- 29/12/2025, 23:59 **December 29th Ozone Highest Concentration in Range**: The ozone levels reached 115.69 µg/m³ on 29th December. This level is relatively high compared to the range observed.
- 17/12/2025, 23:59 **December 17th shows high levels of CO**: The carbon monoxide (CO) levels are the highest on December 17th in the given dataset. The recorded concentration was 619.58 ppb.
- 30/12/2025, 23:59 **December 30th shows lowest temperatures**: The temperatures were lowest on December 30th in the given dataset. The recorded temperature was -0.28°C.

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- 30/12/2025, 23:59 **Overall PM_{10} Trended Higher Than $PM_{2.5}$**: On average, PM_{10} values significantly exceeded $PM_{2.5}$ values throughout December, suggesting a higher prevalence of coarser particulate matter.
- 30/12/2025, 23:59 **Consistent Battery Life Indicates Reliable Data**: The battery percentage consistently remains at 100%, suggesting that the data is reliable because of consistent data logging.
- 30/12/2025, 23:59 **Impact of Temperature Inversions on Pollution**: Lower temperatures combined with stable atmospheric conditions (low wind speed) might be contributing to temperature inversions, trapping pollutants.

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Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
01/12/2025, 23:59	403	20.42	46.31	10.09	93.95	174.17
02/12/2025, 23:59	454	20.42	47.35	10.45	235.71	722.22
03/12/2025, 23:59	341	23.12	42.72	12.01	60.18	110.63
04/12/2025, 23:59	407	21.54	45.31	11.38	87.68	228.04
05/12/2025, 23:59	234	24.27	49.32	8.78	33.4	61.78
06/12/2025, 23:59	419	23.3	41.71	12.72	125.01	353.18
07/12/2025, 23:59	403	22.07	43.05	13.52	94.76	174.48
08/12/2025, 23:59	431	21.75	45.05	11.51	174.89	478.12
09/12/2025, 23:59	467	21.71	45.68	14.22	309.28	858.62
10/12/2025, 23:59	444	22.93	43.14	14.72	189.25	615.77
11/12/2025, 23:59	422	23.03	47.64	12.06	139.01	385.18
12/12/2025, 23:59	255	21.59	53.23	11.13	38.71	72.81
13/12/2025, 23:59	219	18.82	51.43	8.84	29.78	56.84
14/12/2025, 23:59	268	19.93	51.63	10.9	42.01	82.71
15/12/2025, 23:59	299	18.02	54.42	8.67	49.64	95.28
16/12/2025, 23:59	430	19.62	45.99	9.92	178.11	468.36
17/12/2025, 23:59	415	25.67	41.19	8.96	107.07	307.2
18/12/2025, 23:59	403	27.41	39.74	9.75	95.55	176.53
19/12/2025, 23:59	310	26.81	41.96	10.53	52.48	100.12
20/12/2025, 23:59	406	25.22	41.05	12.18	110.12	213.67
21/12/2025, 23:59	455	20.08	56.44	12.97	209.3	727
22/12/2025, 23:59	266	18.62	53.52	8.45	41.4	77.65
23/12/2025, 23:59	401	18.23	48.94	8.42	78.82	161.78
24/12/2025, 23:59	283	20.27	44.24	11.72	45.87	82.75
25/12/2025, 23:59	190	18.35	50.72	9.2	24.5	44.08
26/12/2025, 23:59	154	17.68	54.77	9.69	22.68	41.38
27/12/2025, 23:59	406	19.3	46.68	10.24	81.64	214.36
28/12/2025, 23:59	89	17.12	57.89	4.46	17.8	33.98
29/12/2025, 23:59	106	16.79	58.93	1.36	20.31	39.79
30/12/2025, 23:59	70	16.84	61.34	1.84	13.96	27.73

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Alți 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	Temperature °C
01/12/2025, 23:59	1.39	173.86	100	515.1	88.32	74.93	193.28	5.84
02/12/2025, 23:59	2.28	111.36	100	453.63	91.92	79.67	1059.83	5.13
03/12/2025, 23:59	3.19	122.36	100	448.07	92.44	52.22	123.74	5.03
04/12/2025, 23:59	2.71	109.99	100	437.16	88.76	47.11	345.07	7.27
05/12/2025, 23:59	3.58	119.96	100	440.65	86.2	31.31	71.15	9.63
06/12/2025, 23:59	2.31	23.19	100	508.49	88.61	58.79	560.12	7.79
07/12/2025, 23:59	1.5	348.62	100	414.59	91.29	72.42	189.61	8.1
08/12/2025, 23:59	1.03	290.13	100	521.72	86.86	65.88	719	7.1
09/12/2025, 23:59	2.82	163.49	100	525.54	93.78	93.89	1272.61	4.48
10/12/2025, 23:59	1.06	177.97	100	511.05	87.91	61.12	966.62	5.98
11/12/2025, 23:59	1.51	308.91	100	429.79	93.24	52.11	569.56	4.68
12/12/2025, 23:59	0.52	305.89	100	418.85	90.5	33.83	82.85	4.7
13/12/2025, 23:59	0.62	189.58	100	394.83	88.36	26.88	66.22	4.09
14/12/2025, 23:59	0.73	247.27	100	398.22	90.37	33.95	98.98	3.42
15/12/2025, 23:59	2.15	127.88	100	420.5	90.56	43.16	110.95	2.99
16/12/2025, 23:59	2.4	83.62	100	444.07	93.18	75.49	761.14	0.11
17/12/2025, 23:59	2.73	148.4	100	619.58	88.18	60	562.91	2.64
18/12/2025, 23:59	1.54	181.57	100	729.3	84.47	81.37	196.49	6.96
19/12/2025, 23:59	2.35	140.07	100	662.78	82.95	48.83	117.47	9.05
20/12/2025, 23:59	1.07	110.4	100	513.97	87.21	70.8	238.03	7.51
21/12/2025, 23:59	1.9	60.71	100	390.33	89.7	57.61	1020.67	6.85
22/12/2025, 23:59	2.22	104.41	100	389.75	90.07	37.3	86.83	4.94
23/12/2025, 23:59	2.61	95.24	100	411.88	91.09	51.78	193.64	4.17
24/12/2025, 23:59	3.08	48.03	100	457.14	90.99	42.44	91.03	3.84
25/12/2025, 23:59	1.81	51.75	100	390.24	86.4	22.86	49.79	5.2
26/12/2025, 23:59	2.82	299.1	100	361.46	85.53	21.04	46.96	3.03
27/12/2025, 23:59	2.16	261.43	100	416.92	91.57	50.44	365.76	0.18
28/12/2025, 23:59	5.42	308.62	100	336.49	80.4	15.98	40.3	1.88
29/12/2025, 23:59	3.89	257.98	100	417.01	78.6	18.41	48.6	1.2
30/12/2025, 23:59	5.07	306.25	100	348.48	75.83	12.34	34.97	-0.28

Oizom will not be responsible for Environmental Data accuracy once Validated

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