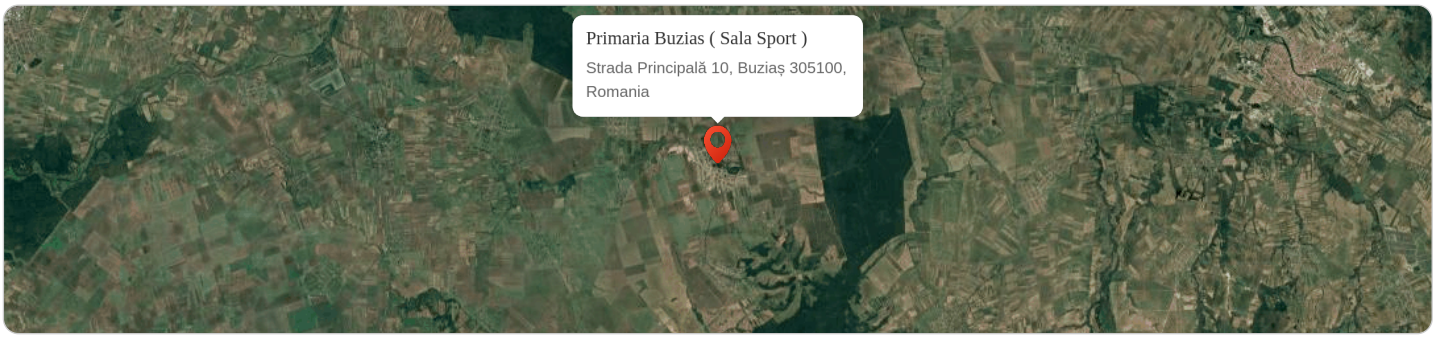
Primaria Buzias (Sala Sport)

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Buzias (Sala Sport)**
Locația dispozitivului: **Strada Principală 10, Buziaş 305100, 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): **273**

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	273	33.73	3.84	5.2	36.15	86.38
Maximum	423	41.06	21.84	6.72	135.24	396.24
Date	09/12/2025	11/12/2025	05/12/2025	11/12/2025	11/12/2025	09/12/2025
Minimum	43	23.6	0	4.07	8.29	17.23
Date	25/12/2025	05/12/2025	02/12/2025	29/12/2025	25/12/2025	25/12/2025

Powered by OIZOM REDEFINING RESOURCES

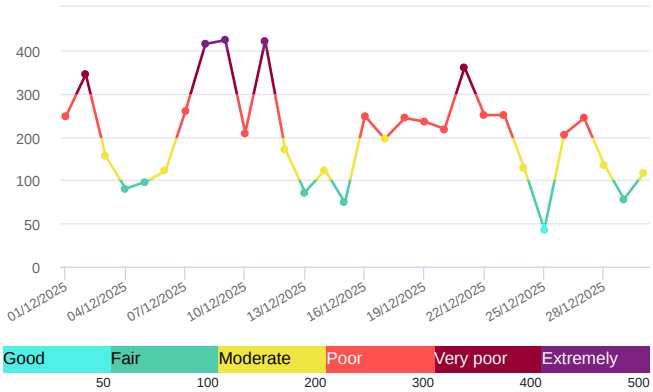
Prezentare generală zilnică: Alți parametri

	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM_1 µg/m³	PM_{100} µg/m³	Pressure HPa	Temperature °C
Average	0.32	86.83	100	366.02	83.43	26.33	133.29	1008.99	5.21
Maximum	4.38	112.33	100	508.44	90.45	59.93	833.81	1016.72	11.89
Date	05/12/2025	05/12/2025	01/12/2025	18/12/2025	11/12/2025	11/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.09	284.96	100	285.36	73.64	7.32	22.25	997.12	-1.14
Date	20/12/2025	20/12/2025	01/12/2025	25/12/2025	05/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

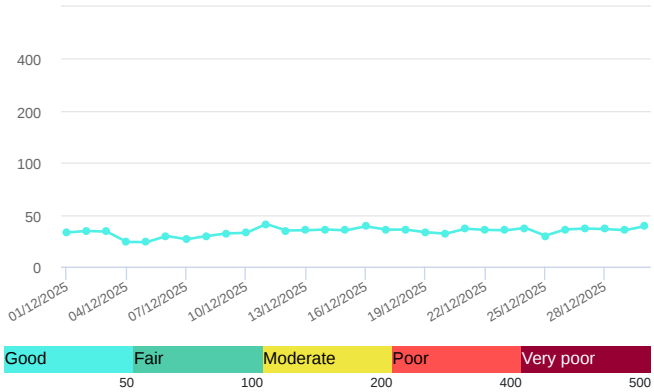
Powered by OIZOM REDEFINING RESOURCES

Weekly Average

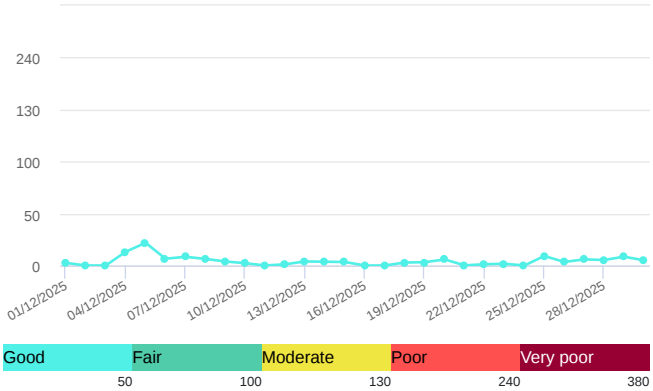
EAQI (AQI)



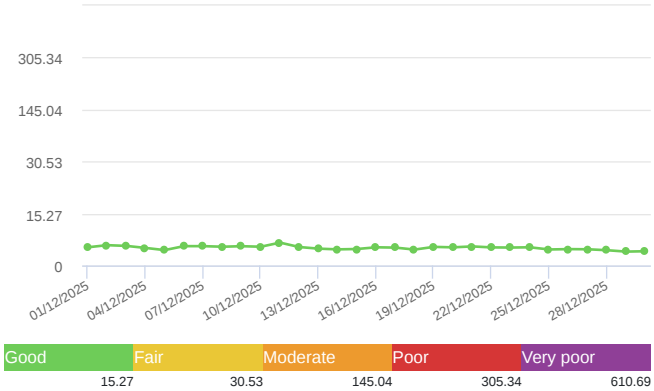
NO_2 (µg/m³)



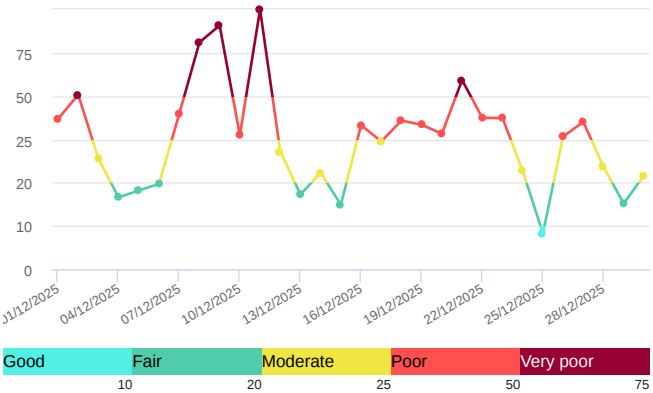
O_3 (µg/m³)



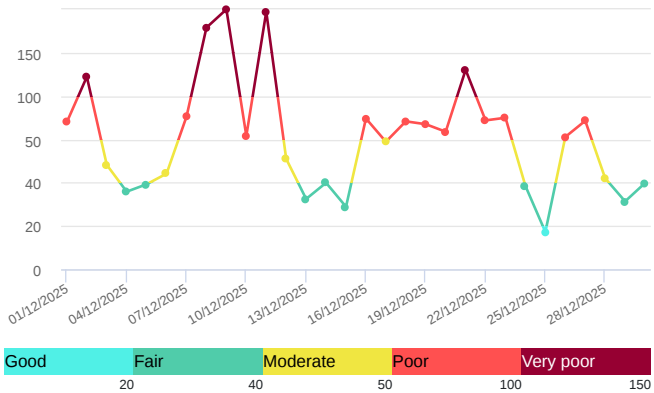
SO_2 (ppb)



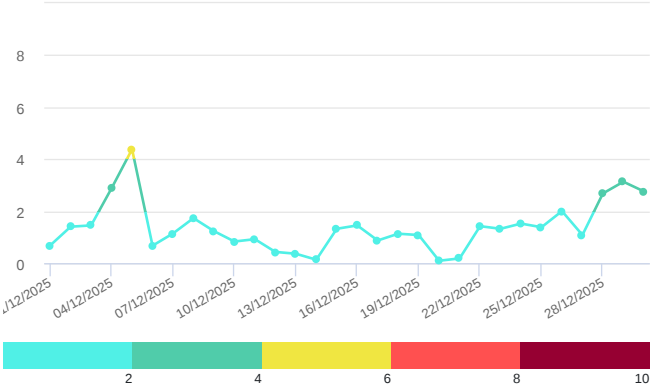
$PM_{2.5}$ (µg/m³)



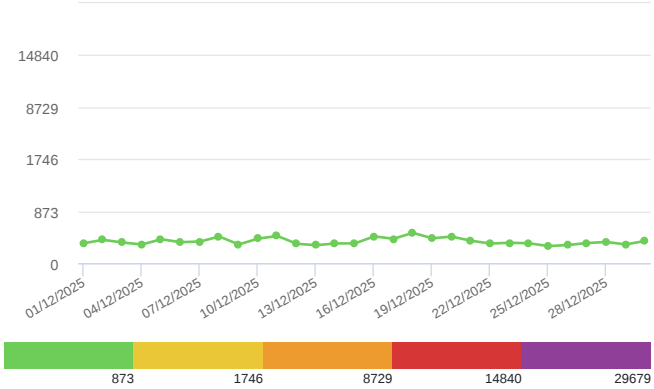
PM_{10} (µg/m³)



Wind Speed (m/s)

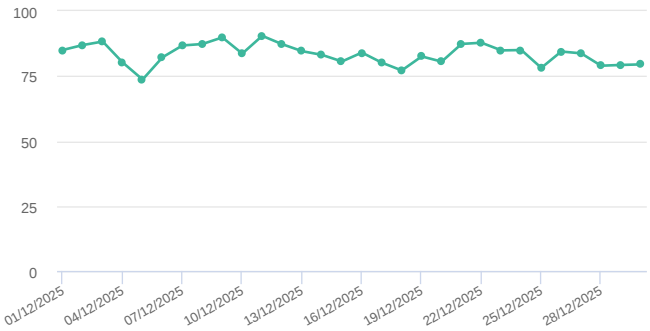


CO (ppb)

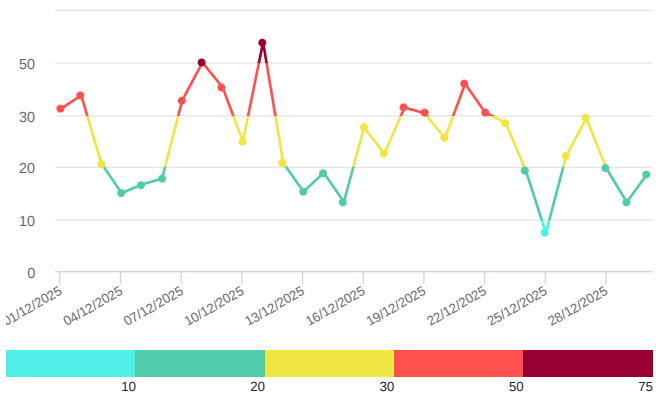


Powered by OIZOM REDEFINING RESOURCES

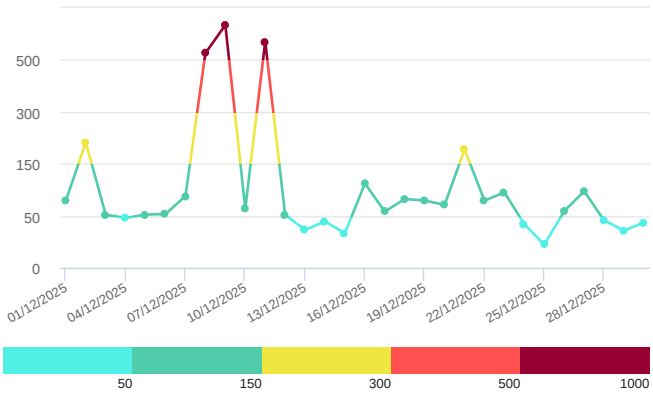
R. Humidity (%)



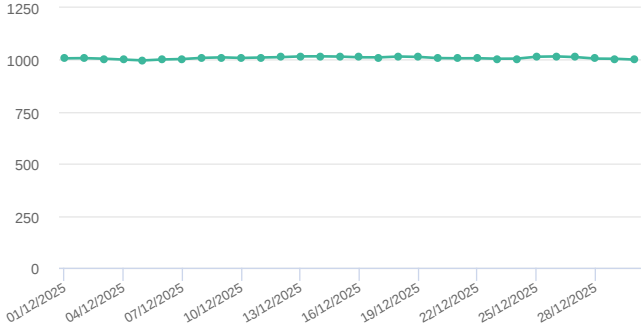
PM1 (µg/m³)



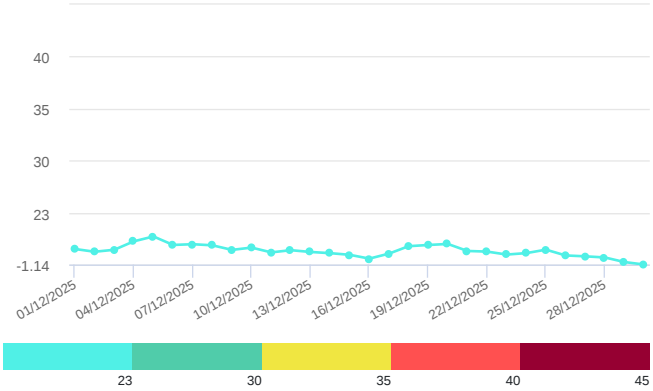
PM100 (µg/m³)



Pressure (HPa)



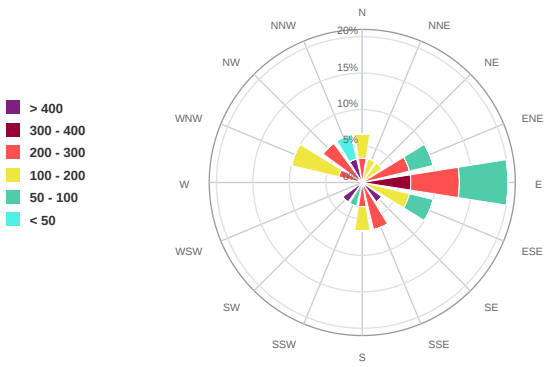
Temperature (°C)



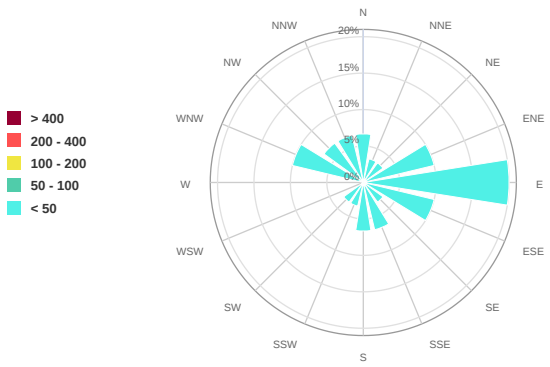
Powered by OIZOM REDEFINING RESOURCES

Weekly Average

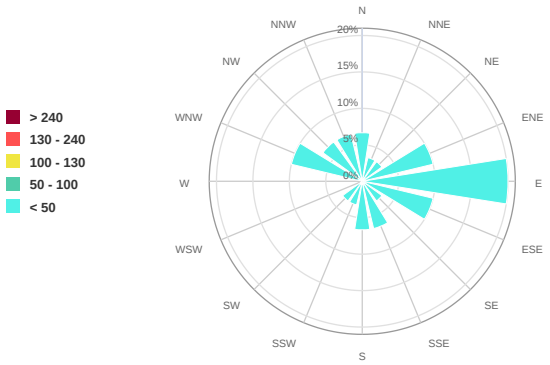
EAQI (AQI)



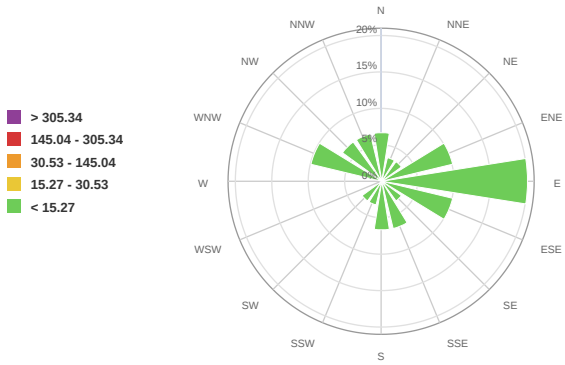
NO_2 (µg/m³)



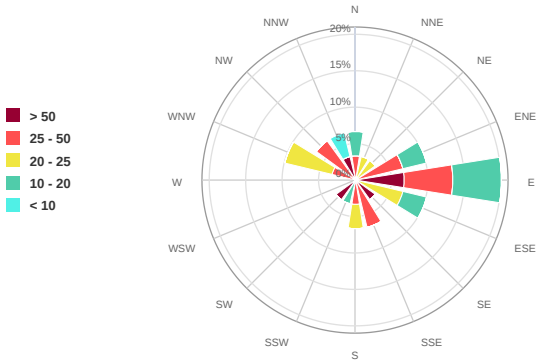
O_3 (µg/m³)



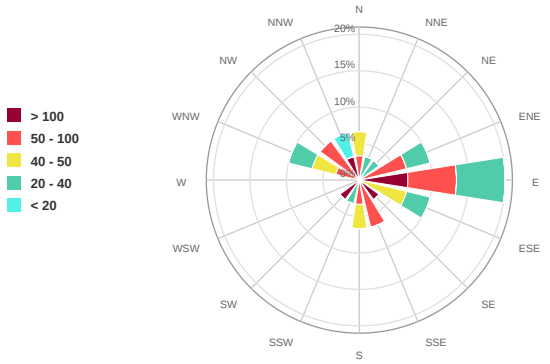
SO_2 (ppb)



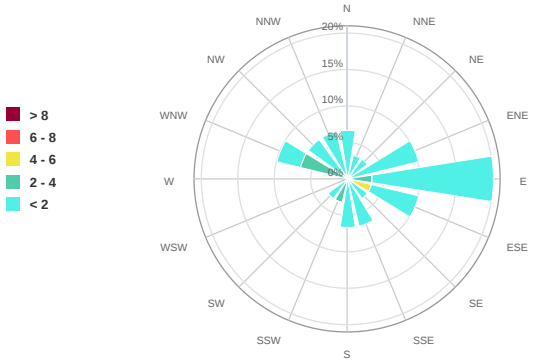
$PM_{2.5}$ (µg/m³)



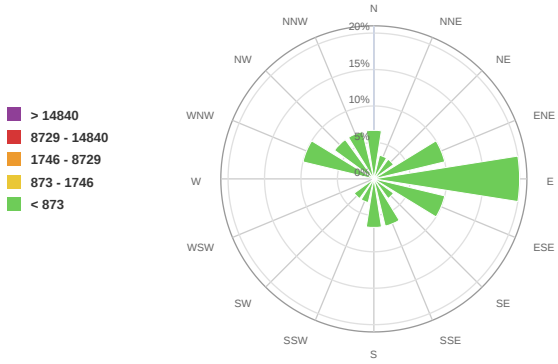
PM_{10} (µg/m³)



Wind Speed (m/s)

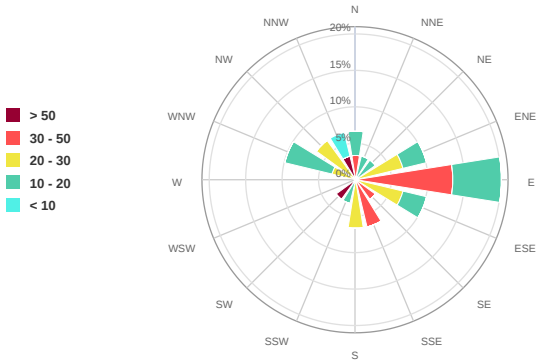


CO (ppb)

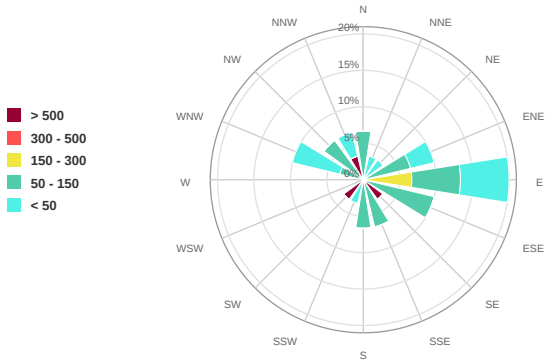


Powered by OIZOM REDEFINING RESOURCES

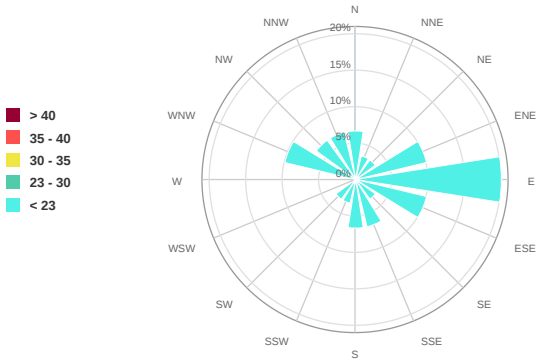
PM1 (µg/m³)



PM100 (µg/m³)



Temperature (°C)



Powered by OIZOM REDEFINING RESOURCES

Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI frequently exceeded moderate levels in December 2025**: EAQI reached 'Poor' or 'Very Poor' levels on several days, indicating unhealthy air quality. The highest recorded EAQI was 423.
- 30/12/2025, 23:59 **$PM_{2.5}$ levels often in 'Poor' to 'Very Poor' range**: $PM_{2.5}$ exceeded 25 µg/m³ on multiple occasions, reaching a peak of 135.24 µg/m³, classifying as 'Extremely Poor' according to the threshold.
- 30/12/2025, 23:59 **PM_{10} levels show 'Extremely Poor' air quality.**: PM_{10} frequently exceeded 50 µg/m³, with a maximum recorded value of 396.24 µg/m³, leading to 'Extremely Poor' air quality conditions on some days.
- 30/12/2025, 23:59 **NO_2 levels mainly in 'Moderate' zone**: NO_2 concentrations mostly fell within the 'Moderate' range (47.83 - 63.77 µg/m³), though values often exceeded this threshold.
- 30/12/2025, 23:59 **O_3 levels predominantly 'Good' to 'Fair'**: O_3 concentrations were generally low, mostly staying within the 'Good' and 'Fair' ranges. Several days recorded 0 µg/m³.
- 30/12/2025, 23:59 **SO_2 levels consistently in 'Good' range**: SO_2 concentrations remained consistently low and within the 'Good' range throughout the observed period, not exceeding 7 ppb.
- 30/12/2025, 23:59 **Wind speed might influence air quality**: Lower wind speeds (below 1 m/s) appear to coincide with higher EAQI values, suggesting reduced pollutant dispersion during these times.
- 30/12/2025, 23:59 **Humidity consistently high, above 70%**: Relative humidity remained consistently high, generally above 70%, which could influence the behavior and persistence of pollutants.
- 30/12/2025, 23:59 **Temperature fluctuations observed, correlation needed**: Temperature varied from -1.14 °C to 11.89 °C. Further analysis is needed to assess its impact on air quality parameters.
- 30/12/2025, 23:59 **EAQI and $PM_{2.5}$ show strong positive correlation**: There appears to be a strong positive correlation between the EAQI and $PM_{2.5}$ concentrations, indicating $PM_{2.5}$ is a major contributor to overall air quality.
- 08/12/2025, 23:59 **December 8th recorded extremely poor air quality**: December 8th had very high PM2.5 (89.36 µg/m³) and PM10 (292.57 µg/m³), resulting in an EAQI of 414 ('Extremely Poor').
- 25/12/2025, 23:59 **December 25th had best air quality**: On December 25th, the EAQI was 66, placing it in 'Fair' level, coincided with lower PM2.5 and PM10 values.
- 30/12/2025, 23:59 **High pressure may trap pollutants**: High pressure readings (above 1010 HPa) seem to coincide with periods of higher EAQI, potentially indicating pollutant trapping.
- 30/12/2025, 23:59 **CO levels show high variability**: CO levels show significant variation. Highest value of CO (508.44 ppb) recorded on December 18th.
- 30/12/2025, 23:59 **PM1 is lower than PM2.5 consistently**: PM1 values are consistently lower than PM2.5, as expected. This further validates the accuracy of the sensor measurements.
- 30/12/2025, 23:59 **Elevated PM100 levels during period of poor air quality**: Elevated PM100 levels correlate with days of poor air quality as indicated by EAQI. High of 833.81 on December 9th.
- 30/12/2025, 23:59 **Air quality worsening trend?**: EAQI values seem to indicate a general increasing trend in the first half of December before fluctuating and then slowly decreasing by month's end.
- 30/12/2025, 23:59 **Wind direction needs analysis**: Further analysis of wind direction is needed to pinpoint potential pollution sources. Predominant directions appear to be Northeast and Southwest.
- 30/12/2025, 23:59 **Low Ozone levels during winter**: Ozone levels are significantly low because of reduced photochemical reactions during winter. Frequently reported as zero.
- 30/12/2025, 23:59 **Impact of industrial activity on air quality**: Elevated pollutants suggest influence from localized industrial activities. Spikes indicate short-term events.
- 30/12/2025, 23:59 **EAQI correlated with temperature inversions**: Low temperatures near ground level may contribute to increased air pollution by trapping pollutants, which negatively impact EAQI.
- 11/12/2025, 23:59 **Spike in PM10 on Dec 8, Dec 9 and Dec 11**: Significant peaks in PM10 on Dec 8, 9, and 11 correlate with extremely high EAQI. Dec 9 peak recorded highest level of 396.24
- 30/12/2025, 23:59 **NO2 concentration crosses Moderate threshold consistently**: NO2 exceeds the moderate level across much of the period, highlighting a persistent pollution issue linked to combustion sources.
- 30/12/2025, 23:59 **Fair Air Quality Spells Exist**: Although the overall air quality is poor, there are still days where fair air quality is present, such as December 4, 5, 13, 15, 25, 29.
- 30/12/2025, 23:59 **Consistent Battery Percentage**: The battery percentage is consistently at 100, suggesting stable power supply. This reduces chance of sensor error.
- 30/12/2025, 23:59 **Air quality improvement in late December**: EAQI shows a general trend of improving air quality towards the end of December, with values declining from their peak in the early weeks.
- 30/12/2025, 23:59 **Elevated levels of CO contribute to poorer air quality**: Elevated CO levels likely contribute to a higher EAQI reading. High CO levels indicate combustion source emissions.

Powered by OIZOM REDEFINING RESOURCES

- 30/12/2025, 23:59 **Impact of Heating on Air Quality**: Lower temperatures indicate an increased need for heating fuel combustion, which may increase the levels of pollutants like $PM_{2.5}$ and NO_2.
- 30/12/2025, 23:59 **Correlation between pressure and PM levels?**: High pressure readings could be trapping particulate matter near the surface, increasing observed pollution levels.
- 30/12/2025, 23:59 **Overall Air Quality Concern**: High levels of particulate matter, specifically PM2.5 and PM10, poses a significant health risk to the community.

Powered by OIZOM REDEFINING RESOURCES

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	247	32.88	2.5	5.35	36.72	70
02/12/2025, 23:59	344	34.37	0	5.97	50.75	122.21
03/12/2025, 23:59	155	33.75	0	5.76	22.76	44.1
04/12/2025, 23:59	90	23.83	13.16	5.16	16.6	35.84
05/12/2025, 23:59	98	23.6	21.84	4.52	18.21	39.26
06/12/2025, 23:59	121	29.57	6.48	5.68	19.71	42.09
07/12/2025, 23:59	259	26.41	8.35	5.68	39.64	76.24
08/12/2025, 23:59	414	29.42	6.37	5.52	89.36	292.57
09/12/2025, 23:59	423	32	3.83	5.66	112.97	396.24
10/12/2025, 23:59	209	32.54	2.18	5.52	27.31	54.05
11/12/2025, 23:59	422	41.06	0	6.72	135.24	382.62
12/12/2025, 23:59	172	34.87	1.13	5.42	23.61	45.49
13/12/2025, 23:59	86	35.06	3.91	4.95	17.26	32.48
14/12/2025, 23:59	123	35.79	3.62	4.73	21.15	39.94
15/12/2025, 23:59	74	34.96	3.33	4.84	14.9	28.87
16/12/2025, 23:59	248	38.83	0	5.35	33.17	74.06
17/12/2025, 23:59	195	35.71	0	5.25	24.76	49.45
18/12/2025, 23:59	243	35.66	2.87	4.67	35.81	70.74
19/12/2025, 23:59	235	33.17	3.14	5.46	33.41	67.47
20/12/2025, 23:59	218	31.73	5.78	5.33	28.26	58.82
21/12/2025, 23:59	360	36.5	0.15	5.6	59.23	130.2
22/12/2025, 23:59	250	35.43	1.19	5.32	37.41	71.84
23/12/2025, 23:59	250	34.96	1.69	5.27	37.26	74.91
24/12/2025, 23:59	127	37.3	0	5.34	21.35	38.46
25/12/2025, 23:59	43	29.8	9.13	4.7	8.29	17.23
26/12/2025, 23:59	206	35.85	3.41	4.81	26.55	52.74
27/12/2025, 23:59	243	36.65	5.87	4.76	35.05	71.42
28/12/2025, 23:59	136	36.18	5.32	4.49	21.81	41.01
29/12/2025, 23:59	78	35.1	8.45	4.07	15.18	31.36
30/12/2025, 23:59	117	39.05	4.98	4.18	20.83	39.84

Powered by OIZOM REDEFINING RESOURCES

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	0.68	168.71	100	334.46	85.02	32.42	78.86	1007.03	6.08
02/12/2025, 23:59	1.4	86.76	100	389.8	86.9	37.55	211.87	1008.06	4.81
03/12/2025, 23:59	1.45	104.32	100	345.55	88.26	20.66	51.98	1005.28	5.72
04/12/2025, 23:59	2.88	97.61	100	313.47	80.2	14.98	47.82	1001.04	9.65
05/12/2025, 23:59	4.38	112.33	100	399.73	73.64	16.62	52.21	997.12	11.89
06/12/2025, 23:59	0.67	358.72	100	351.17	82.21	17.77	53.29	1001.64	7.96
07/12/2025, 23:59	1.14	351.2	100	363.24	86.75	35.67	87.85	1003.8	8.29
08/12/2025, 23:59	1.73	344.65	100	445.07	87.3	50.21	563.83	1009.37	7.78
09/12/2025, 23:59	1.23	144.37	100	313.68	89.84	40.6	833.81	1011.75	5.66
10/12/2025, 23:59	0.83	175.23	100	411.05	83.62	24.89	63.84	1008.97	6.72
11/12/2025, 23:59	0.92	225.81	100	455.81	90.45	59.93	674.62	1011.12	4.5
12/12/2025, 23:59	0.43	188.64	100	324.07	87.24	20.76	51.61	1012.85	5.53
13/12/2025, 23:59	0.36	62.97	100	301.59	84.55	15.25	36.45	1016.38	4.71
14/12/2025, 23:59	0.13	19.21	100	330.25	83.12	18.88	44.57	1016.72	4.15
15/12/2025, 23:59	1.32	97.54	100	330.54	80.59	13.3	33.26	1015.51	3.37
16/12/2025, 23:59	1.45	74.65	100	449.07	84.01	27.62	112.11	1012.06	1.62
17/12/2025, 23:59	0.87	122.16	100	408.35	80.13	22.55	58	1011.75	3.92
18/12/2025, 23:59	1.13	163.17	100	508.44	77.14	32.87	82.27	1015.8	7.38
19/12/2025, 23:59	1.08	81.73	100	416.29	82.53	30.68	79.27	1013.83	7.93
20/12/2025, 23:59	0.09	284.96	100	445.01	80.53	25.53	71.04	1008.2	8.42
21/12/2025, 23:59	0.18	97.57	100	375.16	87.34	42.02	191.19	1007.19	5.16
22/12/2025, 23:59	1.42	83.88	100	328.48	87.79	30.88	79.13	1007.55	4.87
23/12/2025, 23:59	1.32	75.88	100	341.36	84.85	28.54	94.92	1005.25	3.49
24/12/2025, 23:59	1.52	53.27	100	332.69	84.98	19.36	41.78	1005.65	4.16
25/12/2025, 23:59	1.38	344.87	100	285.36	78.13	7.32	22.25	1014.87	5.76
26/12/2025, 23:59	2	318.35	100	303.72	84.42	22.13	59.02	1016.26	3.09
27/12/2025, 23:59	1.08	307.62	100	336.73	83.71	29.34	97.22	1012.91	2.67
28/12/2025, 23:59	2.68	298.33	100	354.05	78.95	19.68	45.47	1005.75	2.15
29/12/2025, 23:59	3.13	202.52	100	313.46	79.25	13.23	35.75	1004.93	0.03
30/12/2025, 23:59	2.76	282.3	100	373.05	79.46	18.6	43.48	1000.97	-1.14

Oizom will not be responsible for Environmental Data accuracy once Validated

Powered by OIZOM REDEFINING RESOURCES