Primaria Gataia (Sala Sport)

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Gataia (Sala Sport)**
Locația dispozitivului: **Strada Înfrăţirii 110, Gătaia 307185, 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): **267**

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

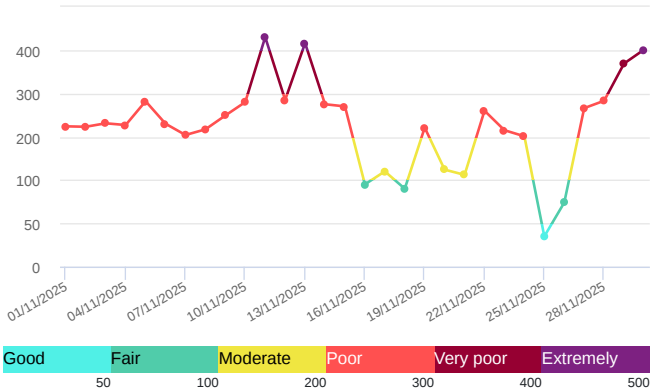
	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	267	44.76	0	4.06	39.31	83.7
Maximum	430	153.6	34.79	13.05	157.45	460.6
Date	11/11/2025	03/11/2025	25/11/2025	03/11/2025	11/11/2025	11/11/2025
Minimum	35	10.33	0	0	4.85	10.02
Date	25/11/2025	25/11/2025	01/11/2025	25/11/2025	25/11/2025	25/11/2025

Prezentare generală zilnică: Alți parametri

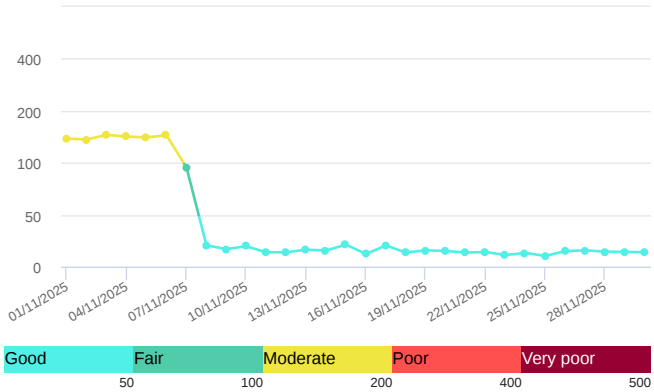
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Pressure HPa	Temperature °C
Average	0.77	189.14	100	429.62	78.06	30.27	103.59	1005.99	9.43
Maximum	7.01	163.21	100	719.43	92.65	61.88	720.32	1015.19	17.77
Date	25/11/2025	25/11/2025	01/11/2025	14/11/2025	30/11/2025	30/11/2025	11/11/2025	05/11/2025	01/11/2025
Minimum	0.47	145.54	100	295.92	59.14	3.92	11.67	994.94	2.02
Date	19/11/2025	19/11/2025	01/11/2025	03/11/2025	17/11/2025	25/11/2025	25/11/2025	25/11/2025	30/11/2025

Weekly Average

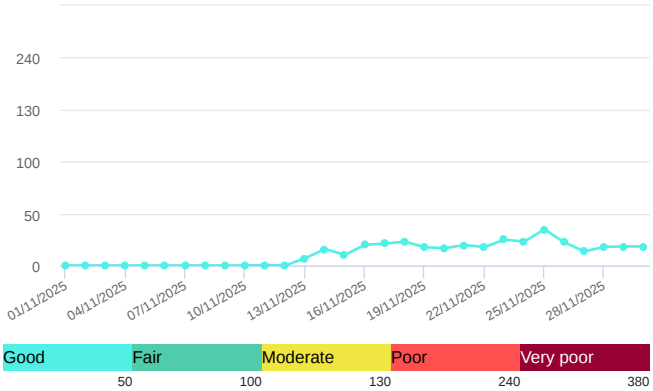
EAQI (AQI)



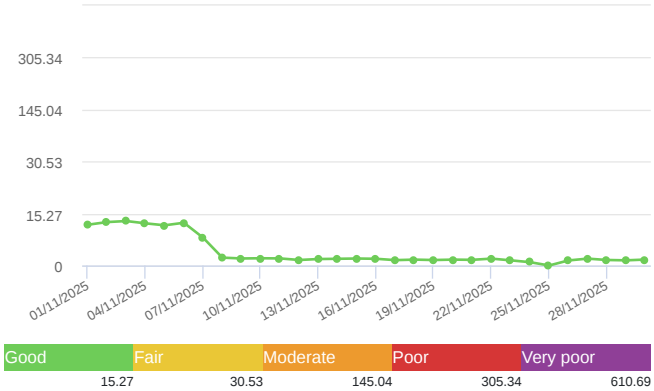
NO_2 (µg/m³)



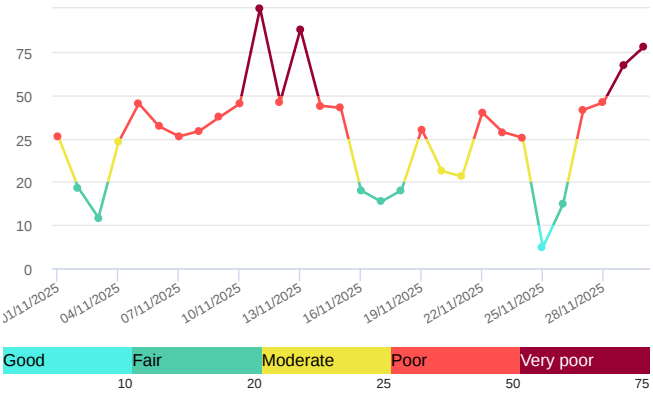
O_3 (µg/m³)



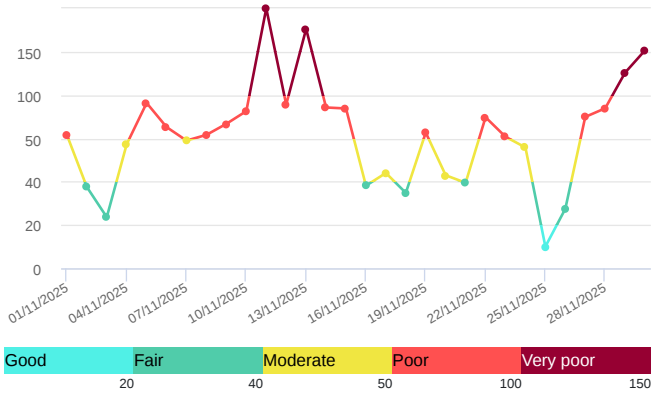
SO_2 (ppb)



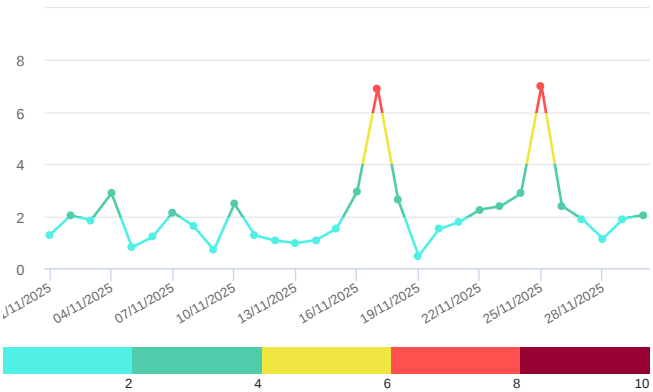
$PM_{2.5}$ (µg/m³)



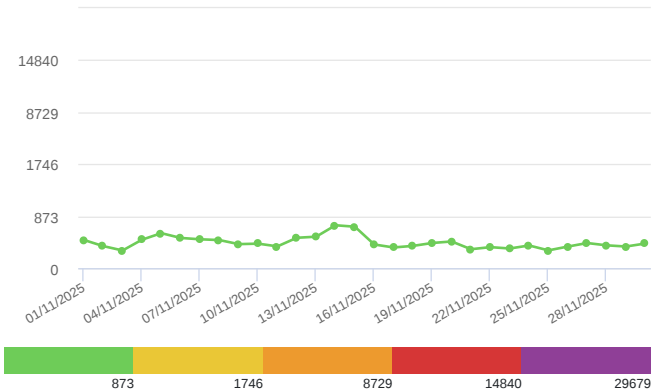
PM_{10} (µg/m³)



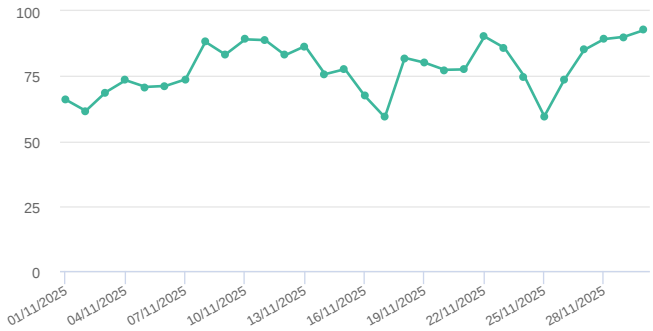
Wind Speed (m/s)



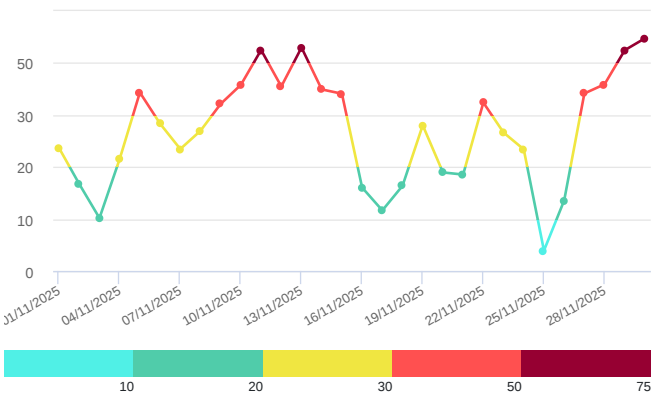
CO (ppb)



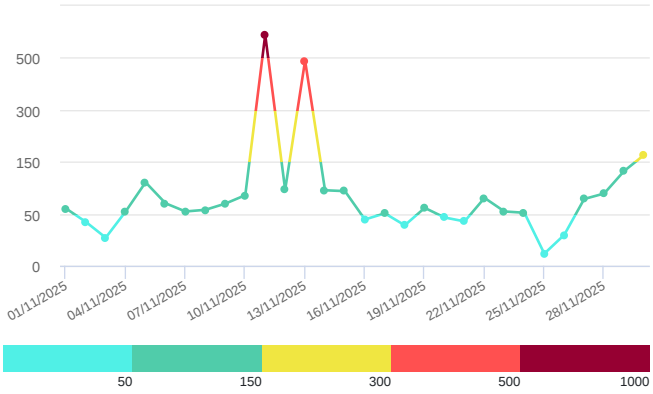
R. Humidity (%)



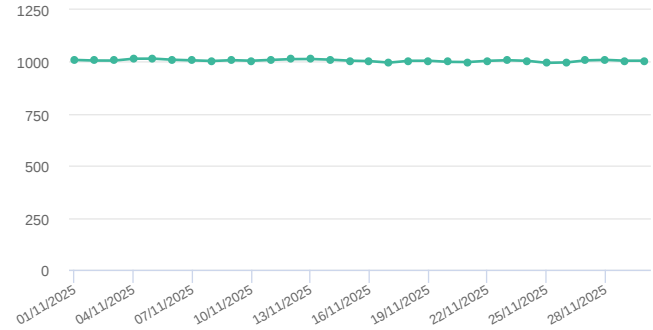
PM₁ (µg/m³)



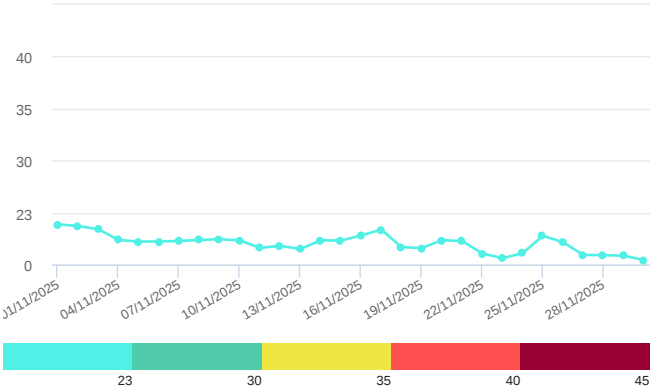
PM₁₀₀ (µg/m³)



Pressure (HPa)

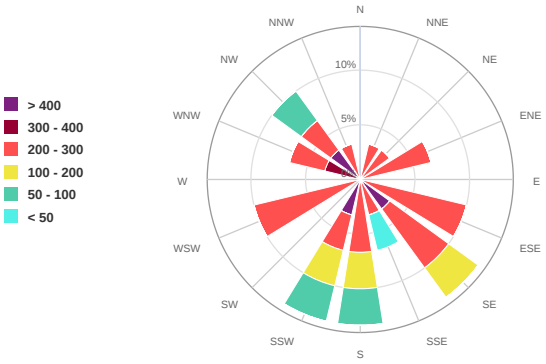


Temperature (°C)

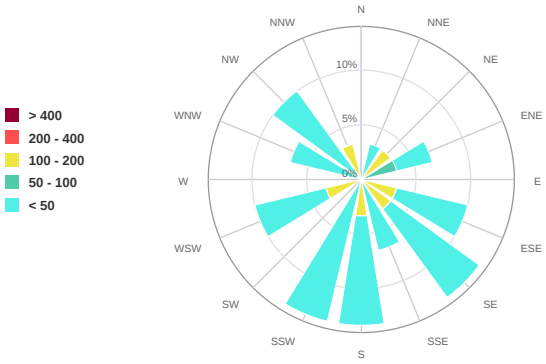


Weekly Average

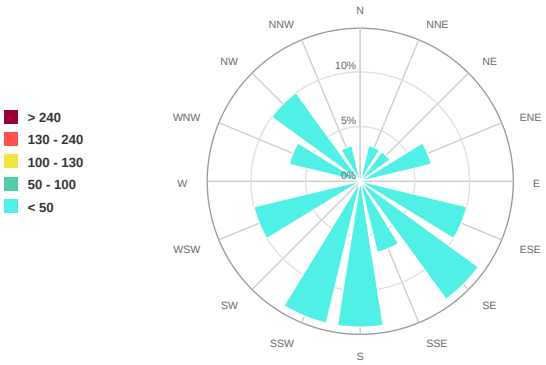
EAQI (AQI)



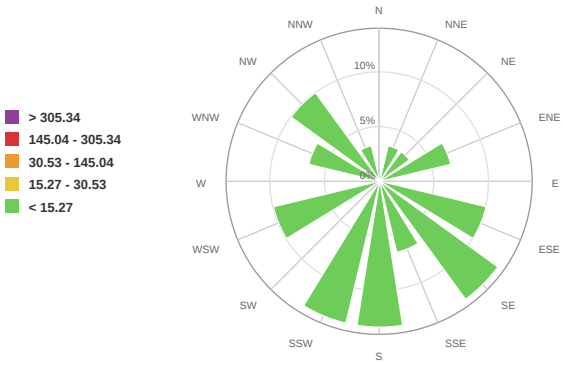
NO_2 (µg/m³)



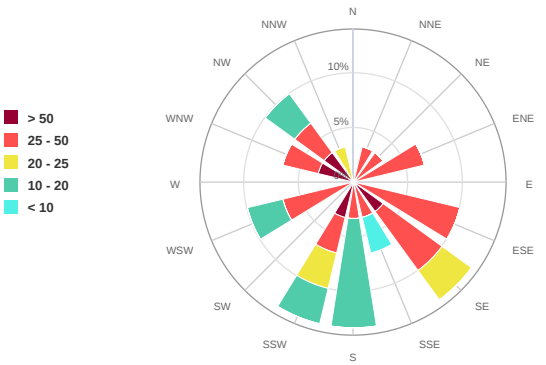
O_3 (µg/m³)



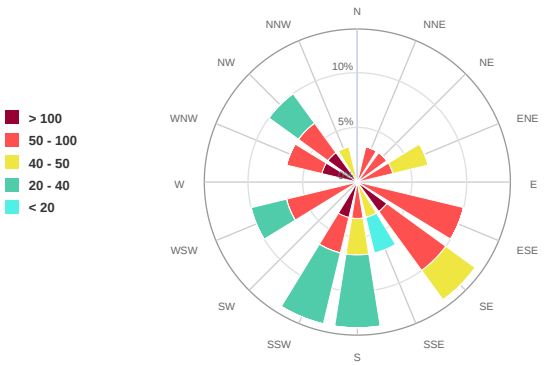
SO_2 (ppb)



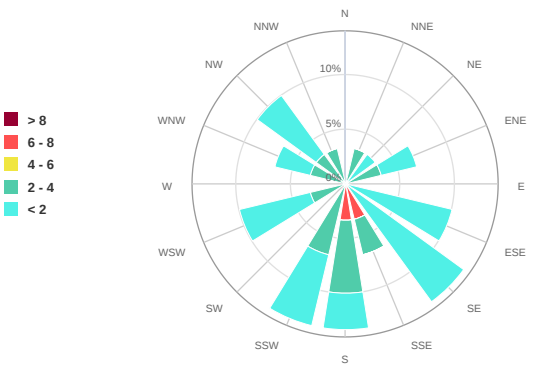
$PM_{2.5}$ (µg/m³)



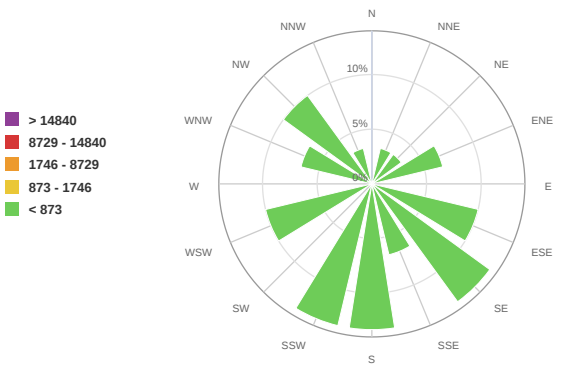
PM_{10} (µg/m³)



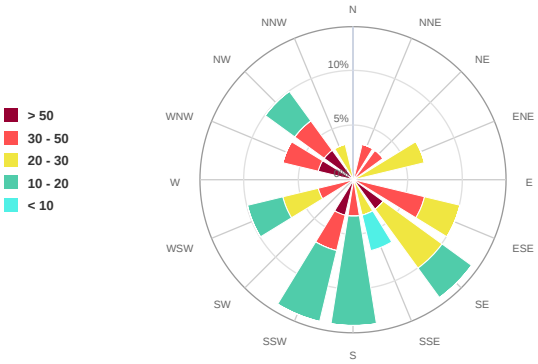
Wind Speed (m/s)



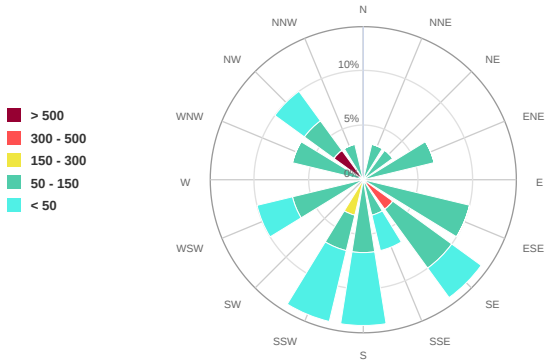
CO (ppb)



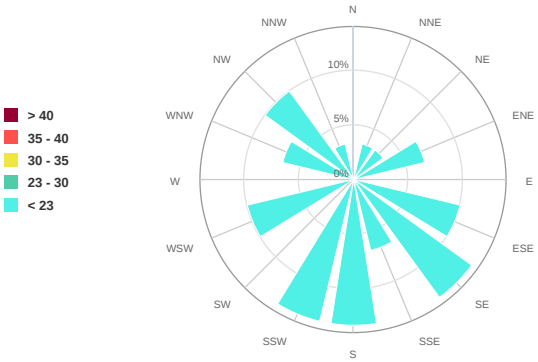
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/11/2025, 23:59 **Dominance of Very Poor and Extremely Poor Air Quality Days**: The dataset indicates a prevalence of 'Very Poor' and 'Extremely Poor' air quality conditions, as indicated by EAQI values exceeding 300 in a significant portion of the recorded days.
- 30/11/2025, 23:59 **Ozone levels consistently within 'Good' zone**: Ozone (O3) levels are consistently low, registering at 0 µg/m³ for many days and seldom exceeding 50 µg/m³, placing it within the 'Good' to 'Fair' air quality range.
- 30/11/2025, 23:59 **NO_2 Fluctuations and Poor Air Quality Correlation**: NO_2 levels fluctuate, exceeding 180 µg/m³ frequently, correlating with periods of 'Very Poor' to 'Extremely Poor' EAQI. Higher levels suggest increased industrial or vehicular emissions.
- 30/11/2025, 23:59 **$PM_{2.5}$ Levels Frequently Exceeding Safe Thresholds**: $PM_{2.5}$ concentrations consistently surpass the 'Good' threshold of 10 µg/m³, often entering 'Poor' and 'Very Poor' ranges, posing potential health risks.
- 30/11/2025, 23:59 **PM_{10} Levels Contributing to Poor Air Quality**: PM_{10} levels frequently exceed the 'Good' range (0-20 µg/m³), often reaching 'Poor' and 'Very Poor' levels, indicating significant particulate pollution.
- 30/11/2025, 23:59 **SO_2 Levels Generally within Acceptable Limits**: Sulfur dioxide (SO_2) concentrations mostly remain low, within the 'Good' range (<38 ppb), suggesting a limited impact from sulfur-related pollution sources.
- 30/11/2025, 23:59 **Humidity's Impact on Perceived Air Quality**: High relative humidity (often >70%) potentially exacerbates the effect of particulate matter on perceived air quality and respiratory health.
- 30/11/2025, 23:59 **Wind Speed Variation and Pollution Dispersion**: Wind speeds vary, influencing the dispersion of pollutants. Lower wind speeds correlate with higher pollutant concentrations and worse air quality.
- 30/11/2025, 23:59 **Temperature Fluctuations Impact Air Quality**: Temperature fluctuations may contribute to changes in air quality, potentially affecting the formation of secondary pollutants. Lower temperatures might trap pollutants.
- 30/11/2025, 23:59 **EAQI Peaks Above 400 Indicating Severe Pollution**: Several instances show EAQI surpassing 400, reaching 'Extremely Poor' levels, demanding immediate attention to reduce pollution sources during these peak periods.
- 30/11/2025, 23:59 **CO Levels Consistently High**: CO (Carbon Monoxide) levels consistently stay above 290 ppb throughout the month which may suggest consistent CO emission sources.
- 30/11/2025, 23:59 **Impact of Pressure on Air Quality**: Atmospheric pressure fluctuates within a narrow range. Lower pressure may correlate with poor dispersion of pollutants, contributing to higher concentrations.
- 16/11/2025, 23:59 **2025-11-16 Air Quality Significantly Improved**: 2025-11-16 shows a significant decrease in EAQI to 95 indicating 'Fair' air quality category in comparison to other days. PM2.5 and PM10 have a massive decrease.
- 11/11/2025, 23:59 **November 11th Has Highest Particle Pollution**: The recorded data shows that on November 11th, 2025, particulate matter, including PM2.5, PM10, PM1, and PM100, spiked dramatically, signifying extremely dangerous air.
- 30/11/2025, 23:59 **Wind Direction and Pollution Sources**: Dominant wind directions between 100 and 200 degrees might indicate specific pollution source locations upwind from the monitoring station.
- 25/11/2025, 23:59 **November 25th Stand Out Performance**: On 2025-11-25, the observed air quality registers at a 'Fair' status, marking the best record within the specified timeframe. This suggests noteworthy differences.
- 30/11/2025, 23:59 **Particulate Matter Size Distribution**: PM1 and PM100 often show correlated increases with PM2.5 and PM10, suggesting shared sources and processes affecting overall particulate pollution levels.
- 25/11/2025, 23:59 **Good Wind Speed Correlates to Fair AQI**: The windspeed of 7.01 m/s on 2025-11-25 may have contributed to pollutant dispersement which resulted in 'Fair' AQI.
- 30/11/2025, 23:59 **Limited Ozone Impact on Air Quality Index**: Consistently low ozone levels suggest that ozone is not a primary driver of the elevated EAQI, pointing to other pollutants like PM and NO_2.
- 30/11/2025, 23:59 **Battery Life Stable**: Sensor battery percentage remains consistently at 100%, indicating a reliable power source and data collection throughout the period.
- 30/11/2025, 23:59 **Inversion Effects Possible**: Low temperatures combined with low wind speeds may indicate temperature inversion conditions, trapping pollutants near the surface and worsening air quality.
- 30/11/2025, 23:59 **Elevated CO Readings**: The Carbon Monoxide readings were elevated for the month which could indicate a problem to public health and needs immediate action.
- 30/11/2025, 23:59 **Highest EAQI observed on 2025-11-30**: The recorded EAQI was observed highest on 2025-11-30, reaching 'Extremely Poor' levels.
- 05/11/2025, 23:59 **Pollution Event on November 5th**: High PM10 value recorded on November 5th, with a reading of 90.81 µg/m³, falling into the 'Poor' air quality zone according to established parameters.
- 30/11/2025, 23:59 **Poor air quality linked with high CO emissions**: There is a correlation between high CO levels and poor EAQI ratings, suggesting CO as a contributing factor or indicator of broader pollution sources.
- 15/11/2025, 23:59 **Temperature Drops Correlate with Worsened AQI**: Significant temperature drops, especially in the first half of November, seem to correlate with increased EAQI values and thus worsened air quality.
- 30/11/2025, 23:59 **Persistent Fine Particulate Matter Problem**: $PM_{2.5}$ consistently remains at problematic levels, often exceeding 25 µg/m³, indicating persistent sources of fine particulate pollution are present.

- 30/11/2025, 23:59 **Industrial activity or traffic at 114 degrees?**: Wind directions often around 114 may mean the pollution is caused by a facility, highway, etc. located at or near 114 degrees.
- 30/11/2025, 23:59 **Need targeted pollution reduction during poor times**: Very poor air quality throughout the month needs immediate improvements to the factors which drive NO_2, $PM_{2.5}$, PM_{10}, PM_1 and PM_{100} increase.
- 30/11/2025, 23:59 **O3 Levels are consistently in good range**: The observed value of O3 is quite low which is a good indication that there are no dangerous health conditions because of it. The value can be further improved.

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
01/11/2025, 23:59	224	146.26	0	11.97	26.5	53.88
02/11/2025, 23:59	223	144.94	0	12.75	18.63	37.53
03/11/2025, 23:59	231	153.6	0	13.05	11.68	23.61
04/11/2025, 23:59	227	150.2	0	12.39	24.58	48.65
05/11/2025, 23:59	282	148.75	0	11.8	45.02	90.81
06/11/2025, 23:59	230	152.67	0	12.55	31.94	62.93
07/11/2025, 23:59	204	95.42	0	8.16	26.1	49.48
08/11/2025, 23:59	217	20.55	0	2.3	29.25	54.01
09/11/2025, 23:59	249	16.9	0	2.06	37.25	66.77
10/11/2025, 23:59	280	19.68	0	2.13	45	81.39
11/11/2025, 23:59	430	13.81	0.58	2.07	157.45	460.6
12/11/2025, 23:59	285	13.83	0	1.62	46.16	88.88
13/11/2025, 23:59	416	16.42	6.93	1.89	117.58	313.49
14/11/2025, 23:59	275	15.53	15.87	1.97	43.8	85.62
15/11/2025, 23:59	270	21.26	10.24	2.05	42.6	84.47
16/11/2025, 23:59	95	12.19	19.93	1.97	17.97	38.12
17/11/2025, 23:59	120	20.39	20.98	1.57	15.39	42
18/11/2025, 23:59	90	13.66	22.99	1.72	18.01	34.82
19/11/2025, 23:59	221	15.76	17.58	1.6	30.27	56.59
20/11/2025, 23:59	124	15.12	16.72	1.72	21.22	41.47
21/11/2025, 23:59	112	13.59	19.63	1.67	20.61	39.48
22/11/2025, 23:59	260	14.03	17.73	2.02	39.88	74.29
23/11/2025, 23:59	215	11.23	24.83	1.51	28.69	51.8
24/11/2025, 23:59	201	13.19	22.93	0.98	25.36	47.89
25/11/2025, 23:59	35	10.33	34.79	0	4.85	10.02
26/11/2025, 23:59	74	15.02	22.33	1.48	14.83	27.44
27/11/2025, 23:59	266	15.77	13.5	2.01	41.43	74.68
28/11/2025, 23:59	283	14.43	17.88	1.62	45.76	84.63
29/11/2025, 23:59	369	14.25	18.36	1.51	67.24	125.87
30/11/2025, 23:59	401	13.92	18.31	1.74	84.29	159.87

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
01/11/2025, 23:59	1.29	129.01	100	472.27	65.87	23.64	60.3	1008.92	17.77
02/11/2025, 23:59	2.02	170.73	100	369.45	61.58	16.72	42.21	1006.14	17.04
03/11/2025, 23:59	1.85	245.58	100	295.92	68.75	10.17	27.02	1005.88	15.59
04/11/2025, 23:59	2.88	336.61	100	476.7	73.38	21.53	54.43	1014.89	10.88
05/11/2025, 23:59	0.8	51.7	100	586.41	70.8	38.66	110.53	1015.19	10.15
06/11/2025, 23:59	1.2	118.17	100	506.55	71.17	28.33	70.13	1009.84	10.22
07/11/2025, 23:59	2.15	65.71	100	483.5	73.69	23.45	54.37	1006.94	10.45
08/11/2025, 23:59	1.62	69.93	100	470.3	88.14	26.96	57.63	1004.03	10.85
09/11/2025, 23:59	0.7	199.76	100	402.51	83.24	34.28	69.49	1007.76	11.19
10/11/2025, 23:59	2.47	12.8	100	410.35	89.1	41.6	85.67	1005.18	10.65
11/11/2025, 23:59	1.26	318.06	100	365.04	88.81	56.26	720.32	1009.18	7.39
12/11/2025, 23:59	1.06	114.17	100	508.74	83.01	40.98	96.19	1012.89	8.29
13/11/2025, 23:59	0.96	136.21	100	526.92	86.49	57.42	489.23	1013.42	6.86
14/11/2025, 23:59	1.08	114.77	100	719.43	75.7	39.84	95.22	1010.36	10.71
15/11/2025, 23:59	1.53	179.21	100	695.13	77.63	38.17	93.45	1005.38	10.59
16/11/2025, 23:59	2.95	180.38	100	396.38	67.29	16.04	44.48	1003.13	12.89
17/11/2025, 23:59	6.92	190.37	100	346.97	59.14	11.64	50.84	996.15	15.45
18/11/2025, 23:59	2.63	323.99	100	373.06	81.97	16.38	38.91	1004.87	7.72
19/11/2025, 23:59	0.47	145.54	100	421.33	80.13	28.02	61.28	1005.08	7.27
20/11/2025, 23:59	1.5	136.69	100	447.4	77.38	18.95	46.4	999.66	10.77
21/11/2025, 23:59	1.78	208.98	100	317.23	77.54	18.54	42.65	998.83	10.4
22/11/2025, 23:59	2.25	297.07	100	352.02	90.19	34.76	80.5	1004.83	4.95
23/11/2025, 23:59	2.38	244.7	100	328.81	85.82	26.62	54.37	1007.55	2.79
24/11/2025, 23:59	2.87	162.49	100	379.32	74.85	23.39	51.94	1004.82	5.07
25/11/2025, 23:59	7.01	163.21	100	298.02	59.51	3.92	11.67	994.94	12.71
26/11/2025, 23:59	2.39	193.44	100	361.42	73.51	13.55	29.72	997.01	9.85
27/11/2025, 23:59	1.88	310.67	100	420.36	85.03	38.29	78.36	1006.91	4.28
28/11/2025, 23:59	1.13	250.01	100	382.14	89.2	41.81	88.9	1009.18	4.13
29/11/2025, 23:59	1.9	291.57	100	362.43	90.07	56.18	132.08	1005.29	3.91
30/11/2025, 23:59	2.05	207.65	100	412.43	92.65	61.88	169.45	1005.34	2.02