Primaria Deta

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Deta**
Locația dispozitivului: **Strada Aurel Vlaicu 2, Deta, 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): **363**

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	363	11.4	21.29	1.2	43.53	131.43
Maximum	499	22.89	45.44	2.71	258.67	1194.08
Date	11/11/2025	14/11/2025	02/11/2025	27/11/2025	13/11/2025	11/11/2025
Minimum	35	0	0	0	4.92	13.84
Date	25/11/2025	01/11/2025	08/11/2025	01/11/2025	25/11/2025	25/11/2025

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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	Pressure HPa	Temperature °C
Average	1.04	183.59	100	300.77	80.67	25.09	223.63	1007.96	8.95
Maximum	9.49	161.84	100	472.74	92.83	68.35	2281.7	1017.36	17.87
Date	25/11/2025	25/11/2025	01/11/2025	14/11/2025	29/11/2025	30/11/2025	11/11/2025	05/11/2025	02/11/2025
Minimum	0.63	181.36	100	238.24	60.82	3.51	20.71	996.67	2.62
Date	09/11/2025	09/11/2025	01/11/2025	03/11/2025	25/11/2025	25/11/2025	25/11/2025	25/11/2025	23/11/2025

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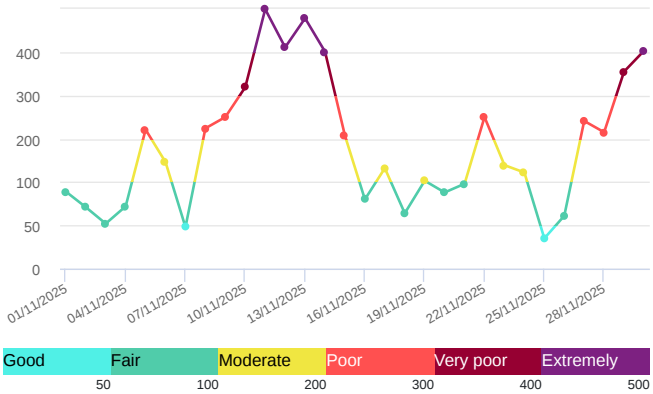
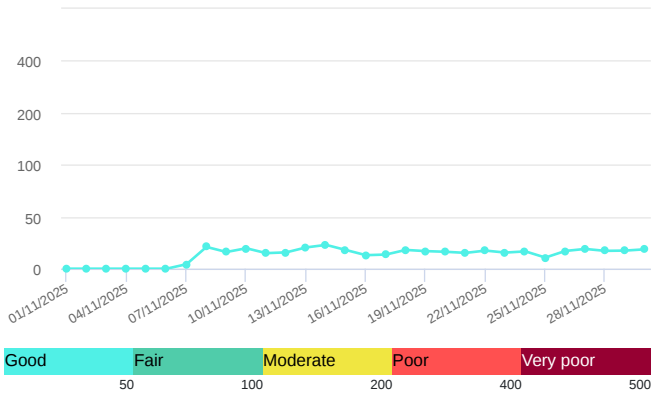
Weekly Average

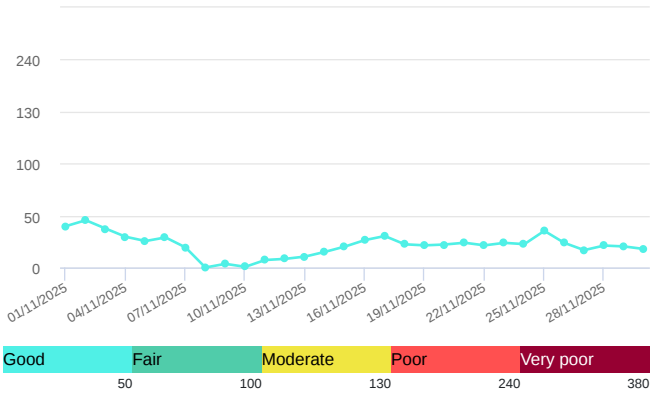
EAQI (AQI)



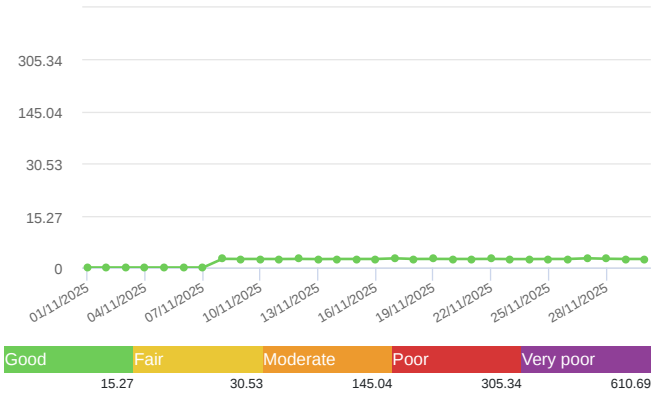
NO_2 (µg/m³)



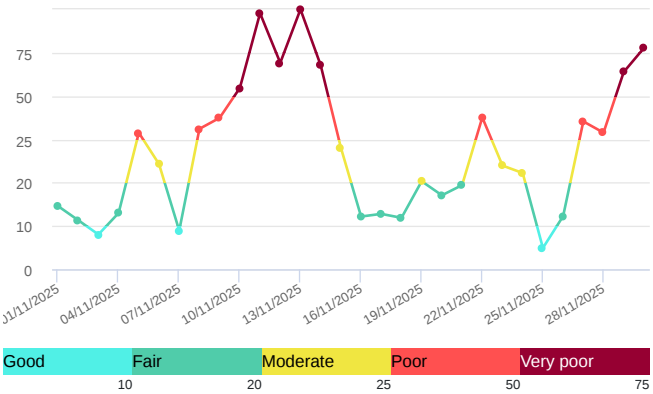
O_3 (µg/m³)



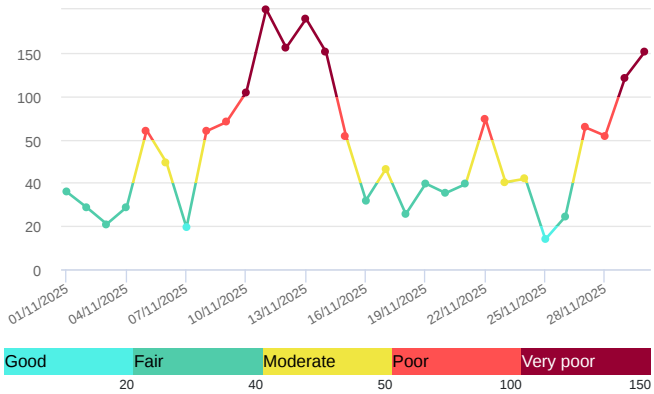
SO_2 (ppb)



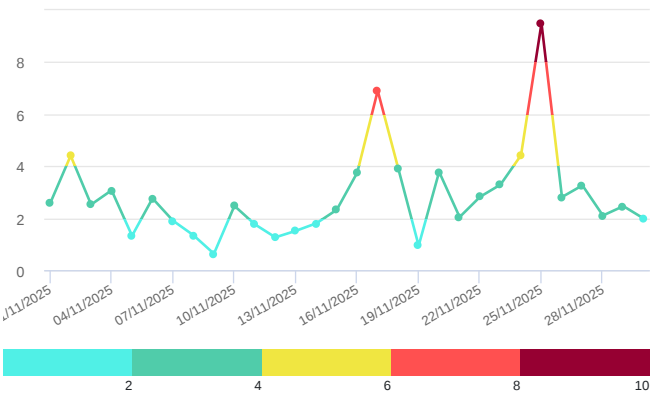
$PM_{2.5}$ (µg/m³)



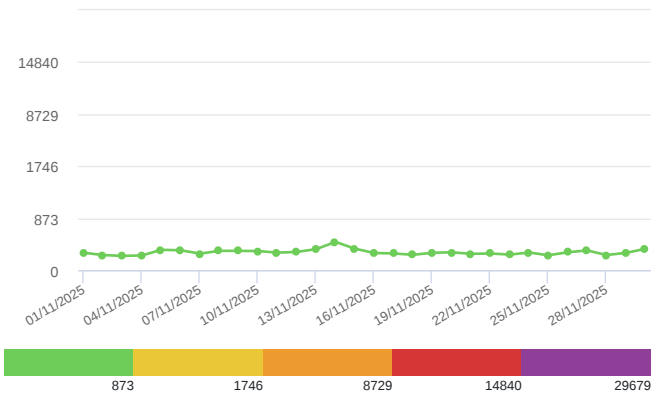
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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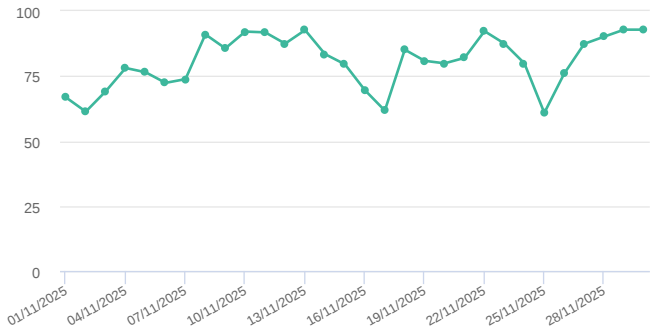
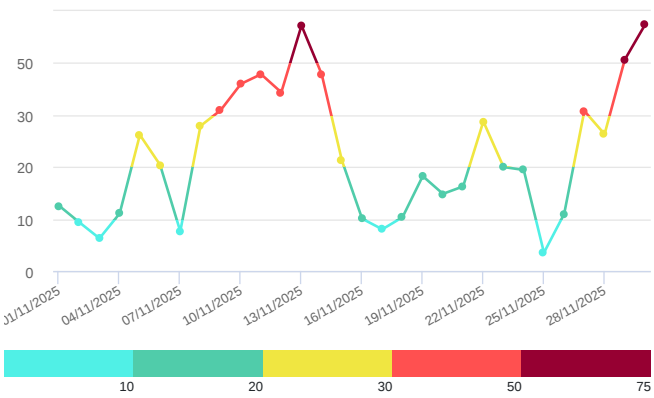
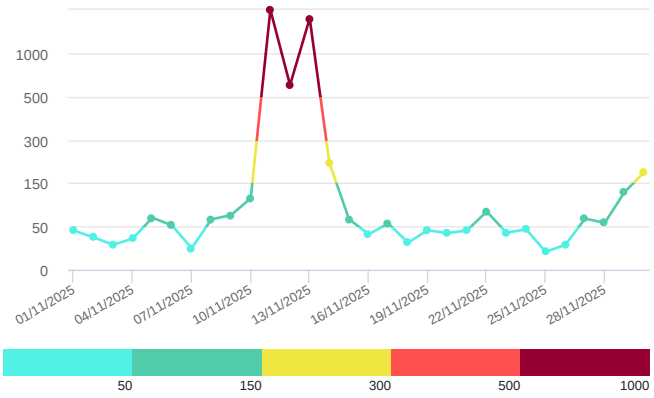
R. Humidity (%)



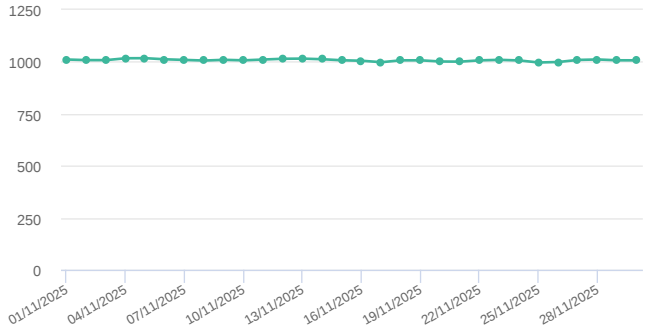
PM₁ (µg/m³)



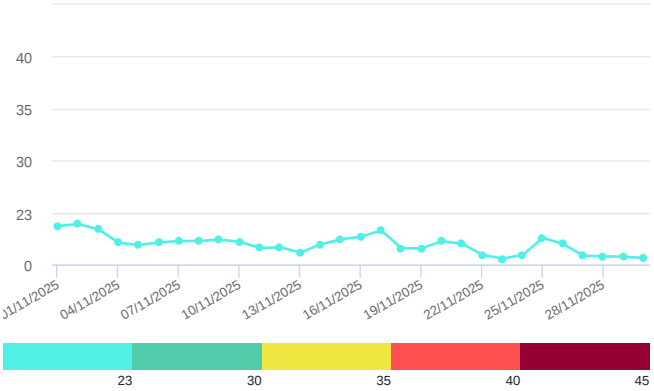
PM₁₀₀ (µg/m³)



Pressure (HPa)



Temperature (°C)



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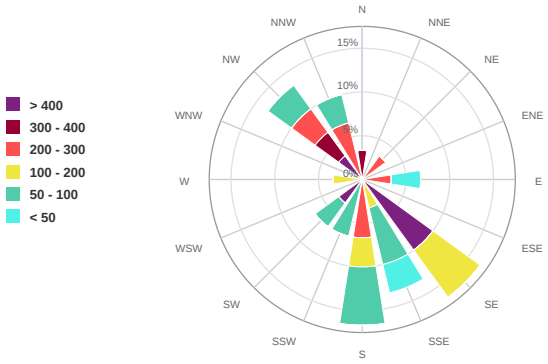
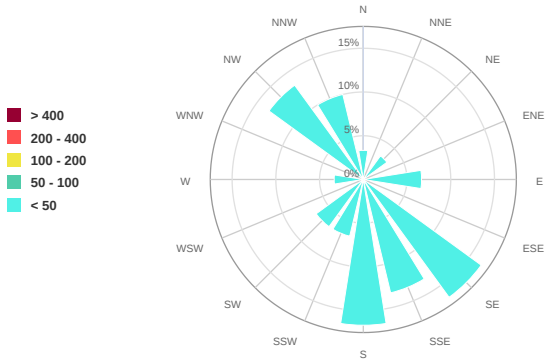
Weekly Average

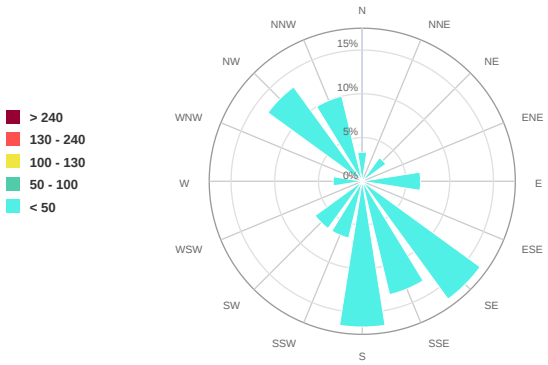
EAQI (AQI)



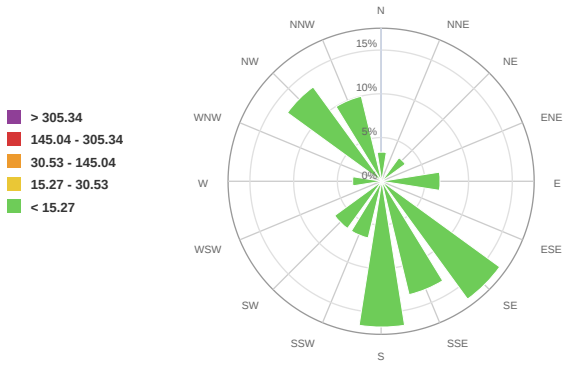
NO_2 (µg/m³)



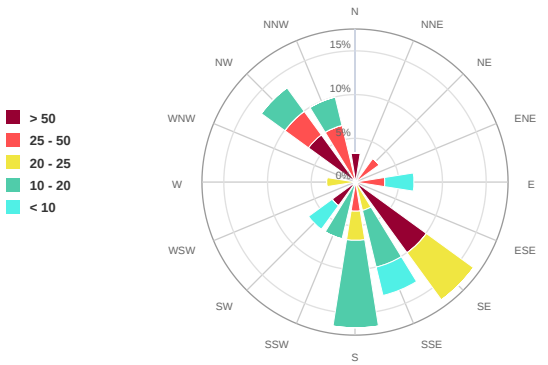
O_3 (µg/m³)



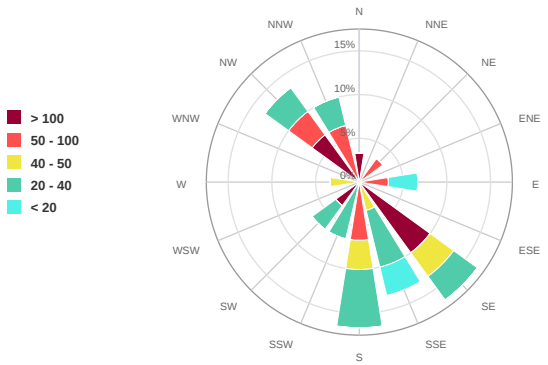
SO_2 (ppb)



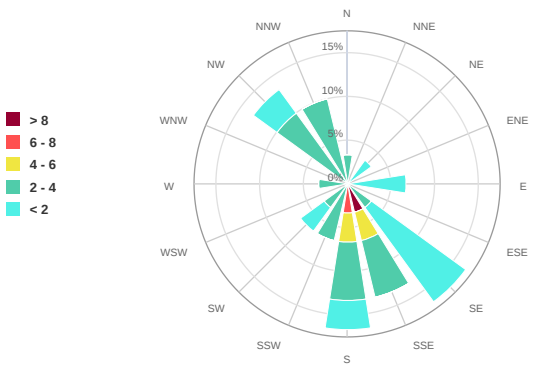
$PM_{2.5}$ (µg/m³)



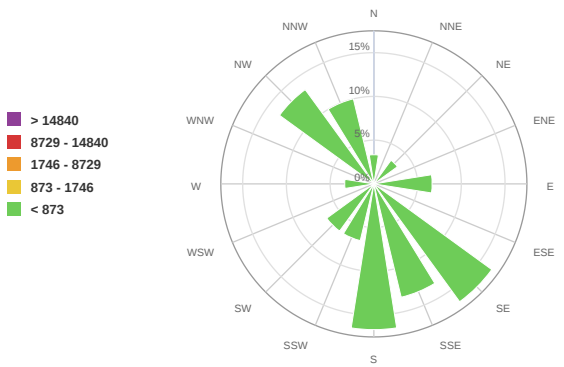
PM_{10} (µg/m³)



Wind Speed (m/s)



CO (ppb)



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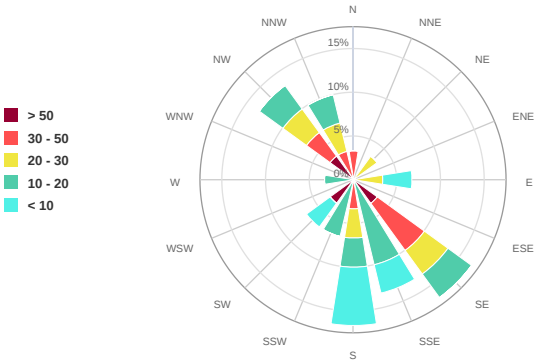
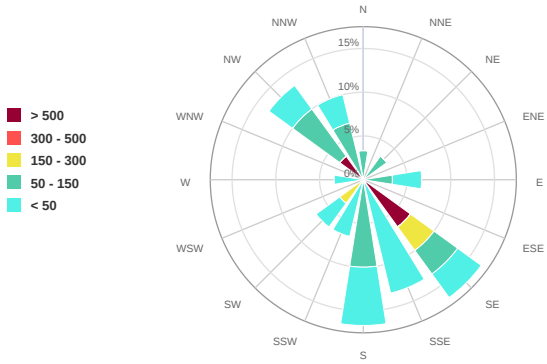
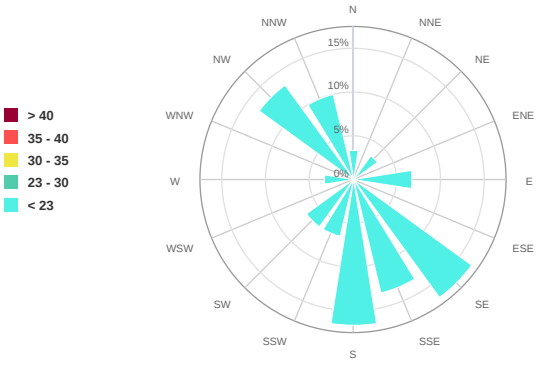
PM_1 (µg/m³)



PM_{100} (µg/m³)



Temperature (°C)



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Alerte

No alerts for the selected date and time range

Insights

- 14/11/2025, 23:59 **EAQI reached extremely poor levels during mid-November.**: The Environmental Air Quality Index (EAQI) peaked at extremely poor levels, exceeding 400 on multiple days, with the highest recorded value of 499.
- 30/11/2025, 23:59 **$PM_{2.5}$ concentrations frequently exceeded safe limits.**: $PM_{2.5}$ concentrations frequently exceeded the 'Poor' threshold (25 µg/m³) indicating a significant health risk. Highest reading was at 258.67 µg/m³.
- 13/11/2025, 23:59 **PM_{10} values spiked dramatically in early to mid November**: PM_{10} levels reached extremely poor values, peaking at 1194.08 µg/m³, far exceeding the upper limit of the 'Very Poor' range (150 µg/m³).
- 30/11/2025, 23:59 **NO_2 concentrations mostly within 'Good' to 'Fair' zones**: NO_2 concentrations remained relatively low, mostly within the 'Good' (0-21.26 µg/m³) and 'Fair' (21.26-47.83 µg/m³) ranges, except for few spikes.
- 30/11/2025, 23:59 **O_3 levels fluctuated, with most values in fair-moderate range.**: Ozone (O_3) levels fluctuated, with most values falling within the 'Fair' (25.47-50.94 µg/m³) to 'Moderate' (50.94-66.22 µg/m³) range.
- 30/11/2025, 23:59 **SO_2 levels remained consistently low throughout the month.**: Sulfur Dioxide (SO_2) levels consistently remained low, staying within the 'Good' range (0-38.17 ppb) throughout the entire period.
- 30/11/2025, 23:59 **High EAQI days correlate with elevated $PM_{2.5}$ and PM_{10} levels.**: Days with 'Poor' to 'Extremely Poor' EAQI values strongly correlate with increased concentrations of both $PM_{2.5}$ and PM_{10} particulate matter.
- 30/11/2025, 23:59 **Wind speed shows some relationship with air quality changes.**: There appears to be a moderate correlation between wind speed and improvements in air quality, higher speed may disperse pollutants.
- 30/11/2025, 23:59 **Temperature appears to inversely correlate with EAQI**: EAQI appear to be higher when the temperatures are low. The lowest temperature was at 2.62 °C and highest EAQI was recorded as 478.
- 30/11/2025, 23:59 **R. Humidity increase correlates with $PM_{2.5}$ and PM_{10} increase.**: There may be a correlation between increased relative humidity and increased concentrations of $PM_{2.5}$ and PM_{10}, particularly on days with poorer air quality.
- 07/11/2025, 23:59 **November 7th registered the best Air Quality of the Month.**: November 7th showed the best air quality of the whole month. with an EAQI value of 48 (Good). All pollutant parameters was at a safe level.
- 30/11/2025, 23:59 **Pressure appears to inversely correlate with EAQI**: The atmospheric pressure tend to drop during the days EAQI is high. For example, on 2025-11-17T21:59:59.000Z atmospheric pressure drops to 998.11 HPa.
- 30/11/2025, 23:59 **The daily average CO concentration remained stable.**: Daily average Carbon Monoxide concentration remained stable. The highest concentration reported was 472.74 ppb on 2025-11-14T21:59:59.000Z.
- 13/11/2025, 23:59 **Extremely high PM_{100} levels coincide with poor EAQI**: Elevated PM_{100} values, such as 2281.7 µg/m³ on 2025-11-11T21:59:59.000Z, correlate with extremely poor EAQI, contributing to overall air quality degradation.
- 07/11/2025, 23:59 **Good Air Quality on 2025-11-07T21:59:59.000Z.**: On November 7th, all the air quality parameters were the lowest of the month, with EAQI being 48, indicating 'Good' air quality.
- 30/11/2025, 23:59 **Air Quality deterioration towards end of the month**: EAQI values shows a deteriorating trend towards end of the month, with air quality falling in 'Very poor' and 'Extremely poor' zones.
- 30/11/2025, 23:59 **PM_1 concentration correlates with $PM_{2.5}$ and PM_{10} levels.**: The trend shows that PM_1 levels increases with increase in $PM_{2.5}$ and PM_{10} levels. On 2025-11-11T21:59:59.000Z PM_1 reaches to its peak.
- 30/11/2025, 23:59 **O_3 shows consistently low concentrations.**: Ozone concentration recorded was low with a value of 0 µg/m³ on multiple occasions. High ozone days were recorded in the first week.
- 30/11/2025, 23:59 **EAQI and EAQI (AQI) are identical**: The values for EAQI column is identical to EAQI (AQI) for each day. This observation eliminates the necessity to perform two distinct calculations.
- 30/11/2025, 23:59 **Battery levels remained constant.**: The battery percentage of the monitoring device remained constant at 100% throughout the entire month. There was no recorded drop.
- 07/11/2025, 23:59 **NO_2 reached Good air quality levels.**: The NO_2 values observed were in good air quality levels. The concentration value of 0 µg/m³ was recorded on multiple days.
- 30/11/2025, 23:59 **Fluctuation observed for all particulate matter.**: The particulate matter like $PM_{2.5}$, PM_{10} and PM_{100} fluctuated across the month. There was no fixed pattern for these particulate matters.
- 30/11/2025, 23:59 **Wind Direction and Speed may be related to air quality.**: Further analysis should be done to see how wind direction and speed impact the pollutant concentration and air quality in general.
- 05/11/2025, 23:59 **Increased concentration of O3 on November 5th.**: On November 5th the concentration of O3 recorded was 50 µg/m³, which classifies as a moderate zone according to the air quality ranges.
- 16/11/2025, 23:59 **Air quality was fair on November 16th.**: The air quality was fair on November 16th, where the AQI category was in the fair range. The EAQI on that day was 80.
- 30/11/2025, 23:59 **SO_2 was almost at zero on most days.**: Sulfur Dioxide (SO_2) levels recorded was close to 0 on most days, however, on the November 27th, 2025 the value was 2.71.
- 25/11/2025, 23:59 **Air quality improved on November 25th.**: The air quality was fair on November 25th. The particulate matters $PM_{2.5}$, PM_{10} and PM_1 were at its lowest levels.

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- 30/11/2025, 23:59 **Temperature may have a negative impact on PM2.5 levels**: Further analysis is needed to verify the correlation between temperature and PM2.5. However, on several occasions when temperature drops PM2.5 levels go up.
- 30/11/2025, 23:59 **Poor air quality days observed with low wind speed.**: Further investigation needs to be done to analyze the correlation between wind speed and air quality. On very poor air quality days, the wind speed was very low.
- 11/11/2025, 23:59 **November 11th, 2025 has peak PM10 values.**: On November 11th, 2025 at 21:59:59.000Z PM10 values was at its peak. The concentration was 1194.08 µg/m³.

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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
01/11/2025, 23:59	89	0	39.73	0	14.59	35.69
02/11/2025, 23:59	71	0	45.44	0	11.33	28.53
03/11/2025, 23:59	52	0	37.4	0	8.03	20.88
04/11/2025, 23:59	72	0	29.56	0	13	28.72
05/11/2025, 23:59	221	0	25.47	0	28.79	60.43
06/11/2025, 23:59	146	0	28.88	0	22.14	44.59
07/11/2025, 23:59	48	4.28	19.34	0	8.94	19.24
08/11/2025, 23:59	224	20.96	0	2.53	31.05	59.38
09/11/2025, 23:59	250	16.03	3.51	2.51	37.39	69.83
10/11/2025, 23:59	319	19.64	0.67	2.51	54.64	104.48
11/11/2025, 23:59	499	14.96	7.18	2.49	242.27	1194.08
12/11/2025, 23:59	411	15.68	8.3	2.52	69.15	269.78
13/11/2025, 23:59	478	20.46	10.48	2.48	258.67	966.1
14/11/2025, 23:59	401	22.89	15.04	2.5	67.79	163.59
15/11/2025, 23:59	207	17.93	20.13	2.5	24.04	53.74
16/11/2025, 23:59	80	12.98	26.33	2.5	12.18	31.84
17/11/2025, 23:59	132	13.59	30.23	2.69	12.79	43.17
18/11/2025, 23:59	64	18.05	22.31	2.5	11.88	25.48
19/11/2025, 23:59	103	16.9	21.3	2.52	20.16	39.58
20/11/2025, 23:59	88	16.25	22.12	2.5	17.08	35.19
21/11/2025, 23:59	98	15.18	23.78	2.5	19.43	39.34
22/11/2025, 23:59	250	17.41	21.31	2.52	37.62	73.11
23/11/2025, 23:59	139	15.52	23.7	2.48	21.97	40.12
24/11/2025, 23:59	122	16.67	22.46	2.48	21.11	40.9
25/11/2025, 23:59	35	10.7	35.23	2.5	4.92	13.84
26/11/2025, 23:59	61	17.04	23.71	2.51	12.26	24.31
27/11/2025, 23:59	241	19.01	16.68	2.71	35.32	63.91
28/11/2025, 23:59	215	17.16	21.09	2.56	28.84	54.08
29/11/2025, 23:59	355	17.39	20.26	2.51	63.86	121.2
30/11/2025, 23:59	403	18.65	17.8	2.5	94.83	177.83

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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	Pressure HPa	Temperature °C
01/11/2025, 23:59	2.57	146.98	100	291.1	66.79	12.55	45.3	1011.02	17.09
02/11/2025, 23:59	4.4	171.43	100	252.14	61.29	9.36	37.49	1008.21	17.87
03/11/2025, 23:59	2.52	229.65	100	238.24	69.12	6.27	28.79	1008.06	15.61
04/11/2025, 23:59	3.07	321.93	100	246.37	78.08	11.06	35.92	1017.07	9.67
05/11/2025, 23:59	1.32	44.95	100	340.85	76.44	26.17	70.3	1017.36	8.66
06/11/2025, 23:59	2.76	133	100	332.8	72.36	20.4	52.21	1012.02	9.79
07/11/2025, 23:59	1.9	86.8	100	276.53	73.79	7.62	24.84	1009.02	10.39
08/11/2025, 23:59	1.34	84.98	100	322.77	91.01	27.89	66.31	1006.04	10.42
09/11/2025, 23:59	0.63	181.36	100	322.75	85.63	31.85	76.23	1009.52	11.05
10/11/2025, 23:59	2.47	357.87	100	319.94	92.09	41.96	115.07	1007.06	10.07
11/11/2025, 23:59	1.76	309.11	100	293.06	91.79	45.68	2281.7	1010.92	7.31
12/11/2025, 23:59	1.26	142.3	100	304.62	87.46	38.7	631.8	1014.62	7.63
13/11/2025, 23:59	1.51	132.94	100	351.98	92.67	68.03	2028.38	1015.31	5.32
14/11/2025, 23:59	1.8	132.8	100	472.74	83.42	45.65	220.37	1012.32	8.97
15/11/2025, 23:59	2.32	175.58	100	359.92	79.49	21.24	66.47	1007.38	11.14
16/11/2025, 23:59	3.75	175.29	100	286.9	69.55	10.05	41.08	1005.03	12.38
17/11/2025, 23:59	6.9	187.15	100	279.44	61.7	8.01	56.4	998.11	15.04
18/11/2025, 23:59	3.92	336.85	100	257.07	85.12	10.34	31.29	1007.15	7.28
19/11/2025, 23:59	0.94	124.69	100	290.75	80.84	18.24	45.55	1007.09	7.13
20/11/2025, 23:59	3.78	156.12	100	298.71	79.87	14.83	42.3	1001.43	10.39
21/11/2025, 23:59	2.04	209.05	100	272.95	81.98	16.26	45.33	1000.71	9.17
22/11/2025, 23:59	2.82	322.56	100	278.73	92.25	28.76	84.41	1006.91	4.37
23/11/2025, 23:59	3.29	267.02	100	260.52	87.47	19.99	42.74	1009.49	2.62
24/11/2025, 23:59	4.42	165.54	100	294.75	79.87	19.43	46.65	1006.53	4.25
25/11/2025, 23:59	9.49	161.84	100	248.53	60.82	3.51	20.71	996.67	11.8
26/11/2025, 23:59	2.81	196.81	100	299.56	75.96	10.97	28.77	999.06	9.13
27/11/2025, 23:59	3.26	329.02	100	330.43	87.36	31.56	67.98	1009.12	3.92
28/11/2025, 23:59	2.1	331.81	100	253.26	90.14	26.31	58.25	1011.21	3.63
29/11/2025, 23:59	2.46	307.52	100	288.86	92.83	51.59	128.67	1007.25	3.44
30/11/2025, 23:59	1.98	214.79	100	356.85	92.83	68.35	187.66	1007.08	2.9

Oizom will not be responsible for Environmental Data accuracy once Validated

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