Primaria Sacalaz

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Sacalaz**
Locația dispozitivului: **Strada Principală 368, Săcălaz 307370, 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): **296**

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

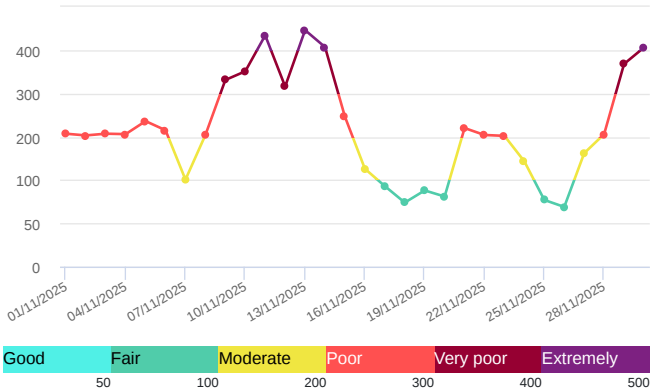
	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	296	48.13	12.57	0	39.35	98.08
Maximum	446	137.45	76.92	2.52	172.56	631.89
Date	13/11/2025	05/11/2025	25/11/2025	08/11/2025	13/11/2025	13/11/2025
Minimum	69	18.27	0	0	4.81	11.54
Date	26/11/2025	25/11/2025	01/11/2025	01/11/2025	25/11/2025	25/11/2025

Prezentare generală zilnică: Alți parametri

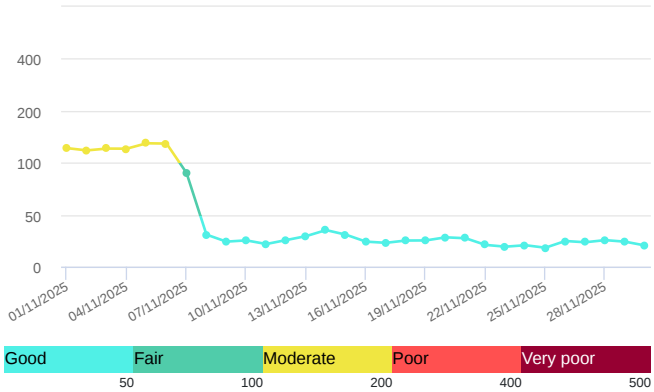
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Pressure HPa	Temperature °C
Average	0.17	91.27	100	350.89	80.63	26.96	150.8	1008.43	8.64
Maximum	4.1	357.01	100	521.17	92.57	71.98	1286.38	1017.85	16.84
Date	27/11/2025	27/11/2025	01/11/2025	14/11/2025	13/11/2025	30/11/2025	13/11/2025	05/11/2025	01/11/2025
Minimum	1.61	45.41	100	256.24	64.3	3.74	13.48	996.91	2.41
Date	05/11/2025	05/11/2025	01/11/2025	25/11/2025	17/11/2025	25/11/2025	25/11/2025	25/11/2025	23/11/2025

Weekly Average

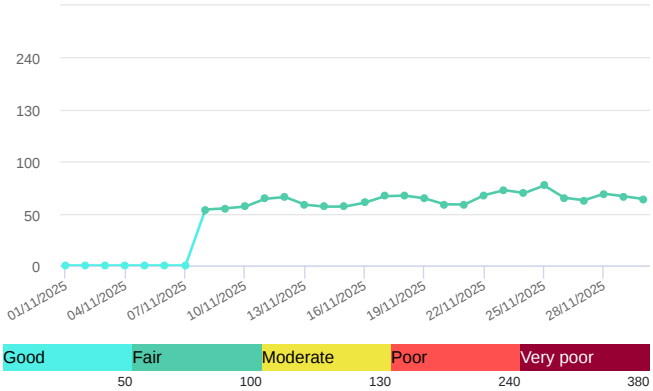
EAQI (AQI)



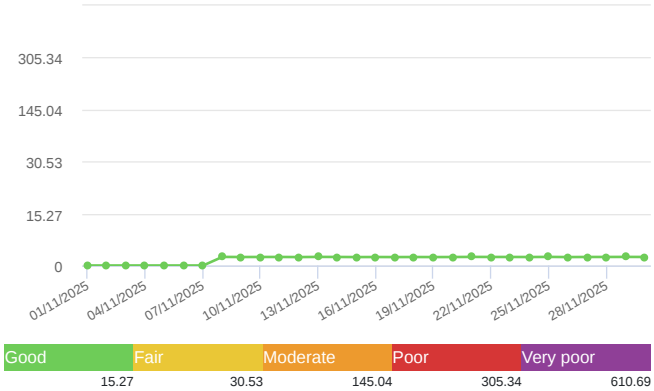
NO_2 (µg/m³)



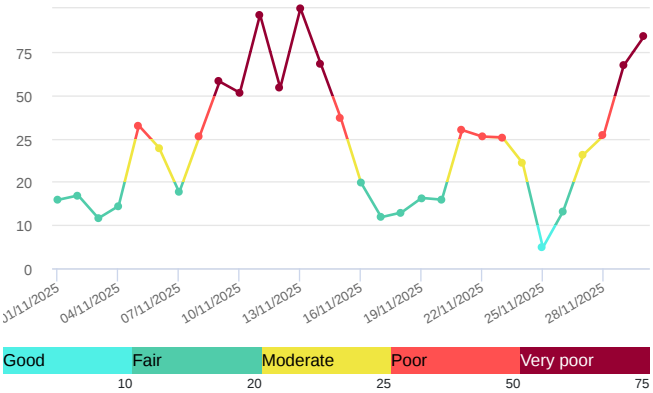
O_3 (µg/m³)



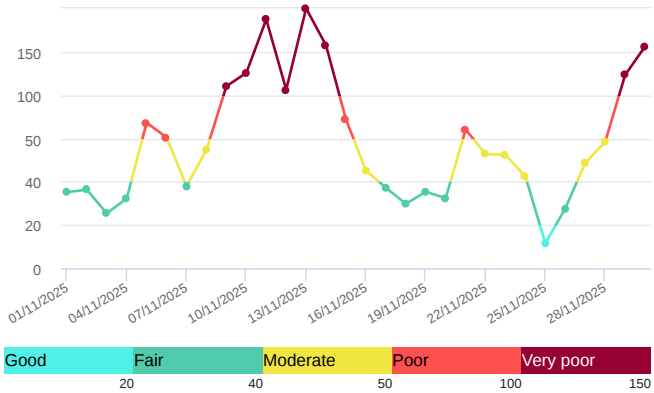
SO_2 (ppb)



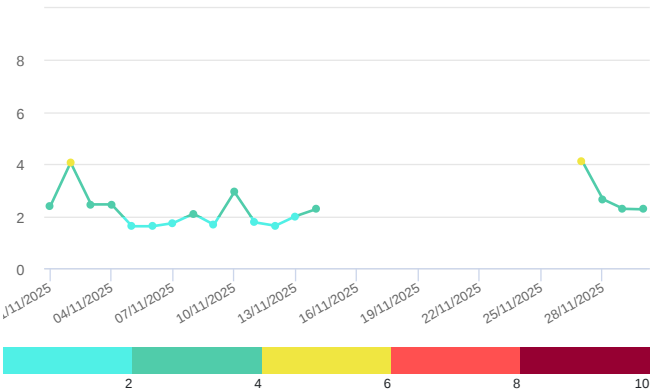
$PM_{2.5}$ (µg/m³)



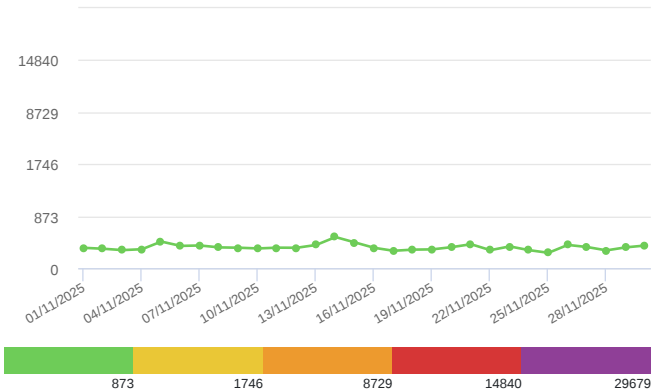
PM_{10} (µg/m³)



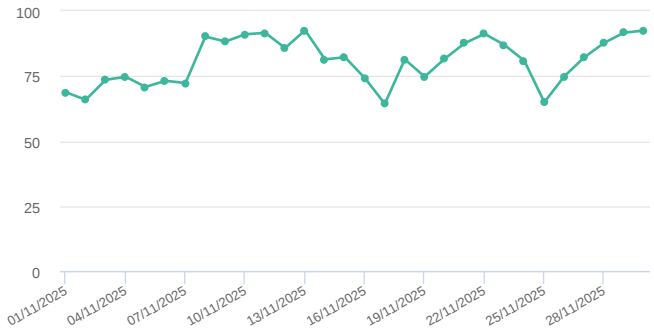
Wind Speed (m/s)



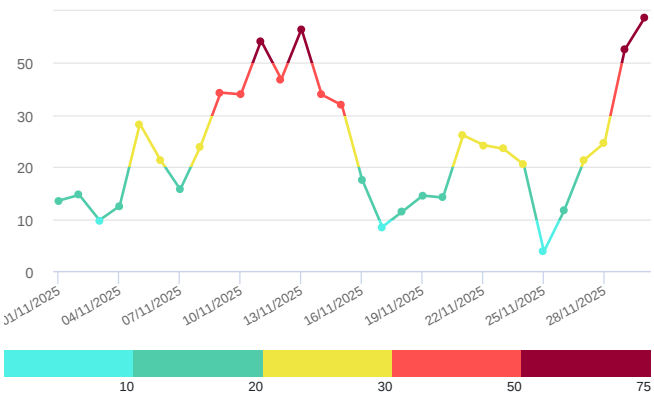
CO (ppb)



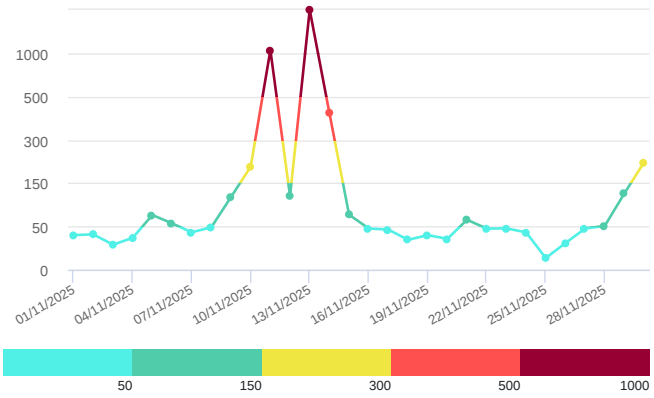
R. Humidity (%)



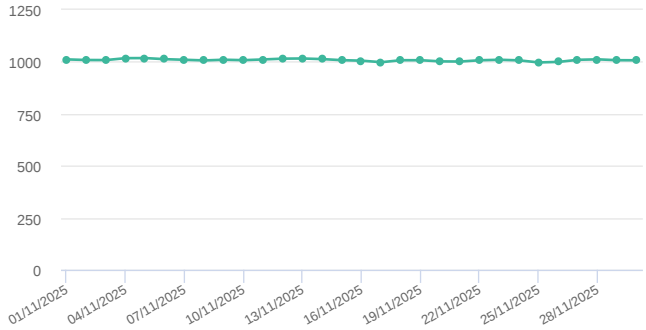
PM₁ (µg/m³)



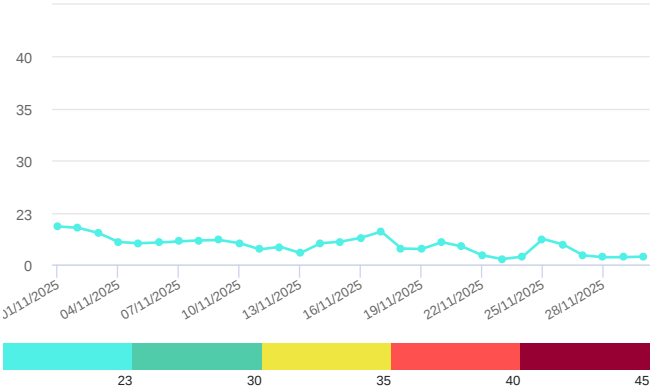
PM₁₀₀ (µg/m³)



Pressure (HPa)

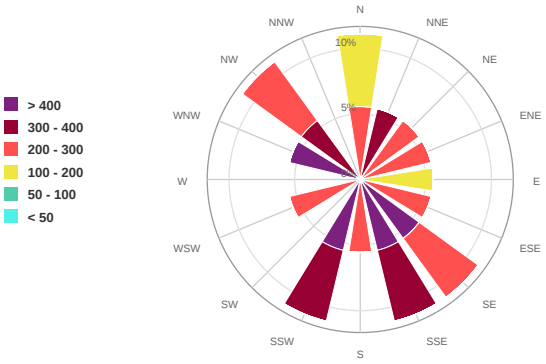


Temperature (°C)

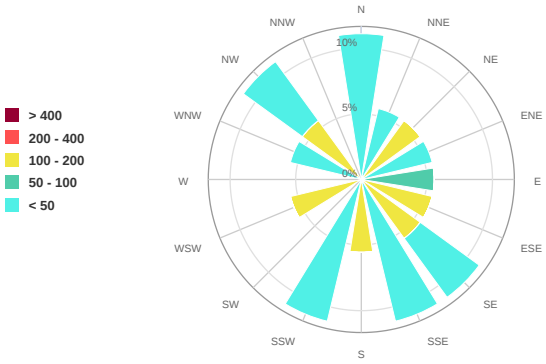


Weekly Average

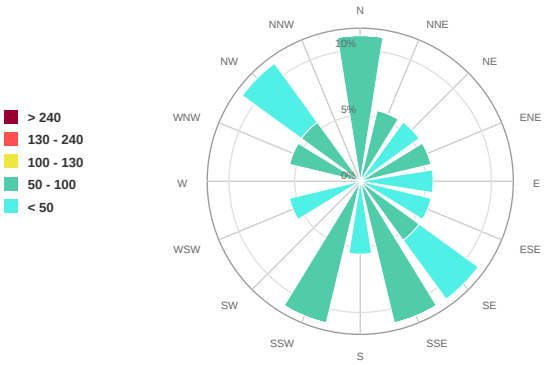
EAQI (AQI)



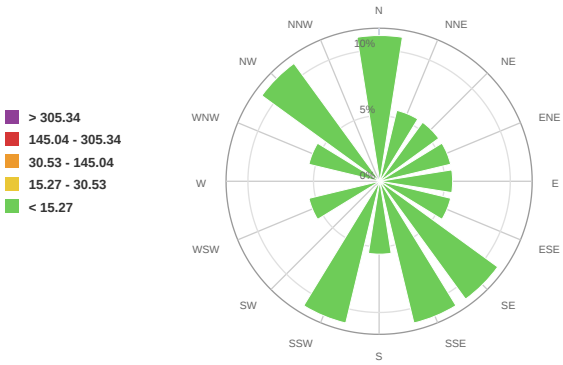
NO_2 (µg/m³)



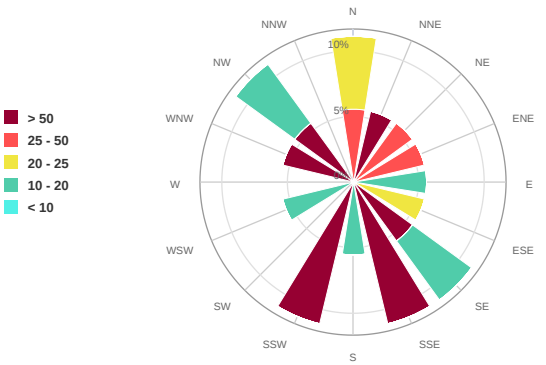
O_3 (µg/m³)



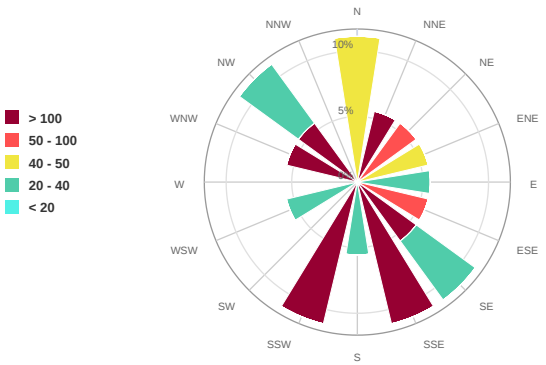
SO_2 (ppb)



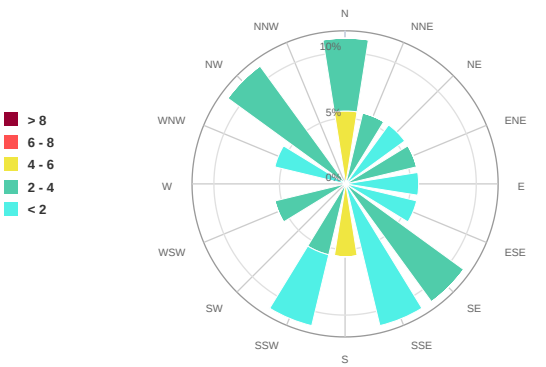
$PM_{2.5}$ (µg/m³)



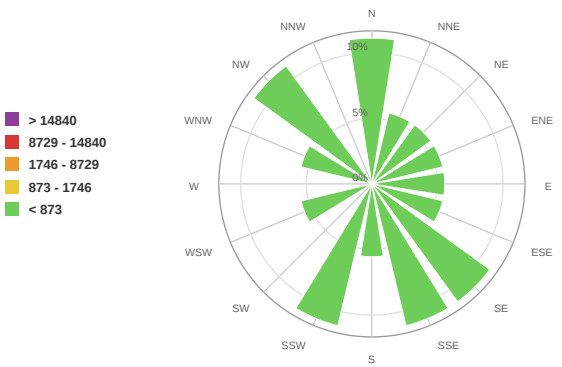
PM_{10} (µg/m³)



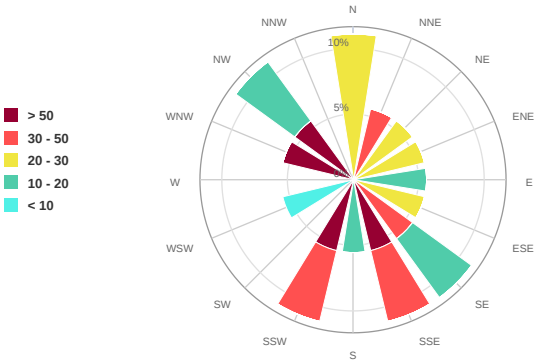
Wind Speed (m/s)



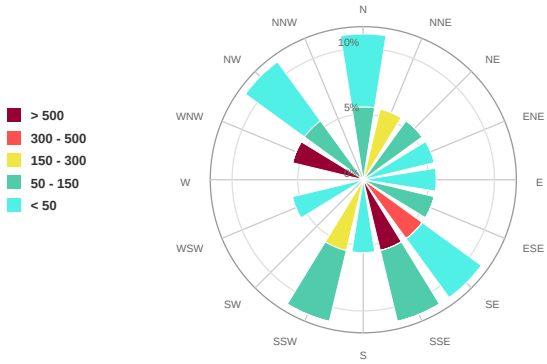
CO (ppb)



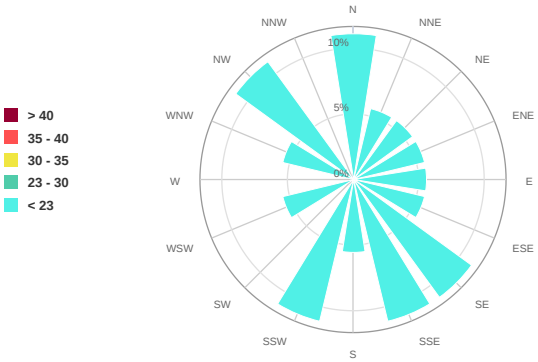
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/11/2025, 23:59 **Predominantly Poor to Very Poor Air Quality Observed**: The EAQI frequently falls within the 'Poor' to 'Very Poor' range, indicating a consistent air quality issue. High EAQI values are prevalent throughout the observed period.
- 30/11/2025, 23:59 **High NO_2 Levels Contribute to Poor Air Quality**: NO_2 levels often exceed the 'Poor' threshold (>63.77 µg/m³), significantly contributing to the degraded EAQI values. Elevated levels are observed throughout the month.
- 30/11/2025, 23:59 **O_3 Levels Frequently in Moderate Range**: Ozone (O_3) levels often fall within the moderate range (50.94 - 66.22 µg/m³), but are also frequently elevated, impacting air quality negatively.
- 30/11/2025, 23:59 **SO_2 Levels Consistently Low**: Sulfur Dioxide (SO_2) concentrations remain consistently low, staying well within the 'Good' range (<38.17 ppb) throughout the entire observation period.
- 30/11/2025, 23:59 **$PM_{2.5}$ Fluctuations Impact Air Quality Readings**: $PM_{2.5}$ levels fluctuate, with some days showing levels within the 'Fair' to 'Poor' range (10-50 µg/m³), contributing to fluctuations in the overall EAQI.
- 30/11/2025, 23:59 **PM_{10} Levels Often in Poor Range**: PM_{10} concentrations frequently fall into the 'Poor' range (50-100 µg/m³), significantly impacting overall air quality and contributing to high EAQI values.
- 14/11/2025, 23:59 **Extremely Poor Air Quality Spikes Observed Mid-Month**: EAQI values reached 'Extremely Poor' levels (>400) around the middle of the month, indicating severe pollution episodes, especially between 2025-11-11 and 2025-11-14.
- 30/11/2025, 23:59 **High Relative Humidity Correlates with Poorer Air Quality**: Higher relative humidity appears to correlate with days having poorer air quality, potentially exacerbating the effects of pollutants.
- 30/11/2025, 23:59 **Temperature Does not Correlate Greatly With EAQI**: Temperature does not appear to correlate strongly with EAQI. High and low temperatures can coincide with a mix of quality readings.
- 30/11/2025, 23:59 **Wind Speed Varies, Limited Correlation with AQI**: Wind speed varies throughout the month. No clear correlation observed between wind speed and significant shifts in air quality (EAQI).
- 30/11/2025, 23:59 **CO Levels Elevated**: CO levels remain elevated, suggesting potential issues in combustion processes. High levels may be associated with industrial activity.
- 30/11/2025, 23:59 **Pressure fluctuations exhibit minimal influence on air quality.**: Fluctuations in atmospheric pressure show limited correlation with the air quality index (EAQI).
- 30/11/2025, 23:59 **Dominance of Very Poor and Extremely Poor PM10 readings**: The presence of PM10 is notably high, with readings frequently categorized as 'Very Poor' to 'Extremely Poor'.
- 30/11/2025, 23:59 **PM1 impacts smaller than PM2.5/PM10,but still substantial**: PM1 readings are smaller than those for PM2.5 and PM10,but still substantial, contributing to overall air pollution, with some 'poor' readings.
- 30/11/2025, 23:59 **Sharp PM100 increase linked to extremely poor air.**: Instances of extremely poor air quality correlate with notable spikes in PM100 levels, revealing significant air pollution sources.
- 07/11/2025, 23:59 **NO_2 exceeding Poor levels**: Levels of nitrogen dioxide (NO_2) consistently exceed the 'Poor' threshold, contributing significantly to the overall air quality issues observed.
- 12/11/2025, 23:59 **O_3 peaking near November 11**: Levels of Ozone (O_3) peaked around November 11, before sharply declining. Levels remained Moderate/Poor.
- 30/11/2025, 23:59 **Battery % is at 100% the entire month**: Battery percentage for the recording sensor is at 100% for the entirety of November.
- 06/11/2025, 23:59 **PM2.5 levels peaking around Nov 5**: PM2.5 levels peaked around November 5, causing 'Very Poor' readings, levels still frequently in 'Poor' ranges.
- 30/11/2025, 23:59 **PM10 levels consistently high across entire dataset.**: PM10 levels consistently register in 'Poor' to 'Very Poor' ranges across entire timeframe of dataset, indicating consistent issue.
- 30/11/2025, 23:59 **PM100 Spikes drive spikes in Extremely Poor**: Extremely poor ratings strongly align with higher values of PM100 readings, compared to PM1, PM2.5, and PM10.
- 30/11/2025, 23:59 **Higher humidity seems to coincide with PM2.5 increase**: Higher humidity seems to correspond with increase in PM2.5, exacerbating negative air quality readings overall.
- 30/11/2025, 23:59 **SO_2 Remains Consistently Safe**: SO_2 levels remain consistently in the 'Good' zone. This is across the entire duration of the dataset. The average is about 2.5 ppb.
- 30/11/2025, 23:59 **CO is generally stable and elevated**: CO is consistently at a high level. This is a potential indicator of a regular polluting process, potentially industrial.
- 30/11/2025, 23:59 **Pressure remains within tight range**: Pressure readings tend to stay within a tight range, with no apparent impact on air quality. These readings appear stable.
- 30/11/2025, 23:59 **Variable Wind Direction**: Wind direction shifts across days. It is important to track the location of pollution.
- 30/11/2025, 23:59 **Extreme Poor rating often due to PM**: Extreme Poor air quality is highly correlated with elevated PM readings. PM2.5 and PM10 levels are high in these cases.
- 30/11/2025, 23:59 **Drop in Temperature Late November**: Sharp decrease in temperature, with air quality remaining mostly poor.

- 30/11/2025, 23:59 **Wind speed varies, limited impact on PM readings**: Wind speed varies. It does not appear to be strongly correlated to PM2.5 and PM10 readings.
- 30/11/2025, 23:59 **Sensor operating normally**: Sensor readings consistent. Appears to be operating normally, and not malfunctioning.

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	207	128.13	0	0	15.8	35.13
02/11/2025, 23:59	203	123.66	0	0	16.82	36.27
03/11/2025, 23:59	207	127.17	0	0	11.55	25.36
04/11/2025, 23:59	206	127.03	0	0	14.38	32.22
05/11/2025, 23:59	236	137.45	0	0	32.35	68.1
06/11/2025, 23:59	215	136.83	0	0	23.92	51.01
07/11/2025, 23:59	101	90.22	0	0	17.52	37.91
08/11/2025, 23:59	204	30.87	53.82	2.52	25.96	47.34
09/11/2025, 23:59	331	24.1	54.99	2.49	57.74	110.05
10/11/2025, 23:59	351	25.31	56.65	2.51	51.29	125.59
11/11/2025, 23:59	434	21.81	64.13	2.5	158.17	509.43
12/11/2025, 23:59	316	25.61	65.85	2.48	54.09	106.22
13/11/2025, 23:59	446	29.42	58.47	2.52	172.56	631.89
14/11/2025, 23:59	407	35.21	56.62	2.5	68.15	219.35
15/11/2025, 23:59	246	30.73	56.71	2.48	36.57	71.71
16/11/2025, 23:59	126	24.1	60.43	2.49	19.75	42.56
17/11/2025, 23:59	93	22.93	66.65	2.48	11.8	37.21
18/11/2025, 23:59	74	25.17	67.19	2.49	12.88	29.74
19/11/2025, 23:59	88	25.27	64.53	2.48	16.24	35.34
20/11/2025, 23:59	81	28.25	58.85	2.49	15.84	32.41
21/11/2025, 23:59	220	27.36	58.67	2.52	29.79	60.08
22/11/2025, 23:59	204	20.94	67.77	2.5	26.03	46.37
23/11/2025, 23:59	202	19.24	72.47	2.51	25.55	46.22
24/11/2025, 23:59	143	20.65	69.72	2.49	22.14	41.17
25/11/2025, 23:59	77	18.27	76.92	2.52	4.81	11.54
26/11/2025, 23:59	69	24.68	65.16	2.47	13.13	27.67
27/11/2025, 23:59	162	23.49	62.73	2.51	23.1	44.32
28/11/2025, 23:59	206	25.57	69.05	2.5	26.58	49.16
29/11/2025, 23:59	368	24.03	66.56	2.52	67.01	123.11
30/11/2025, 23:59	406	20.41	63.9	2.51	108.99	207.77

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	2.37	135.1	100	340.18	68.74	13.54	39.97	1011.57	16.84
02/11/2025, 23:59	4.06	174.86	100	324.69	65.86	14.63	40.87	1008.68	16.26
03/11/2025, 23:59	2.45	251.1	100	302.4	73.52	9.77	28.88	1008.35	13.96
04/11/2025, 23:59	2.45	323.15	100	317.2	74.7	12.49	36.83	1017.58	9.96
05/11/2025, 23:59	1.61	45.41	100	445.63	70.81	28.29	76.26	1017.85	9.42
06/11/2025, 23:59	1.61	123.23	100	373.16	73.15	21.44	57.15	1012.59	9.75
07/11/2025, 23:59	1.73	88.62	100	380.15	72.29	15.68	43.19	1009.68	10.24
08/11/2025, 23:59	2.09	72.24	100	347.61	90.18	23.94	49.11	1006.63	10.69
09/11/2025, 23:59	1.67	199.14	100	342.57	88.26	38.63	118.05	1009.96	10.84
10/11/2025, 23:59	2.93	13.25	100	330.35	91.05	37.94	206.83	1007.87	9.43
11/11/2025, 23:59	1.76	298.43	100	342.99	91.61	60.69	1019.63	1011.38	6.71
12/11/2025, 23:59	1.63	167.41	100	341.21	85.77	43.75	120.07	1015.16	7.86
13/11/2025, 23:59	2	147.78	100	388.58	92.57	66.35	1286.38	1015.9	5.11
14/11/2025, 23:59	2.27	144.65	100	521.17	81.38	37.81	424.36	1012.93	9.42
15/11/2025, 23:59			100	431.47	82.23	33.77	77.05	1007.86	10.11
16/11/2025, 23:59			100	340.58	74.19	17.57	47.66	1005.36	11.84
17/11/2025, 23:59			100	290.85	64.3	8.47	46.3	998.12	14.59
18/11/2025, 23:59			100	310.05	81.4	11.44	34.52	1007.67	7.08
19/11/2025, 23:59			100	314.33	74.74	14.5	39.96	1007.58	6.87
20/11/2025, 23:59			100	351.46	81.62	14.12	35.72	1002	9.92
21/11/2025, 23:59			100	400.73	87.58	26.11	65.45	1001.22	7.97
22/11/2025, 23:59			100	300.98	91.23	24.23	47.51	1007.36	4.1
23/11/2025, 23:59			100	363.69	86.95	23.48	47.76	1009.86	2.41
24/11/2025, 23:59			100	301.52	80.83	20.48	43.21	1006.92	3.54
25/11/2025, 23:59			100	256.24	64.9	3.74	13.48	996.91	11.31
26/11/2025, 23:59			100	389.01	74.86	11.61	30.73	999.45	8.91
27/11/2025, 23:59	4.1	357.01	100	353.31	82.16	21.38	47.53	1009.69	4.07
28/11/2025, 23:59	2.65	358.64	100	298.1	87.74	24.67	51.2	1011.76	3.21
29/11/2025, 23:59	2.28	323.28	100	347.99	91.68	56.43	126.32	1007.69	3.26
30/11/2025, 23:59	2.26	207.49	100	378.59	92.48	71.98	222.14	1007.31	3.49