Primaria Ciacova

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Ciacova**
Locația dispozitivului: **Piaţa Cetăţii 10, Ciacova, 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} , Pressure , Temperature**

Media indicelui de calitate al aerului (ICA): **362**

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

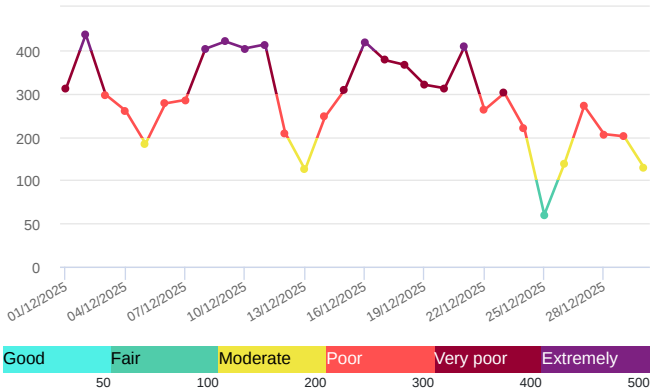
	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	362	16.06	2.79	2.48	51.98	131.24
Maximum	436	22.78	11.87	3.51	167.86	527.63
Date	02/12/2025	18/12/2025	30/12/2025	07/12/2025	02/12/2025	02/12/2025
Minimum	60	12.1	0	1.43	11.28	23.81
Date	25/12/2025	25/12/2025	02/12/2025	05/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

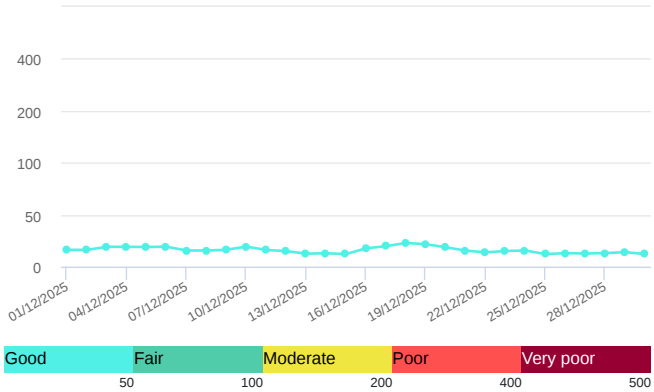
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Pressure HPa	Temperature °C
Average	0.32	117.07	100	442.59	82.99	35.83	216.73	1014.07	5.73
Maximum	5.11	126.69	100	825.94	88.42	61.59	991.81	1021.9	12.6
Date	05/12/2025	05/12/2025	01/12/2025	18/12/2025	09/12/2025	02/12/2025	02/12/2025	14/12/2025	05/12/2025
Minimum	0.19	193.04	100	287.61	72.36	10.15	34.01	1001.62	0.1
Date	14/12/2025	14/12/2025	01/12/2025	14/12/2025	05/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

Weekly Average

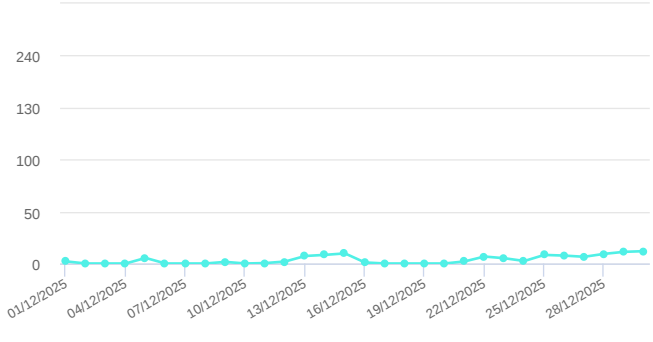
EAQI (AQI)

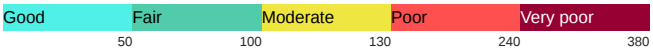


NO_2 (µg/m³)

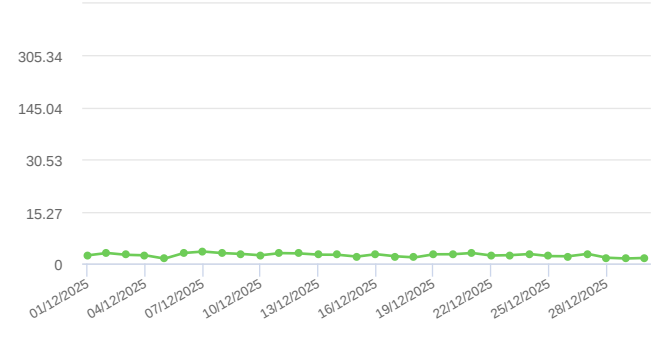


O_3 (µg/m³)

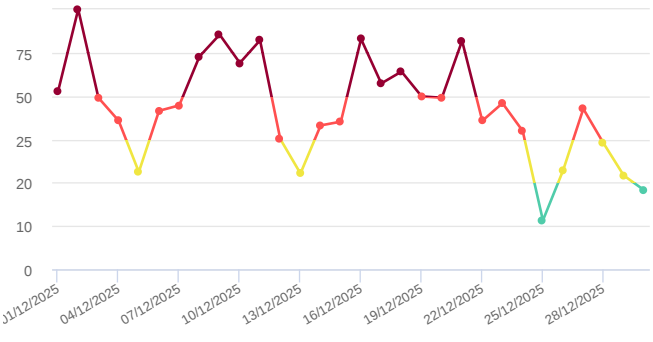


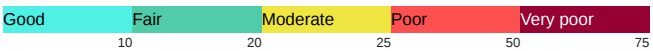


SO_2 (ppb)

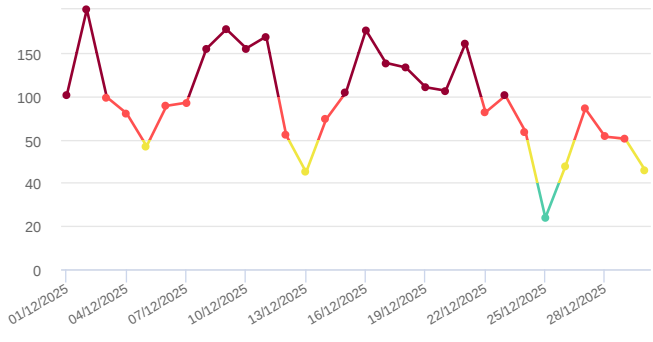


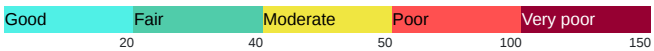
$PM_{2.5}$ (µg/m³)



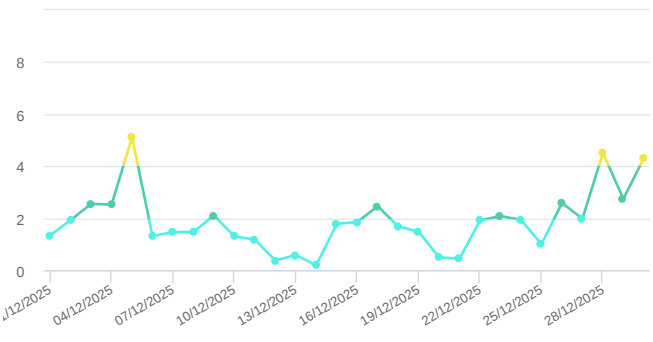


PM_{10} (µg/m³)

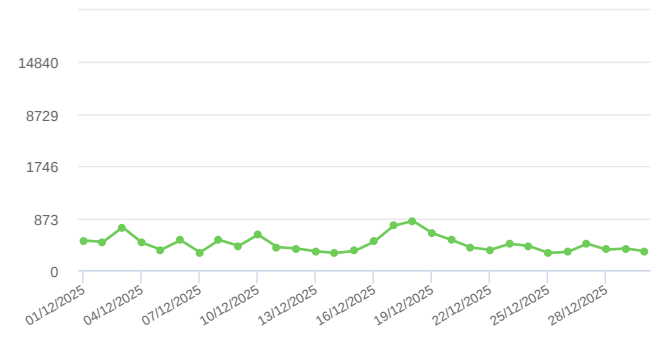




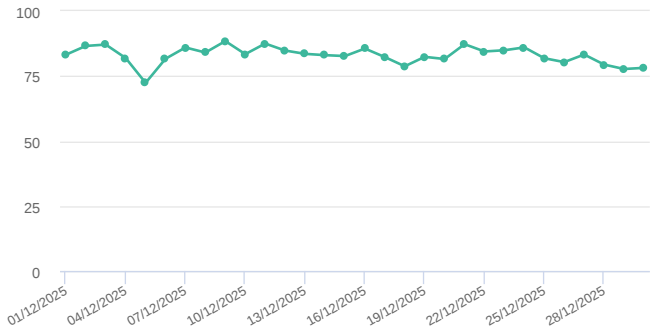
Wind Speed (m/s)



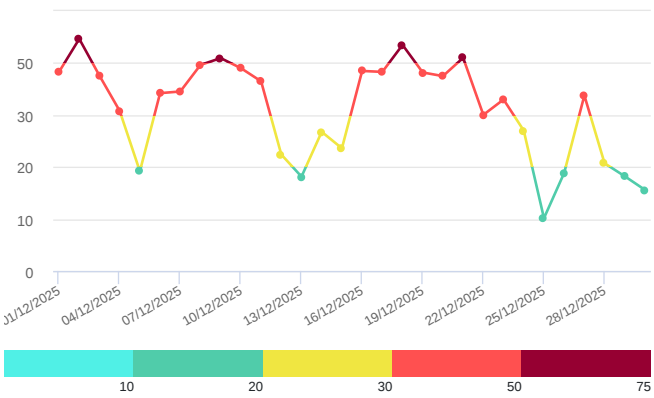
CO (ppb)



R. Humidity (%)

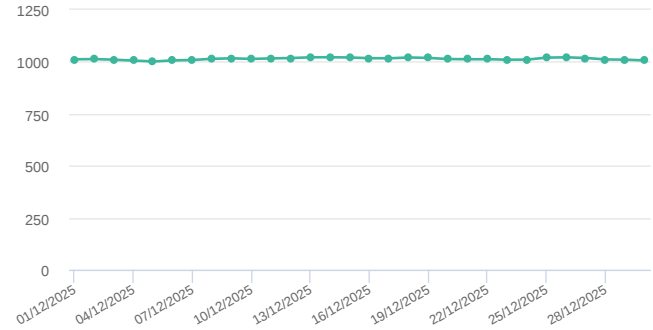


PM₁ (µg/m³)

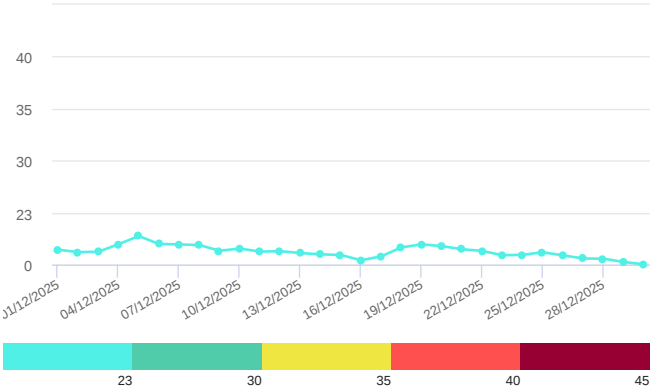


PM₁₀₀ (µg/m³)

Pressure (HPa)

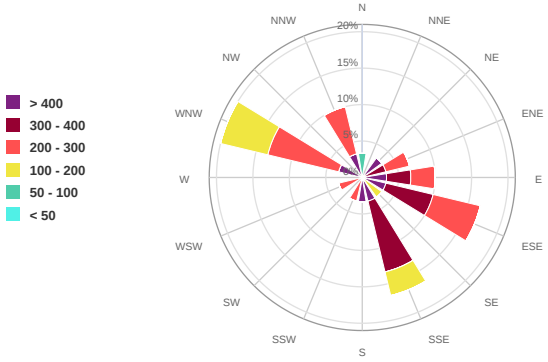


Temperature (°C)

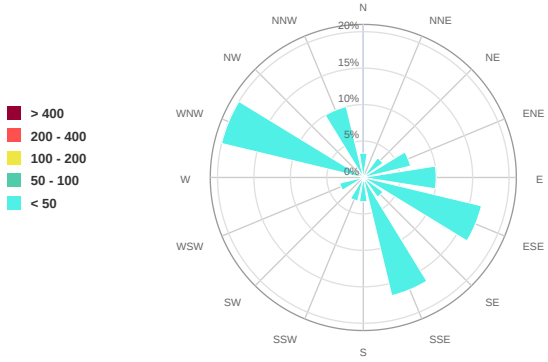


Weekly Average

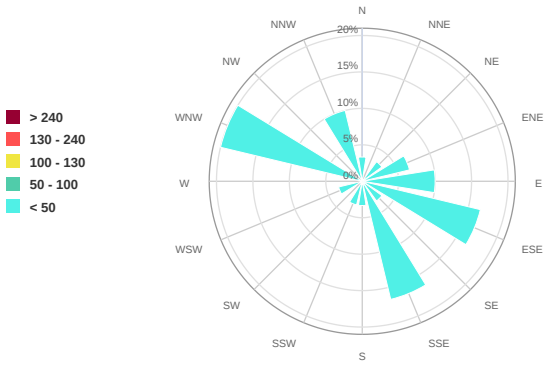
EAQI (AQI)



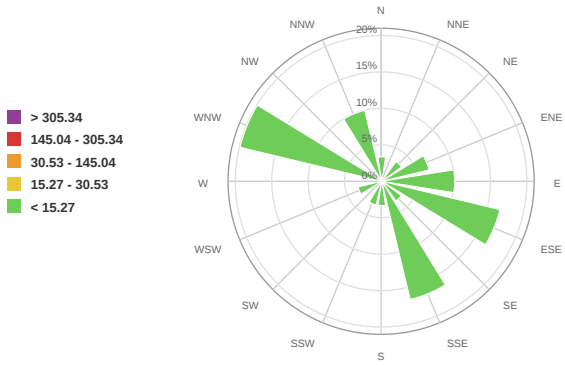
NO_2 (µg/m³)



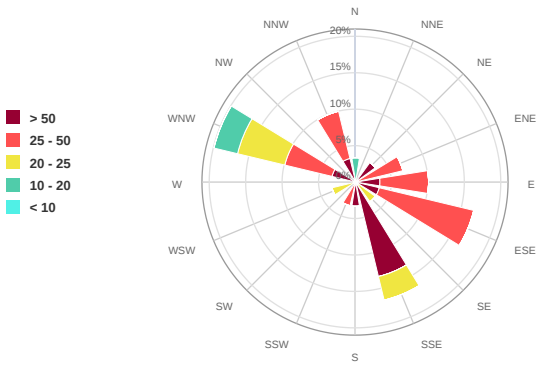
O_3 (µg/m³)



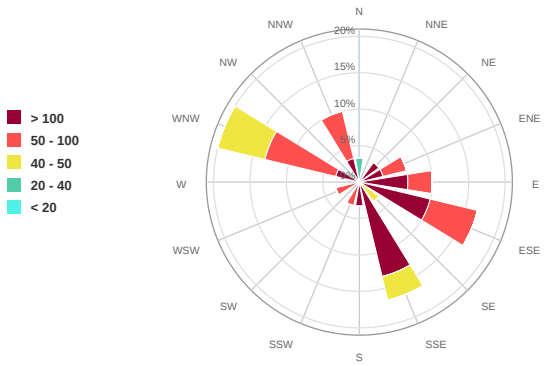
SO_2 (ppb)



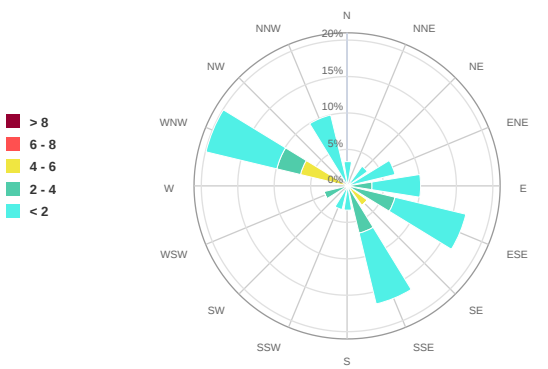
$PM_{2.5}$ (µg/m³)



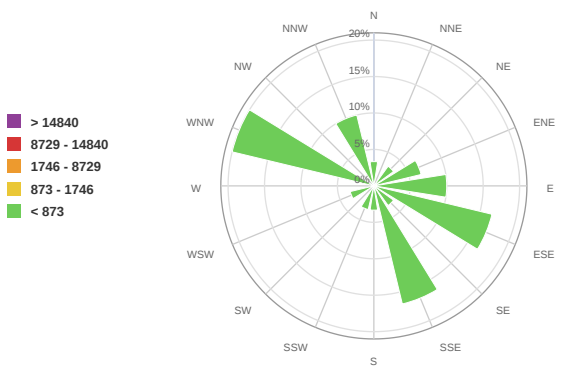
PM_{10} (µg/m³)



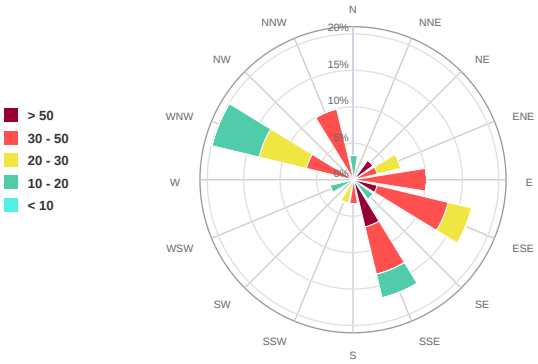
Wind Speed (m/s)



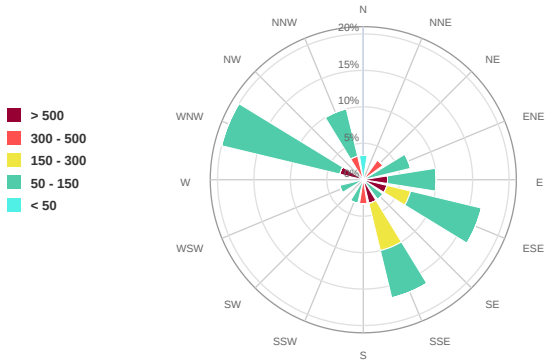
CO (ppb)



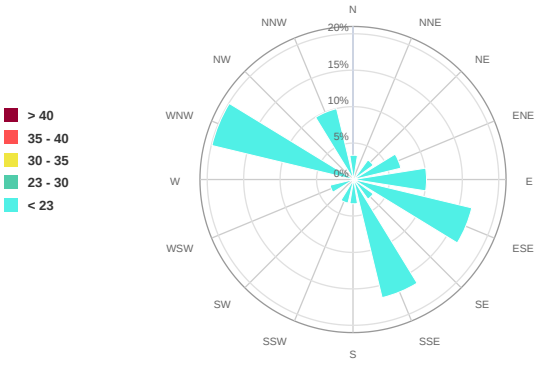
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI consistently reached 'Extremely Poor' levels**: The EAQI reached 'Extremely Poor' levels (400-500) on 8 out of 30 days, posing a significant health risk.
- 30/12/2025, 23:59 **High $PM_{2.5}$ concentrations frequently recorded**: $PM_{2.5}$ levels exceeded the 'Poor' threshold (25 µg/m³) on 18 out of 30 days, directly impacting respiratory health.
- 30/12/2025, 23:59 **PM_{10} levels often exceeded safety guidelines**: PM_{10} concentrations were frequently in the 'Poor' to 'Extremely Poor' range. Several days surpassed 100 µg/m³ threshold.
- 30/12/2025, 23:59 **Ozone levels primarily 'Good' or non-existent**: O_3 concentrations were largely within the 'Good' range or at 0 µg/m³ on many days, with a few instances of 'Fair' levels.
- 30/12/2025, 23:59 **SO_2 levels consistently within 'Good' range**: SO_2 concentrations remained consistently low, staying within the 'Good' range across all recorded days.
- 30/12/2025, 23:59 **NO_2 levels mostly within 'Good' to 'Fair' ranges**: NO_2 concentrations primarily fell within the 'Good' to 'Fair' ranges, suggesting a moderate impact from combustion sources.
- 30/12/2025, 23:59 **Highest PM_{10} levels coincide with 'Extremely Poor' EAQI**: Days with 'Extremely Poor' EAQI values often correspond to exceptionally high PM_{10} concentrations (e.g., Dec 2nd, 9th, 16th).
- 30/12/2025, 23:59 **Wind speed's limited correlation with air quality**: There's no strong correlation between wind speed and air quality. High and low wind speeds recorded with various EAQI values.
- 30/12/2025, 23:59 **Temperature Inversion Possible Impact**: Lower temperatures correlate with more instances of 'Very Poor' and 'Extremely Poor' air quality, suggesting a potential inversion effect.
- 25/12/2025, 23:59 **December 25th Shows Significant Air Quality Improvement**: December 25th recorded an EAQI in the 'Fair' range at 60, significantly lower than the 'Extremely Poor' levels seen throughout the month.
- 30/12/2025, 23:59 **R. Humidity generally high throughout the period**: Relative humidity consistently remained above 70% throughout the period, potentially influencing pollutant dispersion.
- 30/12/2025, 23:59 **PM_1 values below $PM_{2.5}$ suggests local sources**: PM_1 values are consistently lower than $PM_{2.5}$ values, indicating that the larger particles are primarily generated from local sources.
- 30/12/2025, 23:59 **CO levels spike during poor air quality days**: Carbon monoxide (CO) levels tend to be higher on days with 'Poor' to 'Extremely Poor' EAQI values.
- 30/12/2025, 23:59 **Pressure fluctuations and air quality correlation**: There's a slight inverse correlation between air pressure and EAQI; lower pressure may coincide with poorer air quality.
- 30/12/2025, 23:59 **Wind direction variability with poor air quality**: Wind direction is highly variable on days with 'Poor' to 'Extremely Poor' air quality, indicating pollutants source from various locations.
- 13/12/2025, 23:59 **December 13th shows moderate air quality improvements**: December 13th recorded an EAQI in the 'Moderate' range at 124, relatively better than the 'Poor' or worse levels seen before and after.
- 30/12/2025, 23:59 **Elevated PM_{100} values during pollution spikes**: PM_{100} levels spike significantly during periods of high PM_{10} and $PM_{2.5}$ concentrations, exacerbating air quality issues.
- 30/12/2025, 23:59 **NO_2 levels relatively stable despite EAQI variation**: NO_2 concentrations do not fluctuate dramatically even when the overall EAQI varies considerably, hinting other contributing factors.
- 30/12/2025, 23:59 **Temperature below 6°C associated with poor AQI**: Most readings when temperature is below 6°C show 'Poor', 'Very Poor' or 'Extremely Poor' conditions based on EAQI.
- 30/12/2025, 23:59 **$PM_{2.5}$ drives EAQI to poor and very poor levels**: High $PM_{2.5}$ concentrations are the primary driver pushing the EAQI into the 'Poor' and 'Very Poor' categories. The levels exceeds 25 µg/m³ threshold.
- 30/12/2025, 23:59 **Impact of low wind speed on pollutant dispersion**: Low wind speeds, generally below 2 m/s, appear to hinder pollutant dispersion, contributing to localized air quality degradation.
- 05/12/2025, 23:59 **Good wind speeds on Dec 5th**: Higher wind speeds on December 5th (5.11 m/s) correlate with relatively better air quality ('Moderate' EAQI).
- 30/12/2025, 23:59 **High PM1 correlated with poor air quality**: Increased PM1 correlates with poor air quality days. PM1 is a subset of PM2.5 and can be inhaled deeply into the lungs.
- 30/12/2025, 23:59 **Limited impact of ozone on overall air quality**: Ozone concentrations are consistently low and doesn't contribute significantly to the overall air quality, based on EAQI.
- 30/12/2025, 23:59 **SO2 Levels Remain Low During Poor Air Quality**: Sulfur dioxide levels are consistently low even during periods of high particulate matter concentration.
- 30/12/2025, 23:59 **Higher Humidity Possibly Affects PM Dispersion**: High relative humidity values may prevent PM from dispersing, causing PM concentrations to increase, leading to worse air quality.
- 30/12/2025, 23:59 **Elevated PM100 linked to Extreme AQI**: Extreme AQI values are associated with very high PM100 values, with PM100 exceeding 500 µg/m3 on multiple days.

- 25/12/2025, 23:59 **Moderate temperature improvements and fair AQI**: Moderate temperature improvements likely contribute to a 'Fair' AQI reading, suggesting better dispersion of pollutants.
- 30/12/2025, 23:59 **EAQI shows a recurring cyclical trend**: There's a recurrent cyclical trend in EAQI. Extremely poor air quality occurs multiple days then air quality improves for a small amount of time.
- 30/12/2025, 23:59 **Fair PM2.5 day on Dec 30th**: December 30th recorded PM2.5 concentration is at 18.29 µg/m³ falling within the 'Fair' zone.

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	310	16.2	2.05	2.39	52.55	101.49
02/12/2025, 23:59	436	16.15	0	3.09	167.86	527.63
03/12/2025, 23:59	297	19.14	0	2.55	48.97	98.71
04/12/2025, 23:59	260	19.08	0	2.39	35.76	79.92
05/12/2025, 23:59	184	18.95	5.34	1.43	21.23	48.42
06/12/2025, 23:59	277	19.27	0	3.09	41.46	88.68
07/12/2025, 23:59	285	15.54	0	3.51	44.61	92.3
08/12/2025, 23:59	403	15.61	0	3.05	72.81	184.53
09/12/2025, 23:59	420	16.27	1.54	2.81	113.74	354.77
10/12/2025, 23:59	404	19.33	0	2.41	69.09	187.7
11/12/2025, 23:59	413	16.05	0.41	3.05	101.6	291.22
12/12/2025, 23:59	209	15.02	1.89	2.96	25.2	54.74
13/12/2025, 23:59	124	12.57	7.22	2.6	21.06	42.41
14/12/2025, 23:59	246	12.92	8.28	2.56	33.03	72.99
15/12/2025, 23:59	309	12.15	9.69	2.03	35.2	104.33
16/12/2025, 23:59	419	17.66	1.02	2.73	104.36	345.89
17/12/2025, 23:59	377	19.71	0	2.12	57.26	138.27
18/12/2025, 23:59	366	22.78	0	1.79	64.09	132.92
19/12/2025, 23:59	320	21.65	0	2.71	49.75	110.11
20/12/2025, 23:59	312	18.71	0	2.72	49.01	106.16
21/12/2025, 23:59	408	15.51	2.01	3.09	100.43	233.64
22/12/2025, 23:59	262	13.8	6.72	2.34	35.68	81.18
23/12/2025, 23:59	301	15.08	5.05	2.46	45.88	100.41
24/12/2025, 23:59	219	15.57	2.41	2.78	29.82	59.07
25/12/2025, 23:59	60	12.1	8.25	2.17	11.28	23.81
26/12/2025, 23:59	137	13.03	7.58	2.13	21.42	43.71
27/12/2025, 23:59	271	12.72	6.45	2.83	42.59	85.41
28/12/2025, 23:59	206	13.09	9.23	1.69	24.55	53.07
29/12/2025, 23:59	201	13.96	11.2	1.46	20.83	50.74
30/12/2025, 23:59	129	12.21	11.87	1.63	18.29	42.91

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	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.34	150.07	100	496.95	83.18	46.6	121.61	1012.02	6.58
02/12/2025, 23:59	1.92	102.99	100	473.77	86.56	61.59	991.81	1013.04	5.49
03/12/2025, 23:59	2.55	120.44	100	719.1	87.09	45.12	124.14	1010.16	5.64
04/12/2025, 23:59	2.52	109.05	100	460.59	81.91	31.57	112.66	1005.75	9.05
05/12/2025, 23:59	5.11	126.69	100	342.43	72.36	19.17	66.82	1001.62	12.6
06/12/2025, 23:59	1.31	341.82	100	502.02	81.64	38.4	117.96	1006.54	9.09
07/12/2025, 23:59	1.46	340.09	100	297.98	85.97	39.04	113.03	1008.85	8.92
08/12/2025, 23:59	1.47	333.51	100	505.44	84.03	49.26	334.2	1014.44	8.61
09/12/2025, 23:59	2.1	149.1	100	407.62	88.42	52.36	699.06	1016.62	6.11
10/12/2025, 23:59	1.3	177	100	593.6	83.41	48.02	364.33	1013.91	7.05
11/12/2025, 23:59	1.17	287.43	100	386.03	87.48	42.97	509.08	1016.39	5.72
12/12/2025, 23:59	0.37	301.47	100	362.73	84.79	22.39	69.5	1018.04	5.92
13/12/2025, 23:59	0.58	150.28	100	316.28	83.52	18.14	51.35	1021.56	5.09
14/12/2025, 23:59	0.19	193.04	100	287.61	83.02	26.76	95.84	1021.9	4.52
15/12/2025, 23:59	1.78	113.12	100	322.31	82.67	23.59	222.12	1020.7	4.23
16/12/2025, 23:59	1.85	79.26	100	478.03	85.56	46.94	781.26	1017.42	1.91
17/12/2025, 23:59	2.46	148.96	100	743.97	82.28	46.58	244.23	1016.87	3.63
18/12/2025, 23:59	1.68	161.27	100	825.94	78.74	58.7	169.3	1020.75	7.61
19/12/2025, 23:59	1.48	118.26	100	621.53	82.37	46.36	143.7	1018.61	8.93
20/12/2025, 23:59	0.49	67.78	100	506.7	81.53	44.95	139.5	1013.2	8.16
21/12/2025, 23:59	0.44	55.27	100	379.79	87.24	52.51	317.78	1012.3	6.76
22/12/2025, 23:59	1.91	99.22	100	339.63	84.43	30.04	104.96	1012.46	6.02
23/12/2025, 23:59	2.08	91.64	100	442.17	84.91	35.97	129.22	1010.21	4.11
24/12/2025, 23:59	1.93	63.14	100	405.43	86	27	73.73	1010.64	4.31
25/12/2025, 23:59	1	355.25	100	289.14	81.83	10.15	34.01	1020.11	5.42
26/12/2025, 23:59	2.58	297.74	100	304.97	80.34	18.85	57.91	1021.52	4.04
27/12/2025, 23:59	1.98	282.34	100	443.24	83.26	37.5	106.05	1018.36	2.67
28/12/2025, 23:59	4.51	301.36	100	344.1	79.39	20.71	71.8	1011.35	2.57
29/12/2025, 23:59	2.74	238.07	100	362.55	77.69	18.21	73.61	1010.22	1.14
30/12/2025, 23:59	4.31	298.77	100	316.02	78.13	15.59	61.36	1006.54	0.1