

Primaria Sacalaz

MONTHLY AIR-QUALITY REPORT

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

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

Parametrii: **EAQI , NO₂ , O₃ , SO₂ , PM_{2.5} , PM₁₀ , Wind Speed , Wind Direction , CO , R. Humidity , PM₁ , PM₁₀₀ , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **402**

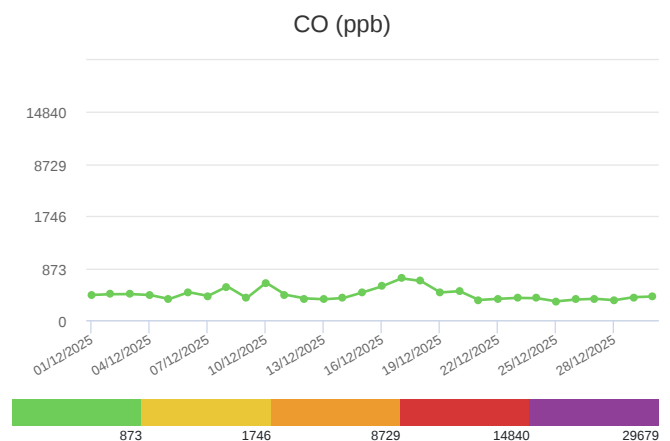
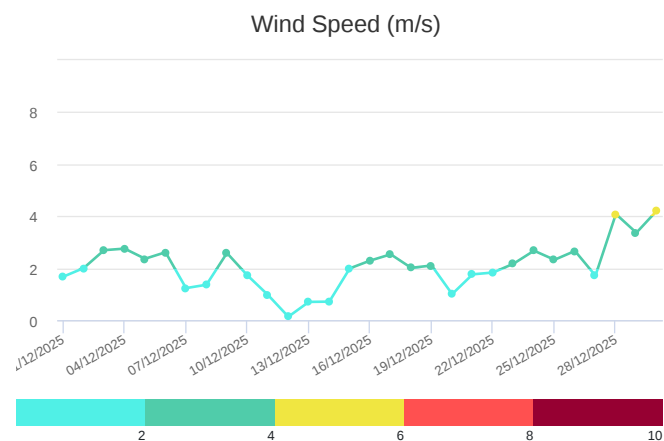
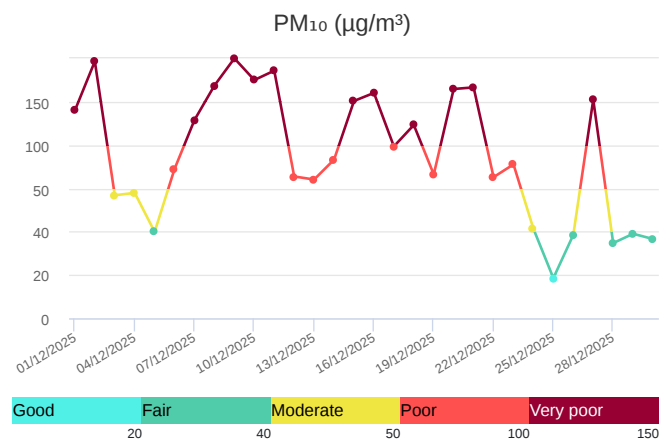
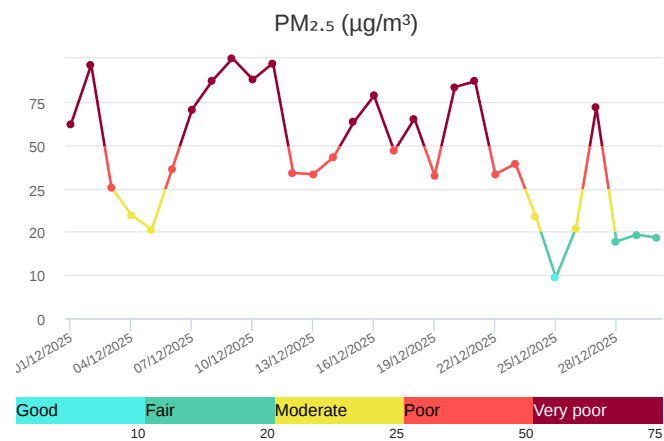
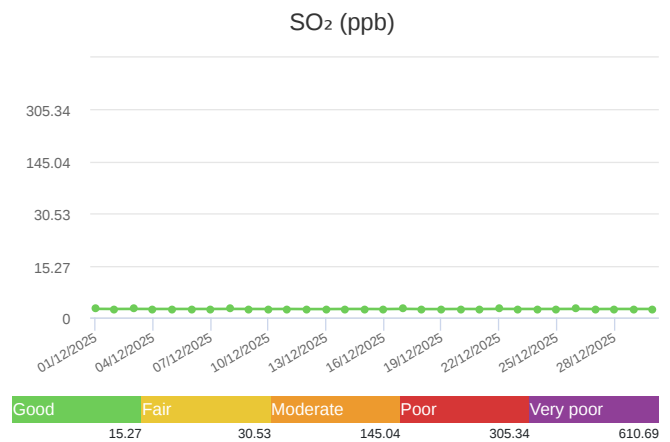
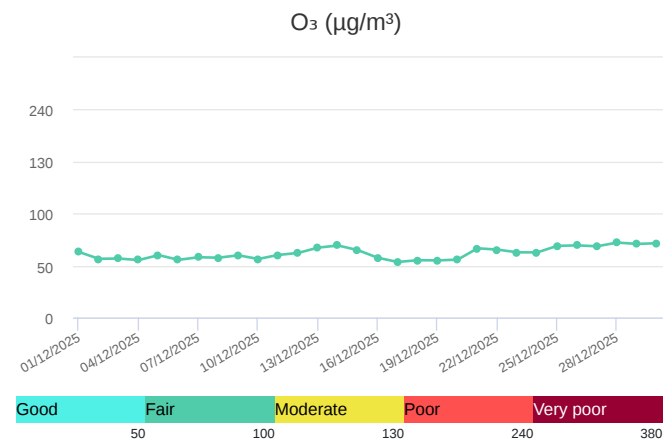
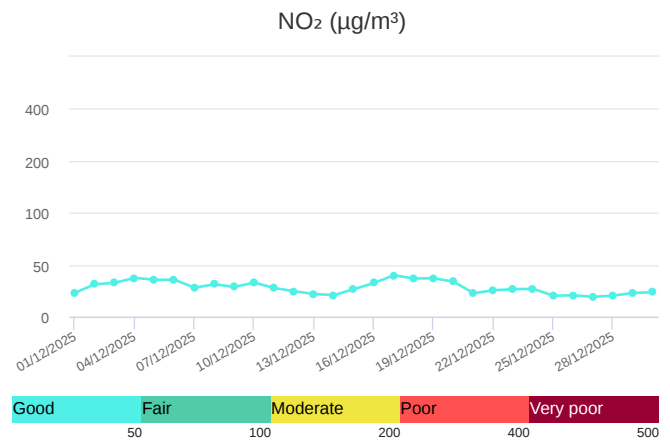
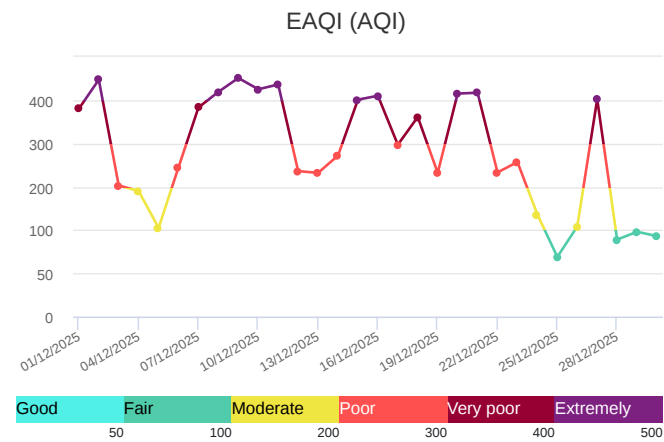
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

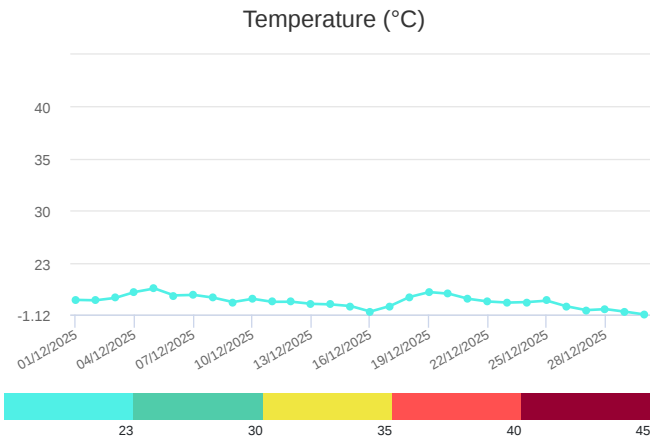
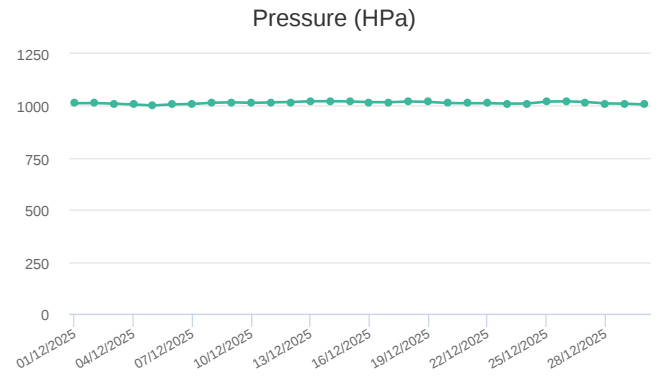
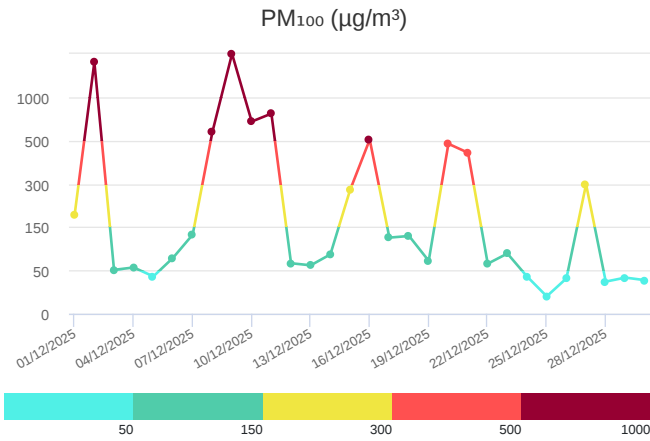
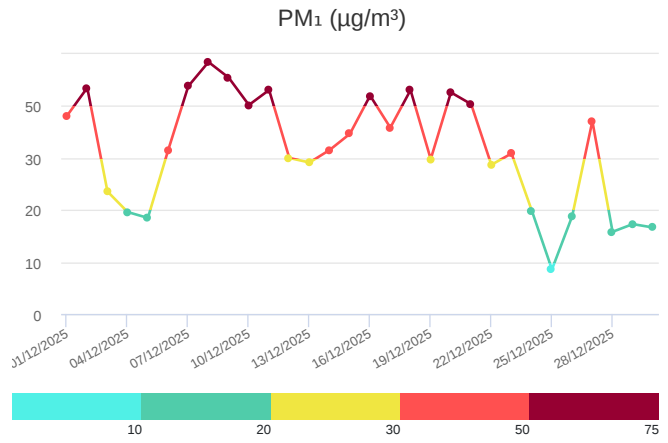
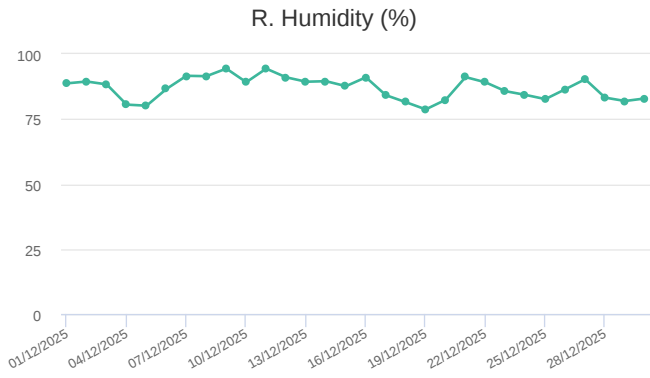
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	402	28.14	61.89	2.5	65.57	172.2
Maximum	451	39.78	72.04	2.53	194.81	681.75
Date	09/12/2025	17/12/2025	28/12/2025	01/12/2025	09/12/2025	09/12/2025
Minimum	69	19.09	53.4	2.48	9.46	18.55
Date	25/12/2025	27/12/2025	17/12/2025	12/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

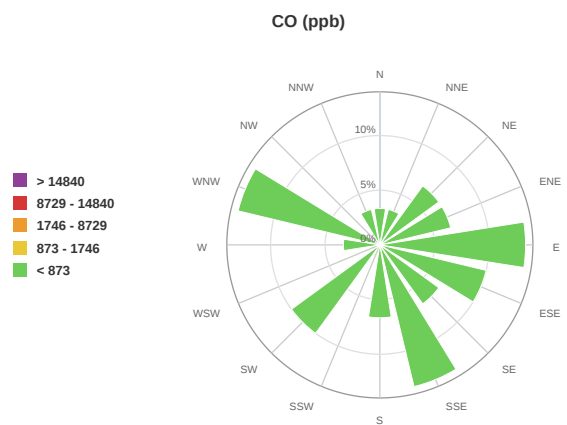
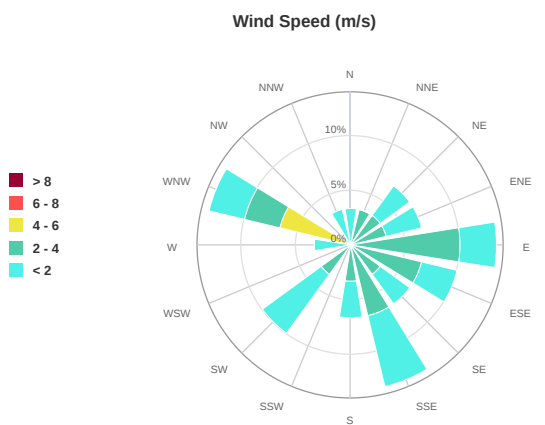
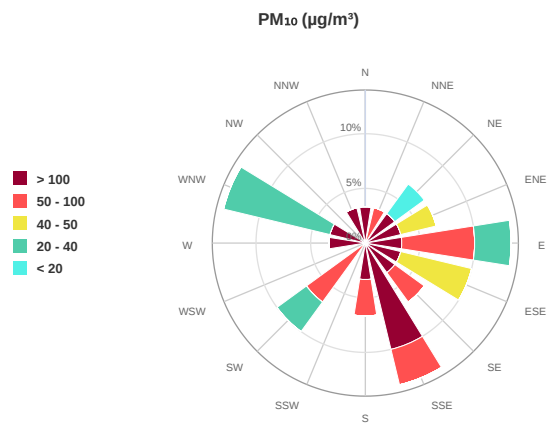
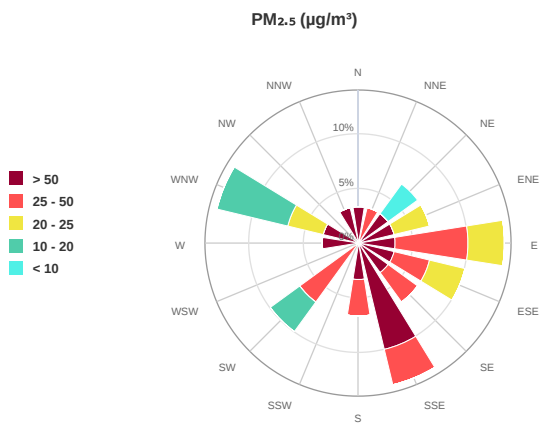
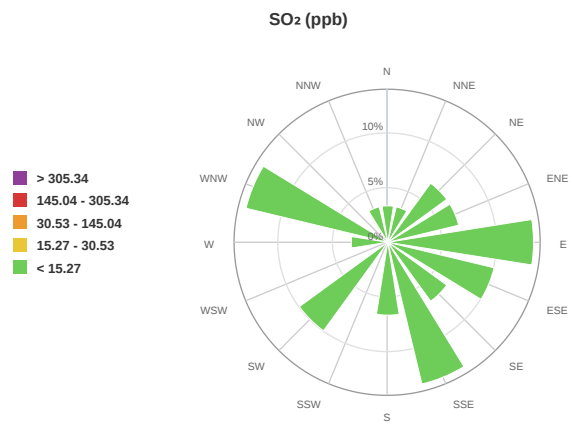
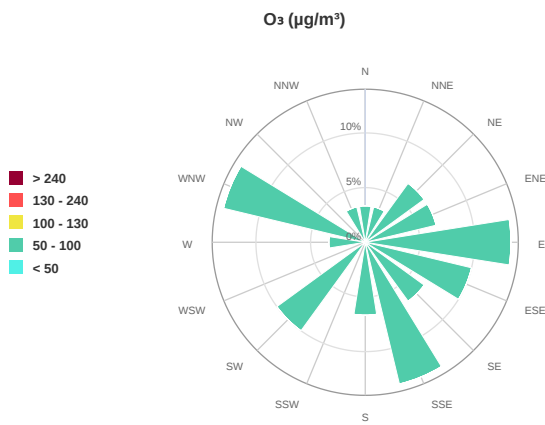
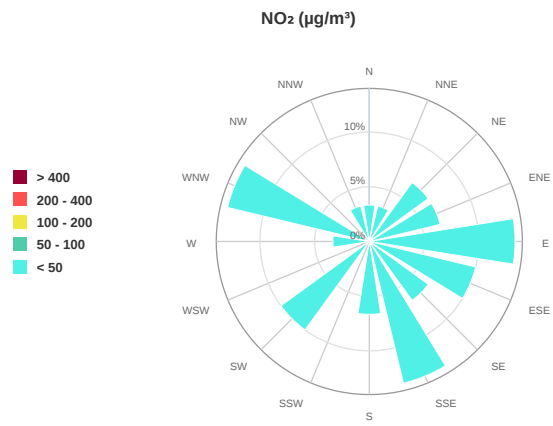
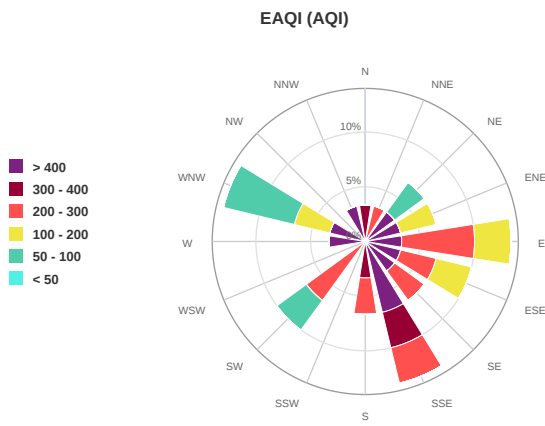
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure hPa	Temperature °C
Average	0.44	100.21	100	431	86.92	37.56	278.07	1014.22	4.97
Maximum	4.21	299.54	100	700.7	94.39	71.15	1402.68	1022.05	10.99
Date	30/12/2025	30/12/2025	01/12/2025	17/12/2025	09/12/2025	08/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.13	221.37	100	315.49	78.7	8.57	20.09	1001.94	-1.12
Date	12/12/2025	12/12/2025	01/12/2025	25/12/2025	19/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

Weekly Average

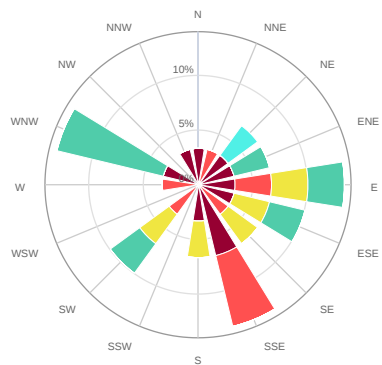




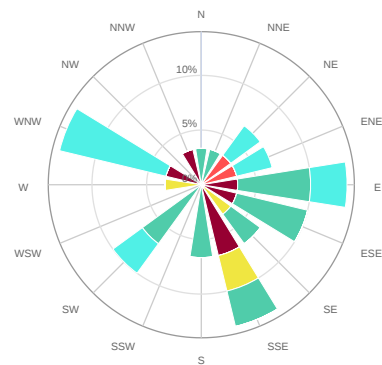
Weekly Average



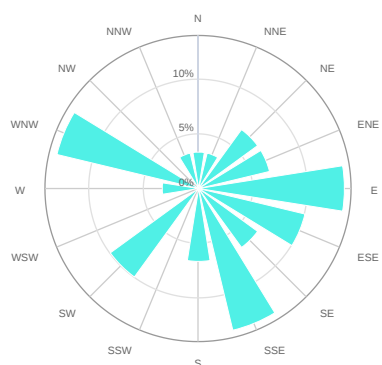
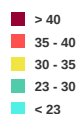
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI frequently reached 'Extremely Poor' levels:** EAQI reached 'Extremely Poor' levels on 9 out of 30 days, indicating significant air quality issues.
- 30/12/2025, 23:59 **High PM_{2.5} impacted overall air quality:** PM_{2.5} levels frequently exceeded the 'Poor' threshold (>25 µg/m³), significantly contributing to the high EAQI values.
- 30/12/2025, 23:59 **PM₁₀ spikes contributed to extremely poor AQI:** The extremely high PM₁₀ values, particularly exceeding 150 µg/m³, directly correlated with the 'Extremely Poor' AQI ratings.
- 30/12/2025, 23:59 **Ozone levels consistently in moderate to poor range:** O₃ levels remained mainly in the 'Moderate' to 'Poor' range, influencing the overall EAQI, with values around 110-140 µg/m³.
- 30/12/2025, 23:59 **NO₂ levels generally within acceptable range:** NO₂ concentration generally remained within 'Good' to 'Moderate' ranges, showing less impact compared to particulate matter.
- 30/12/2025, 23:59 **SO₂ levels consistently low across timeframe:** SO₂ levels remained consistently low, always within 'Good' range (<38.17 ppb), having a minimal effect on overall air quality.
- 30/12/2025, 23:59 **Wind speed variations and air quality relationship:** Higher wind speeds (e.g., >2.5 m/s) did not consistently correlate with improved air quality, suggesting local emission sources.
- 30/12/2025, 23:59 **Temperature influence on air quality:** Lower temperatures (below 5°C) appeared to coincide with some of the worst air quality days, possibly due to increased heating activities.
- 02/12/2025, 23:59 **December 2nd: Peak PM₁₀ concentration observed:** The highest PM₁₀ concentration recorded was 644.98 µg/m³, leading to extremely poor air quality on December 2nd.
- 30/12/2025, 23:59 **Humidity's limited impact on AQI variations:** Relative humidity fluctuated, but no strong correlation between humidity levels and EAQI changes was apparent in the data.
- 25/12/2025, 23:59 **December 25th: Best PM_{2.5} value observed:** The lowest PM_{2.5} concentration of 9.46 µg/m³, categorized as 'Good', was recorded on December 25th.
- 30/12/2025, 23:59 **CO levels show some fluctuations:** CO levels varied from 315.49 ppb to 700.7 ppb. The higher concentration may have a correlation with PM levels.
- 30/12/2025, 23:59 **Pressure variations and air quality:** Pressure varies from 1001.94 hPa to 1022.05 hPa, showing inverse relation with air quality degradation.
- 30/12/2025, 23:59 **Impact of PM₁ on EAQI:** PM₁ values reached as high as 71.15, influencing the overall EAQI and indicating the presence of fine particulate matter.
- 30/12/2025, 23:59 **Predominance of Poor Air Quality Days:** Over the month, a significant number of days were categorized as 'Poor', raising concerns about long-term health impacts.
- 30/12/2025, 23:59 **Impact of Industrial Activities on EAQI:** Elevated pollutant levels are caused by industrial activities. The situation could be improved by mitigating these activities.
- 30/12/2025, 23:59 **Impact of Weather Conditions on pollutant dispersion:** Weather conditions like low wind speed can reduce the dispersion of pollutants, causing localized pollution.
- 30/12/2025, 23:59 **EAQI trend shows fluctuation:** There is no clear upward or downward trend in EAQI, indicating consistent air pollution problem.
- 30/12/2025, 23:59 **No significant impact of battery percentage on AQI:** The continuous 100% battery may not affect air pollutants concentrations.
- 30/12/2025, 23:59 **Higher PM₁₀₀ correlated with AQI category:** Extremely poor air quality corresponds to higher PM₁₀₀ values. It is also influenced by PM_{2.5} and PM₁.
- 09/12/2025, 23:59 **December 9th shows highest PM_{2.5} concentration:** December 9th recorded highest concentration of PM_{2.5}, contributing to extreme poor air quality.
- 16/12/2025, 23:59 **Temperature drop worsens the AQI:** On December 16th, the lowest temperature (0.27°C) corresponds to Extremely poor AQI.
- 30/12/2025, 23:59 **Wind direction variability's effect:** Changes in wind direction may bring pollution from different sources, leading to fluctuations in air quality.
- 17/12/2025, 23:59 **High CO level observation:** Highest CO levels was observed on Dec 17th which may contribute to air quality issues.
- 12/12/2025, 23:59 **December 12th: NO₂ value is the lowest:** The lowest NO₂ concentration recorded was 46.09 µg/m³, leading to moderate air quality on December 12th.
- 28/12/2025, 23:59 **December 28th has the highest wind speed:** December 28th recorded the highest wind speed of 4.08 m/s, still leading to poor air quality.
- 30/12/2025, 23:59 **High EAQI values on several days:** Multiple days recorded EAQI values above 400, indicating severe air pollution events.
- 30/12/2025, 23:59 **Pressure is inversely proportional to EAQI:** Low Pressure is corresponding to High EAQI on multiple days.
- 14/12/2025, 23:59 **December 14th: Lowest NO₂:** December 14th recorded the lowest NO₂ concentration of 39.12 µg/m³, but still leads to poor air quality.

- 30/12/2025, 23:59 **Lowest wind speed and high pollution:** Low wind speed is resulting in higher pollution. Wind is critical factor in dispersal of pollutants

Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
01/12/2025, 23:59	380	23	63.07	2.53	62.05	139.91
02/12/2025, 23:59	447	31.16	56.44	2.5	177.11	644.98
03/12/2025, 23:59	203	32.62	56.71	2.52	25.64	48.4
04/12/2025, 23:59	190	37.33	55.24	2.5	21.89	48.95
05/12/2025, 23:59	105	35.54	60	2.5	20.27	39.91
06/12/2025, 23:59	245	35.45	55.47	2.5	35.97	72.52
07/12/2025, 23:59	383	27.92	57.94	2.5	70.66	128.95
08/12/2025, 23:59	419	31.16	57.49	2.52	133.38	348.18
09/12/2025, 23:59	451	28.59	59.81	2.51	194.81	681.75
10/12/2025, 23:59	425	32.85	56.31	2.49	136.26	415.73
11/12/2025, 23:59	436	27.55	60.17	2.5	181.75	530.88
12/12/2025, 23:59	236	24.49	62.09	2.48	33.91	63.7
13/12/2025, 23:59	232	21.82	67.22	2.48	33.09	60.14
14/12/2025, 23:59	272	20.79	69.23	2.51	43.11	83.17
15/12/2025, 23:59	401	26.5	64.73	2.51	63.23	159.04
16/12/2025, 23:59	410	32.42	57.42	2.48	91.58	257.64
17/12/2025, 23:59	297	39.78	53.4	2.53	46.49	98.39
18/12/2025, 23:59	361	36.73	55.09	2.48	65.2	123.12
19/12/2025, 23:59	232	36.94	54.91	2.48	32.41	66.04
20/12/2025, 23:59	415	33.65	55.65	2.51	115.43	306.02
21/12/2025, 23:59	417	22.61	66.57	2.49	131.46	325.5
22/12/2025, 23:59	233	25.42	65.29	2.52	33.16	62.89
23/12/2025, 23:59	257	26.52	62.65	2.5	39.23	77.67
24/12/2025, 23:59	136	26.75	62.67	2.51	21.8	40.65
25/12/2025, 23:59	69	20.13	68.89	2.5	9.46	18.55
26/12/2025, 23:59	108	20.67	69.34	2.52	20.42	38.52
27/12/2025, 23:59	402	19.09	68.49	2.49	71.58	174.39
28/12/2025, 23:59	89	20.28	72.04	2.51	17.75	34.72
29/12/2025, 23:59	98	22.82	70.75	2.5	19.29	39.02
30/12/2025, 23:59	93	23.61	71.47	2.5	18.62	36.6

Alti parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.67	167.17	100	422.34	88.71	46.29	194.43	1012.19	5.69
02/12/2025, 23:59	2	109.32	100	434.38	89.42	58.77	1325.1	1013.28	5.5
03/12/2025, 23:59	2.69	114.8	100	436.93	88.31	23.55	51.35	1010.39	6.61
04/12/2025, 23:59	2.75	104.6	100	421.3	80.53	19.6	56.8	1006	9.36
05/12/2025, 23:59	2.36	82.91	100	353.87	80.12	18.47	43.11	1001.94	10.99
06/12/2025, 23:59	2.61	12.83	100	469.2	86.58	32.91	79.06	1006.79	7.75
07/12/2025, 23:59	1.23	358.11	100	406.17	91.62	59.52	132.74	1009.08	8
08/12/2025, 23:59	1.36	330.82	100	565.04	91.47	71.15	596.65	1014.69	6.73
09/12/2025, 23:59	2.58	157.59	100	371.42	94.39	63.63	1402.68	1016.87	4.68
10/12/2025, 23:59	1.72	167.06	100	627.68	89.16	50.47	718.22	1014.12	6.2
11/12/2025, 23:59	0.97	294.78	100	425.88	94.37	57.7	809.77	1016.47	4.79
12/12/2025, 23:59	0.13	221.37	100	364.82	91.04	30	66.61	1018.22	4.82
13/12/2025, 23:59	0.7	181.66	100	349.78	89.34	29.13	61.83	1021.8	3.84
14/12/2025, 23:59	0.71	221.9	100	371.01	89.54	33.09	86.98	1022.05	3.59
15/12/2025, 23:59	1.99	127.88	100	465.96	87.63	39.3	278.03	1020.94	2.81
16/12/2025, 23:59	2.29	82.33	100	568.75	91.04	54.97	509.37	1017.67	0.27
17/12/2025, 23:59	2.53	146.46	100	700.7	84.17	41.67	125.67	1017.12	2.83
18/12/2025, 23:59	2.01	175.04	100	656.62	81.48	57.65	129.48	1020.9	7.04
19/12/2025, 23:59	2.1	128.74	100	464.2	78.7	29.78	72.1	1018.71	9.29
20/12/2025, 23:59	1	67.75	100	485.5	82.38	56.53	484.64	1013.27	8.56
21/12/2025, 23:59	1.76	51.83	100	337.66	91.12	50.9	443.28	1012.33	6.16
22/12/2025, 23:59	1.83	96.4	100	356.94	89.11	28.69	65.53	1012.67	4.93
23/12/2025, 23:59	2.17	86.36	100	372.93	85.7	31.74	89.03	1010.43	4.42
24/12/2025, 23:59	2.67	57.01	100	367.46	84.28	19.9	42.93	1010.86	4.67
25/12/2025, 23:59	2.32	49.38	100	315.49	82.65	8.57	20.09	1020.23	5.33
26/12/2025, 23:59	2.66	301.01	100	345.09	86.43	18.79	40.81	1021.55	2.68
27/12/2025, 23:59	1.71	264.43	100	357.8	90.3	44.19	298.19	1018.38	0.93
28/12/2025, 23:59	4.08	301.92	100	334.24	83.22	15.8	37.1	1011.3	1.4
29/12/2025, 23:59	3.36	234.46	100	384.84	81.92	17.28	41.71	1010.06	0.19
30/12/2025, 23:59	4.21	299.54	100	396.01	82.91	16.63	38.77	1006.42	-1.12

Oizom will not be responsible for Environmental Data accuracy once Validated