Primaria Beba Veche

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Beba Veche**
Locația dispozitivului: **DJ682 292, Beba Veche 307035, 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): **371**

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

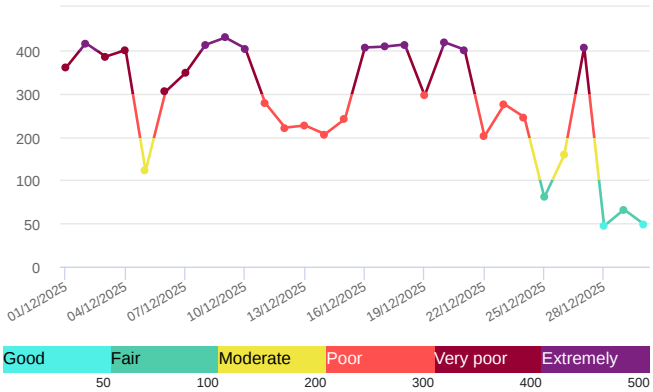
	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	371	19.23	30.73	1.61	57.43	135.61
Maximum	429	23.42	48.54	4.62	151.31	452.06
Date	09/12/2025	03/12/2025	30/12/2025	06/12/2025	09/12/2025	09/12/2025
Minimum	47	12.42	14.17	0	8.04	16.36
Date	28/12/2025	28/12/2025	07/12/2025	17/12/2025	30/12/2025	30/12/2025

Prezentare generală zilnică: Alți parametri

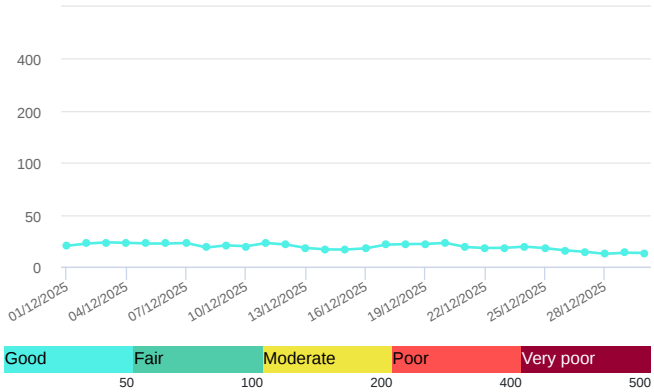
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Pressure HPa	Temperature °C
Average	0.37	106.02	100	425.04	86.25	39.25	199.43	1014.41	5.13
Maximum	5.42	308.53	100	669.39	91.72	80.49	733.78	1022.04	9.55
Date	28/12/2025	28/12/2025	01/12/2025	18/12/2025	03/12/2025	20/12/2025	09/12/2025	14/12/2025	19/12/2025
Minimum	0.51	305.58	99.98	330.59	65.63	6.96	21.47	1002.59	0.21
Date	12/12/2025	12/12/2025	30/12/2025	28/12/2025	30/12/2025	30/12/2025	30/12/2025	05/12/2025	27/12/2025

Weekly Average

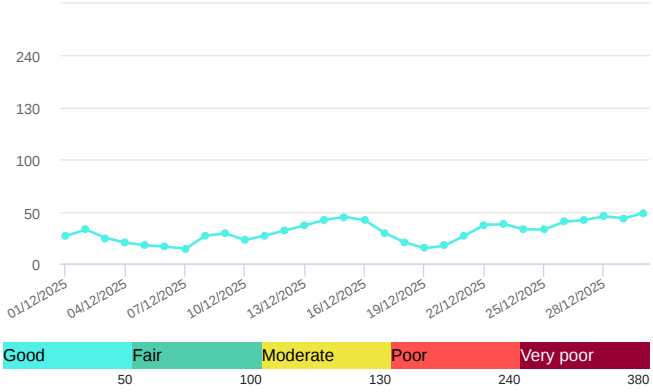
EAQI (AQI)



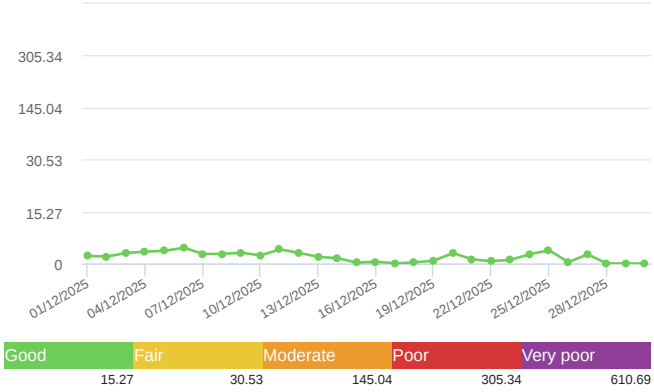
NO_2 (µg/m³)



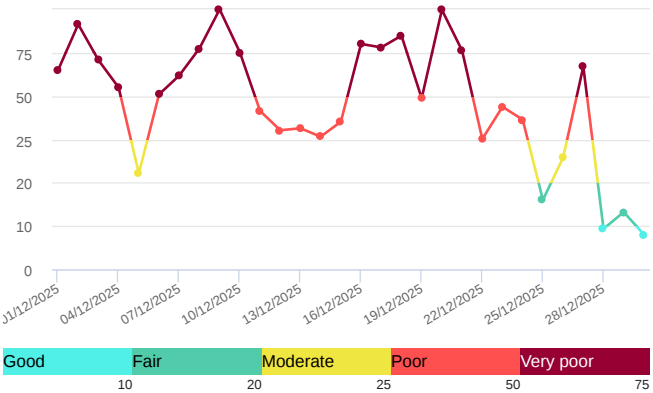
O_3 (µg/m³)



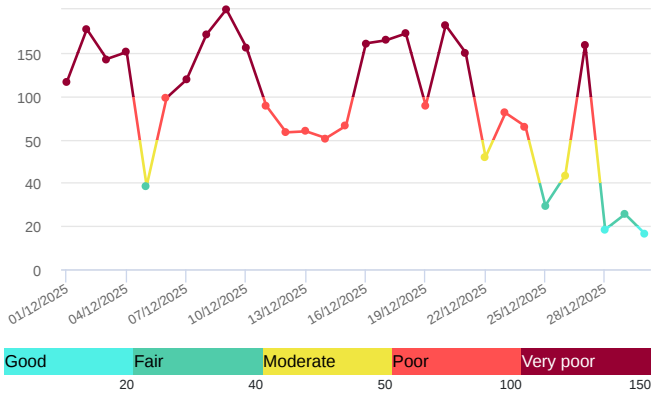
SO_2 (ppb)



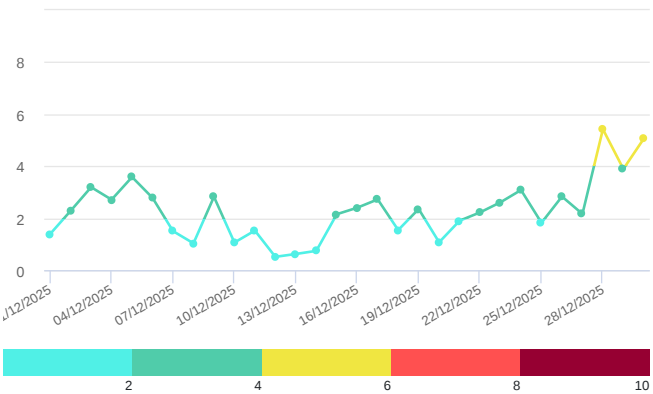
$PM_{2.5}$ (µg/m³)



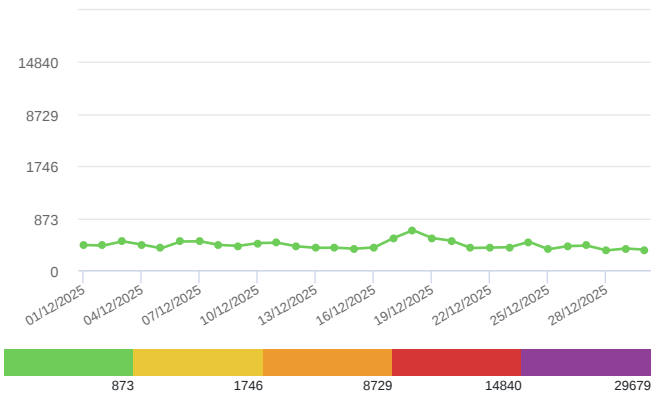
PM_{10} (µg/m³)



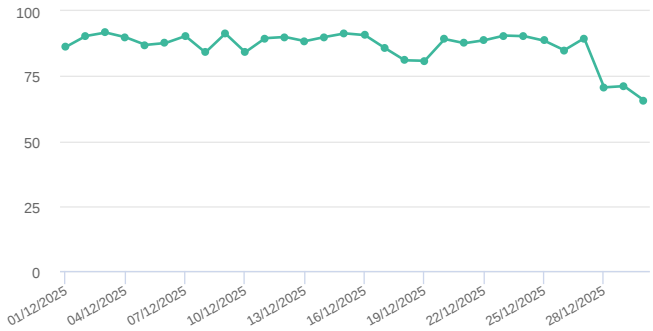
Wind Speed (m/s)



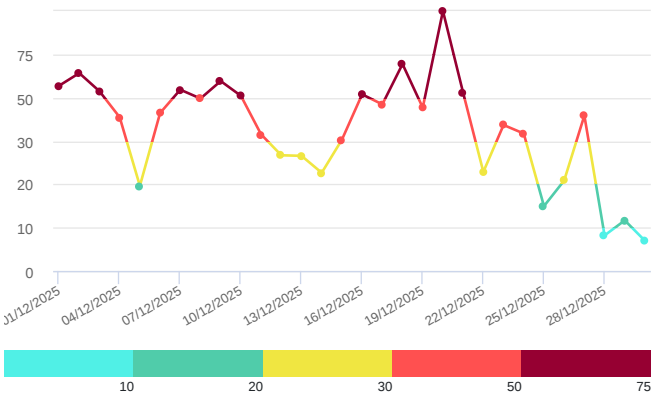
CO (ppb)



R. Humidity (%)

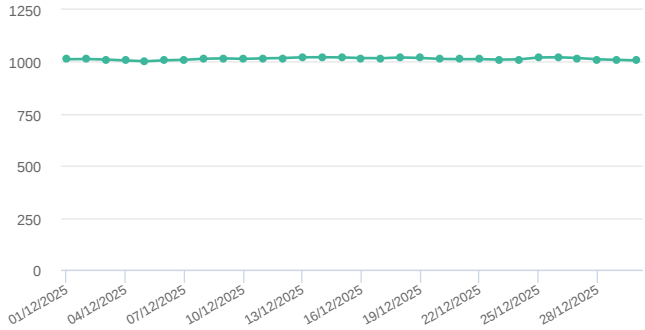


PM₁ (µg/m³)

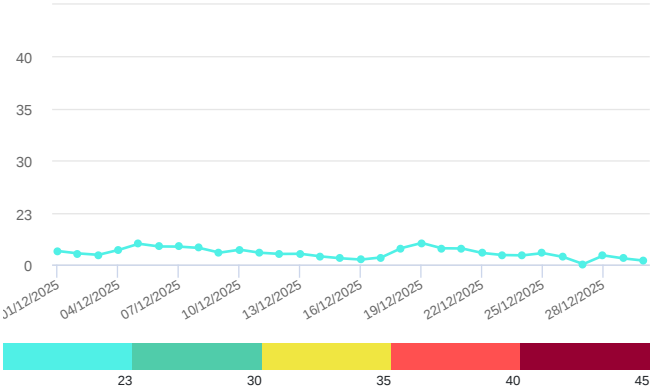


PM₁₀₀ (µg/m³)

Pressure (HPa)

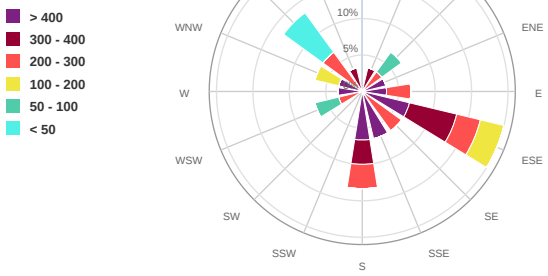


Temperature (°C)

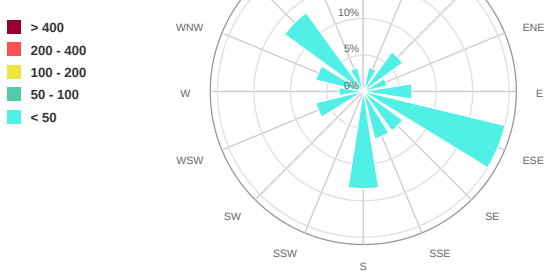


Weekly Average

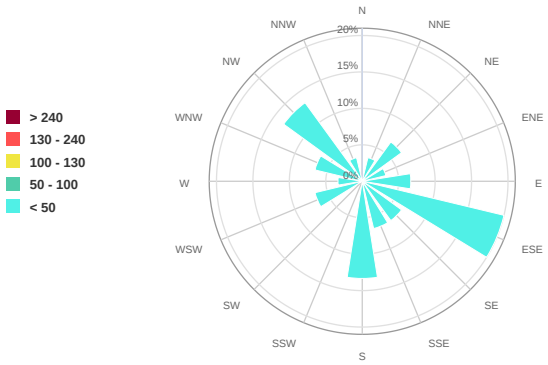
EAQI (AQI)



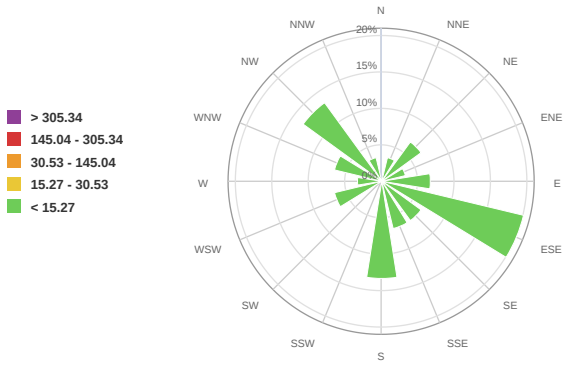
NO_2 (µg/m³)



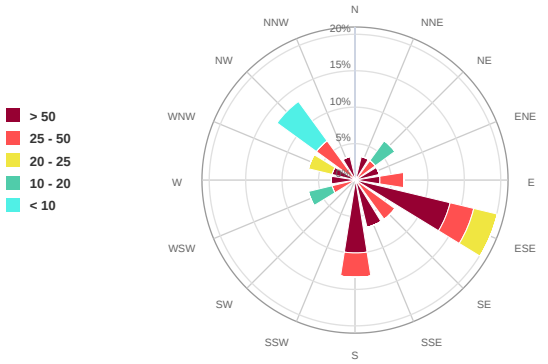
O_3 (µg/m³)



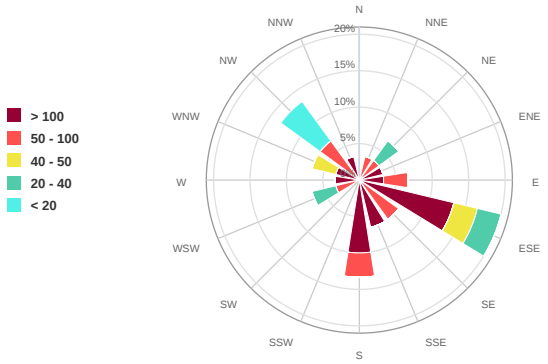
SO_2 (ppb)



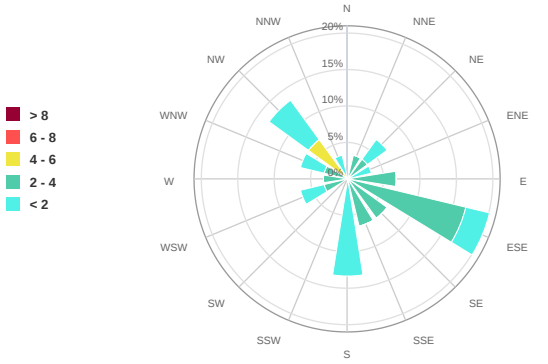
$PM_{2.5}$ (µg/m³)



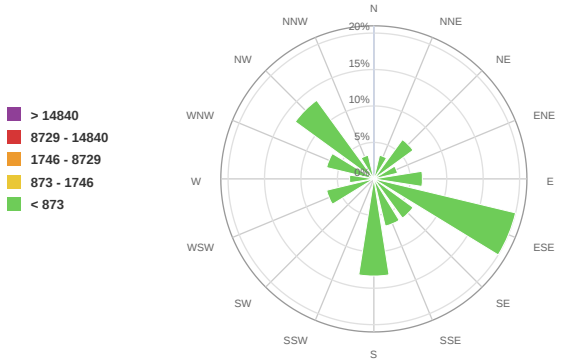
PM_{10} (µg/m³)



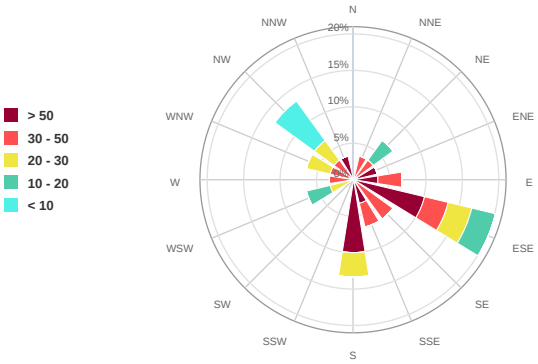
Wind Speed (m/s)



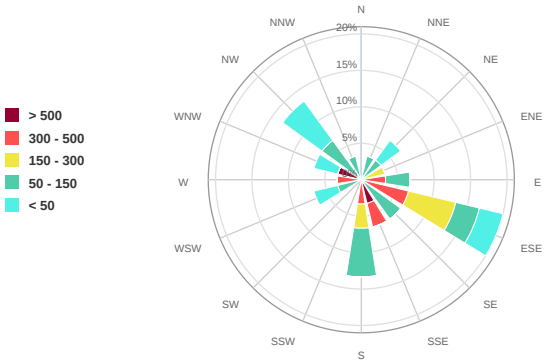
CO (ppb)



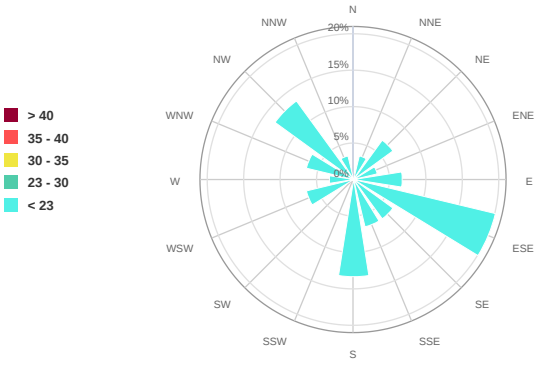
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **Predominantly Poor to Extremely Poor Air Quality Observed**: The EAQI frequently falls in the 'Poor' to 'Extremely poor' range, indicating significant air pollution. The EAQI exceeds 200 on most days, reaching over 400 on multiple occasions.
- 30/12/2025, 23:59 **High $PM_{2.5}$ Concentrations Correlate with Poor EAQI**: Days with 'Very Poor' to 'Extremely Poor' EAQI show $PM_{2.5}$ concentrations exceeding 50 µg/m³, frequently going above 75 µg/m³. These values fall into 'Very poor' to 'Extremely poor' zones.
- 30/12/2025, 23:59 **Elevated PM_{10} Levels Exacerbate Air Quality Issues**: PM_{10} concentrations often reach 'Very poor' to 'Extremely poor' levels (above 100 µg/m³), particularly when overall EAQI is 'Extremely poor'. This contributes significantly to poor air quality.
- 30/12/2025, 23:59 **NO_2 Levels Consistently within Good to Fair Range**: Despite the high EAQI values, NO_2 concentrations remain relatively low. Most values fall within the 'Good' to 'Fair' range, typically below 48 µg/m³.
- 30/12/2025, 23:59 **O_3 Levels Fluctuate, but Primarily within Fair to Moderate**: O_3 concentrations generally range from 'Fair' to 'Moderate'. However, values occasionally rise to 'Poor', yet this fluctuation is not the dominant factor in overall EAQI.
- 30/12/2025, 23:59 **SO_2 Levels Consistently Low**: SO_2 concentrations are consistently low, remaining within the 'Good' range (below 38.17 ppb) throughout the entire period, indicating minimal contribution from SO_2 to the overall EAQI.
- 30/12/2025, 23:59 **Correlation between CO and EAQI**: Higher CO levels tend to coincide with 'Very Poor' to 'Extremely Poor' EAQI values. The higher levels of CO appear to worsen the EAQI.
- 30/12/2025, 23:59 **Humidity Remains High During Pollution Episodes**: R. Humidity levels are consistently high (above 80%) across all reported days, with many days above 90%. It can be considered as factor that contributes towards the pollution.
- 30/12/2025, 23:59 **Temperature Fluctuations are Minimal**: The reported temperatures fluctuate slightly, remaining generally between 0°C and 10°C. These fluctuations do not have any relevant relationship with the EAQI levels.
- 30/12/2025, 23:59 **Wind Speed Variations Show Limited Correlation**: Wind speeds vary throughout the period, ranging from 0.51 m/s to 5.42 m/s. It doesn't show any strong correlation with the pollution level, specifically $PM_{2.5}$ and PM_{10} levels
- 02/12/2025, 23:59 **December 2nd Shows Extremely High PM_{10} Concentration**: On 2025-12-02, PM_{10} reaches 313.96 µg/m³, an 'Extremely Poor' level and is significantly higher than other days. The EAQI is also recorded at 416.
- 20/12/2025, 23:59 **December 20th Shows Extremely High $PM_{2.5}$ Concentration**: On 2025-12-20, $PM_{2.5}$ reaches 150.44 µg/m³, an 'Extremely Poor' level and is significantly higher than other days. The EAQI is also recorded at 418.
- 30/12/2025, 23:59 **Late December Shows Some Improvement in Air Quality**: Air quality improves towards the end of December. The EAQI is in 'Fair' to 'Moderate' range between 2025-12-25 and 2025-12-30, with lower PM levels.
- 30/12/2025, 23:59 **Pressure Changes Show No Direct Link to Air Quality**: Atmospheric pressure ranges from 1002.59 HPa to 1022.04 HPa. There's no immediate visual correlation to air quality, requiring detailed statistical examination.
- 30/12/2025, 23:59 **PM_1 Variation Relative to $PM_{2.5}$**: PM_1 level follows same trend as $PM_{2.5}$ but remains significantly lower in magnitude. The lower size range indicates potential source similarities but varied distribution.
- 30/12/2025, 23:59 **PM_{100} High Correlation with PM_{10}**: PM_{100} is consistently higher than PM_{10}, suggesting a substantial presence of coarse particulate matter. This indicates sources contributing to larger particles.
- 14/12/2025, 23:59 **Pressure Peak 2025-12-14 doesn't correlate with better AQI**: 2025-12-14 has the maximum pressure of 1022.04 HPa, but the EAQI is 206 (Poor) and $PM_{2.5}$ levels are at 26.53 µg/m³ (Poor), indicating an inverse relationship.
- 30/12/2025, 23:59 **Battery life doesn't seem to be a problem**: The battery percentage remains consistently at 100% (except for the last day), therefore battery issues are not influencing data reliability.
- 08/12/2025, 23:59 **December 8th Shows Extremely High PM_{100} Concentration**: On 2025-12-08, PM_{100} reaches 543.83 µg/m³, an 'Extremely Poor' level and is significantly higher than other days. The EAQI is also recorded at 412.
- 30/12/2025, 23:59 **Wind direction variations**: Wind direction varies, there is no correlation between wind direction variations and the pollution level.
- 27/12/2025, 23:59 **December 27th Shows Low Temperature**: The temperature hits a low of 0.21°C. EAQI is extremely poor and PM2.5 is also very poor.
- 30/12/2025, 23:59 **O3 levels highest during fair AQI**: Highest O3 levels are recorded during 2025-12-28 to 2025-12-30 when fair EAQI is recorded.
- 05/12/2025, 23:59 **December 5th shows best AQI**: December 5th has the best AQI. But the temperature is above 9°C.
- 30/12/2025, 23:59 **High Pressure around Fair AQI**: The AQI tends to be fair when there is High Pressure, between 2025-12-25 to 2025-12-30
- 30/12/2025, 23:59 **Good NO2 levels**: The NO2 levels tend to be good for most of the period analyzed.
- 20/12/2025, 23:59 **Worsening air quality around December 20th**: The worst air quality recorded seems to around December 20th.
- 30/12/2025, 23:59 **Low SO2 Levels**: The SO2 levels tend to be very low for most of the period analyzed.
- 30/12/2025, 23:59 **High EAQI and High CO**: The high EAQI corresponds to High CO values for most of the period analyzed.
- 30/12/2025, 23:59 **High EAQI and High R. Humidity**: The high EAQI corresponds to High R. Humidity for most of the period analyzed.
- 30/12/2025, 23:59 **PM1 level is higher than PM2.5**: PM1 level is higher than PM2.5. This would not happen in practice.

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	359	20.17	26.45	2.21	64.85	116.39
02/12/2025, 23:59	416	22.24	32.62	2.04	124.97	313.96
03/12/2025, 23:59	385	23.42	24.71	3.09	70.72	142.72
04/12/2025, 23:59	400	22.99	19.97	3.48	54.93	154.21
05/12/2025, 23:59	121	22.32	17.49	3.73	21.07	38.48
06/12/2025, 23:59	304	22.25	16.31	4.62	50.92	97.92
07/12/2025, 23:59	347	22.78	14.17	2.79	61.83	118.78
08/12/2025, 23:59	412	18.46	26.72	2.84	82.59	276.22
09/12/2025, 23:59	429	20.56	28.88	3.14	151.31	452.06
10/12/2025, 23:59	404	19.67	22.6	2.38	75.78	187.98
11/12/2025, 23:59	278	22.78	26.88	4.15	41.41	88.77
12/12/2025, 23:59	221	21.31	31.8	3.1	30.23	58.04
13/12/2025, 23:59	226	18.03	36.75	1.94	31.41	59.25
14/12/2025, 23:59	206	16.62	42.09	1.55	26.53	51.38
15/12/2025, 23:59	241	16.52	44.91	0.25	35.19	65.64
16/12/2025, 23:59	406	17.72	41.5	0.55	90.43	214.98
17/12/2025, 23:59	408	21.2	29.28	0	84.28	236.2
18/12/2025, 23:59	413	21.76	20.33	0.34	104.96	283.68
19/12/2025, 23:59	295	21.89	14.69	0.83	48.7	88.9
20/12/2025, 23:59	418	22.91	17.15	3.08	150.44	341.1
21/12/2025, 23:59	401	18.89	26.82	1.22	78.65	150.76
22/12/2025, 23:59	201	17.93	37.25	0.66	25.2	45.92
23/12/2025, 23:59	275	18.21	37.76	1.08	43.77	80.49
24/12/2025, 23:59	245	19.31	32.82	2.74	36.33	64.93
25/12/2025, 23:59	80	17.82	32.69	3.88	16.02	29.44
26/12/2025, 23:59	158	15.7	40.13	0.4	22.89	41.73
27/12/2025, 23:59	406	14.32	41.71	2.69	66.97	208.13
28/12/2025, 23:59	47	12.42	45.42	0	9.34	18.36
29/12/2025, 23:59	66	13.38	43.45	0	13.21	25.46
30/12/2025, 23:59	49	13.24	48.54	0	8.04	16.36

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	1.39	173.72	100	421.6	86.19	56.88	126.32	1012.24	5.99
02/12/2025, 23:59	2.28	111.32	100	410.85	90.38	64.17	439.94	1013.5	4.93
03/12/2025, 23:59	3.19	122.47	100	483.66	91.72	53.71	185.69	1010.7	4.31
04/12/2025, 23:59	2.71	109.98	100	427.57	89.9	40.97	290.56	1006.48	6.47
05/12/2025, 23:59	3.58	120.11	100	366.8	86.96	19.64	43.92	1002.59	9.2
06/12/2025, 23:59	2.78	32.12	100	479.78	87.69	42.9	111.52	1007.29	8
07/12/2025, 23:59	1.5	348.63	100	483.73	90.37	54.61	141.04	1009.69	7.94
08/12/2025, 23:59	1.03	290.29	100	421.8	84.06	49.61	543.83	1014.9	7.33
09/12/2025, 23:59	2.82	163.45	100	406.85	91.35	59.58	733.78	1016.39	5.26
10/12/2025, 23:59	1.06	178.04	100	454.17	84.15	51.08	293.36	1014.09	6.55
11/12/2025, 23:59	1.52	308.79	100	460.25	89.55	33.04	118.79	1016.6	5.21
12/12/2025, 23:59	0.51	305.58	100	398.55	90.01	26.7	68.54	1018.21	4.7
13/12/2025, 23:59	0.62	189.38	100	373.67	88.41	26.57	66.44	1021.63	4.76
14/12/2025, 23:59	0.74	246.98	100	376.53	90.02	22.66	61.3	1022.04	3.6
15/12/2025, 23:59	2.15	127.67	100	359.2	91.4	30.61	73.51	1021.1	2.75
16/12/2025, 23:59	2.4	83.82	100	380.78	90.73	51.91	329.88	1018.06	2.21
17/12/2025, 23:59	2.72	148.34	100	537.42	85.77	46.89	427.16	1017.32	3.14
18/12/2025, 23:59	1.54	181.62	100	669.39	81.04	69.41	465.41	1020.85	7.28
19/12/2025, 23:59	2.35	140.1	100	538.2	80.85	45.37	98.26	1018.48	9.55
20/12/2025, 23:59	1.07	110.34	100	493.55	89.22	80.49	427.54	1013.75	7.19
21/12/2025, 23:59	1.9	60.73	100	370.33	87.62	52.81	163.86	1012.66	7.1
22/12/2025, 23:59	2.22	104.2	100	378.13	88.77	22.86	50.46	1012.84	5.14
23/12/2025, 23:59	2.61	95.31	100	384.4	90.56	37.37	87.9	1010.68	4.22
24/12/2025, 23:59	3.08	48.01	100	474.62	90.32	33.44	70.51	1011.63	4.08
25/12/2025, 23:59	1.82	51.96	100	349.09	88.58	14.96	33.98	1020.91	5.05
26/12/2025, 23:59	2.83	299.23	100	402.93	84.93	20.87	46.12	1021.8	3.38
27/12/2025, 23:59	2.16	261.49	100	410.83	89.52	41.72	408.58	1018.23	0.21
28/12/2025, 23:59	5.42	308.53	100	330.59	70.62	8.2	22.92	1011.8	4.02
29/12/2025, 23:59	3.89	257.75	100	362.44	71.11	11.67	30.39	1009.44	2.72
30/12/2025, 23:59	5.06	306.04	99.98	343.37	65.63	6.96	21.47	1006.35	1.72