

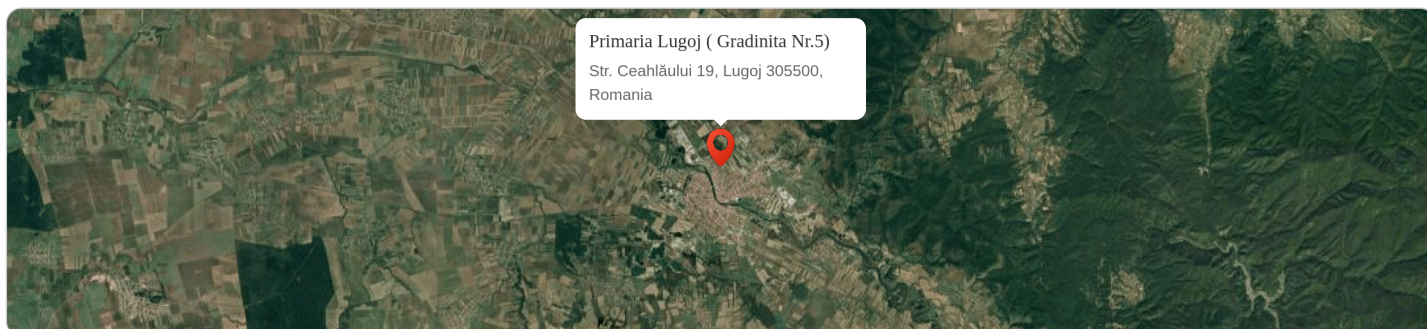
Primaria Lugoj (Gradinita Nr.5)

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Lugoj (Gradinita Nr.5)**
Locația dispozitivului: **Str. Ceahlăului 19, Lugoj 305500, 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): **219**

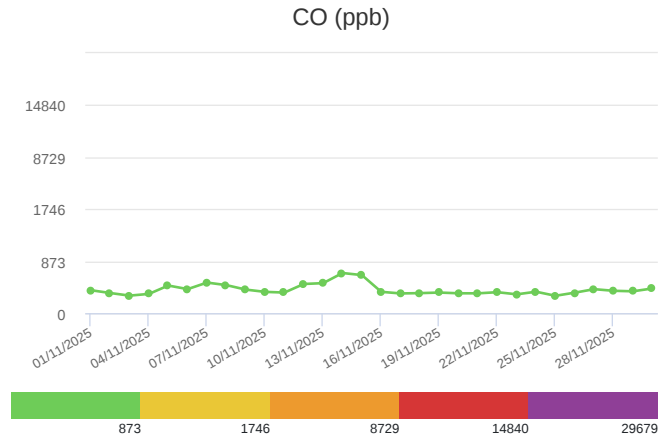
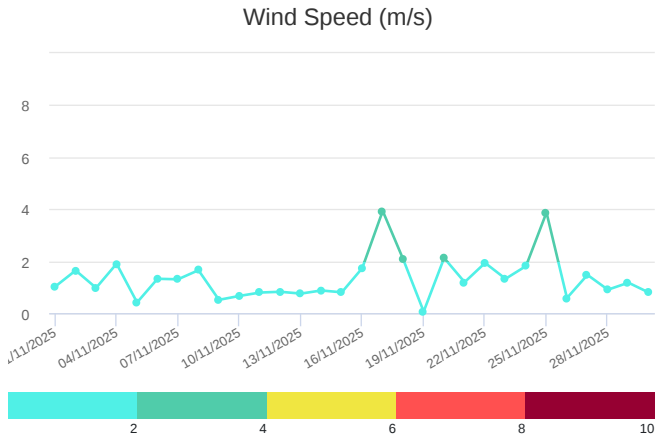
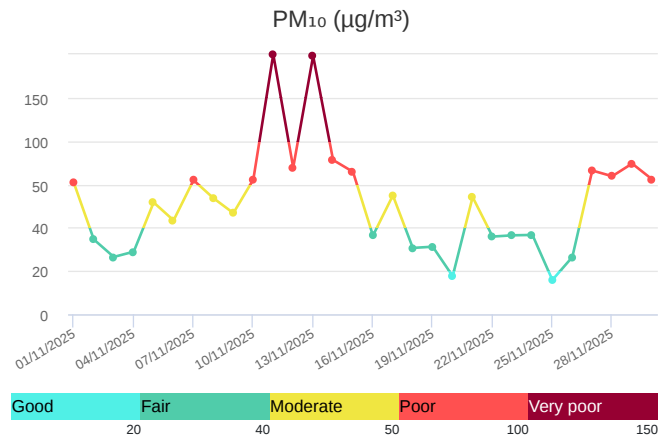
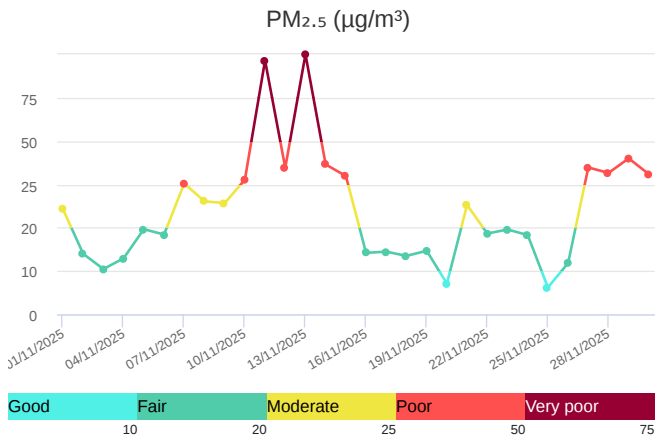
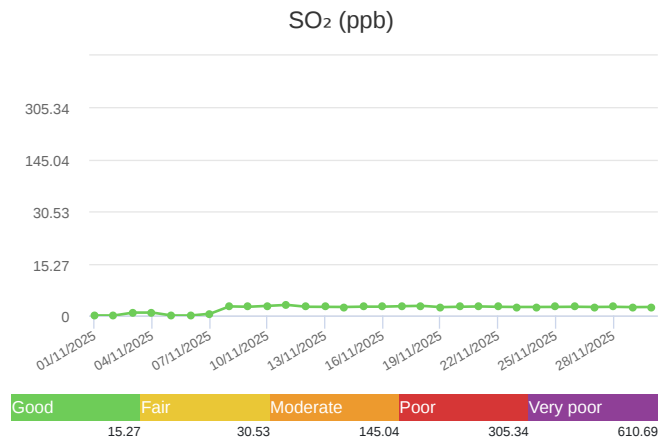
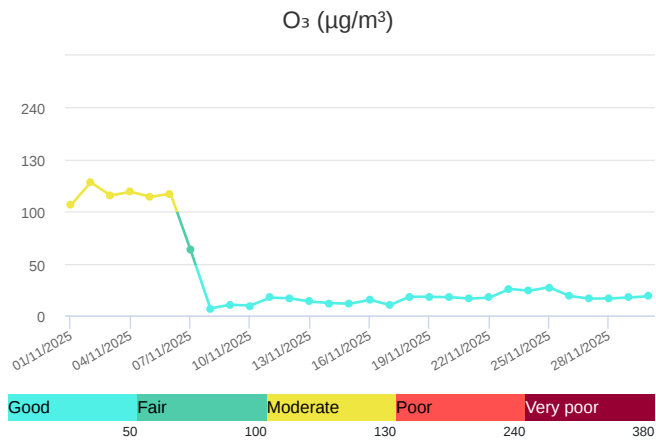
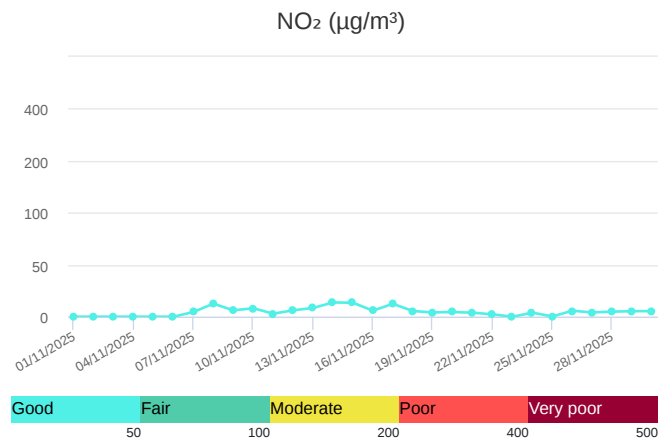
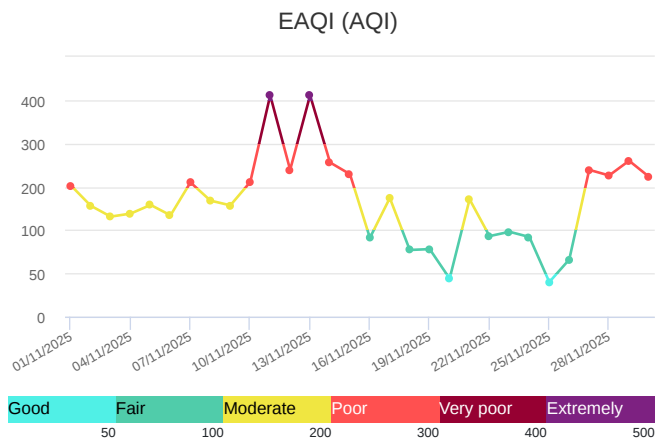
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

	EAQI AQI	NO ₂ µg/m³	O ₃ µg/m³	SO ₂ ppb	PM _{2.5} µg/m³	PM ₁₀ µg/m³
Average	219	2.68	36.55	2.03	26.22	59.44
Maximum	411	13.69	116.84	3.12	97.07	264.72
Date	11/11/2025	14/11/2025	02/11/2025	11/11/2025	13/11/2025	11/11/2025
Minimum	40	0	6.73	0	6.19	15.86
Date	25/11/2025	01/11/2025	08/11/2025	02/11/2025	25/11/2025	25/11/2025

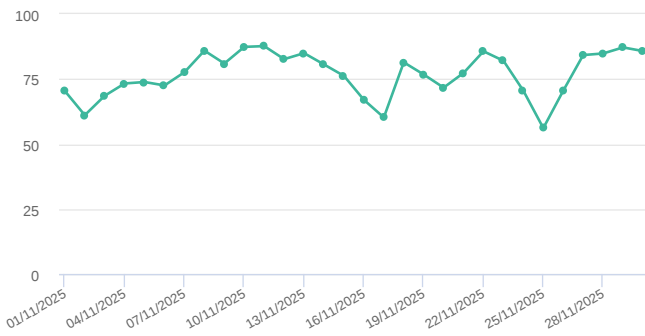
Prezentare generală zilnică: Alți parametri

	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
Average	0.49	160.07	100	394.27	76.82	19.72	78.35	1004.11	9.54
Maximum	3.93	179.45	100	673.23	87.65	42.5	460.68	1013.4	17.46
Date	17/11/2025	17/11/2025	01/11/2025	14/11/2025	11/11/2025	11/11/2025	11/11/2025	05/11/2025	02/11/2025
Minimum	0.06	91.19	100	290.92	56.11	4.35	22.74	993.63	3.51
Date	19/11/2025	19/11/2025	01/11/2025	25/11/2025	25/11/2025	25/11/2025	25/11/2025	25/11/2025	23/11/2025

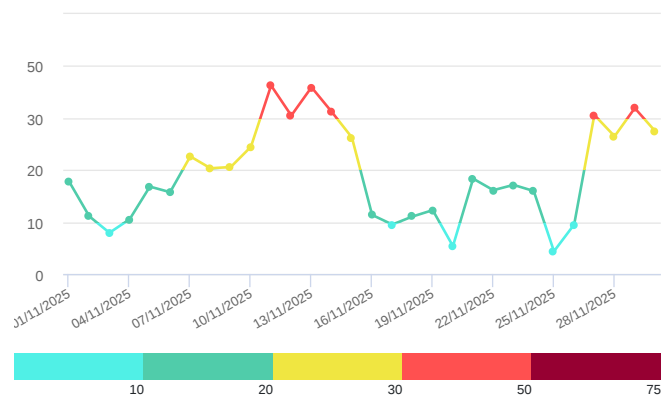
Weekly Average



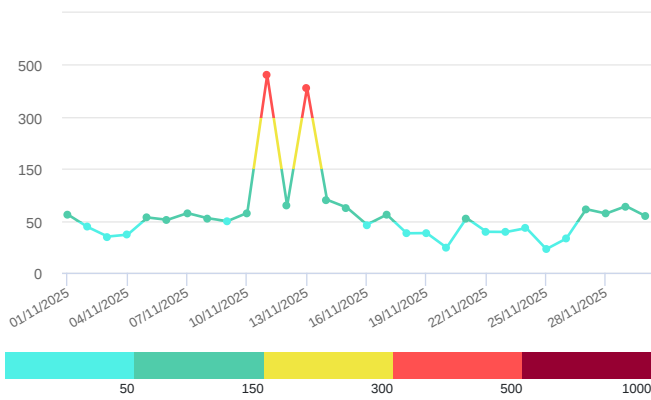
R. Humidity (%)



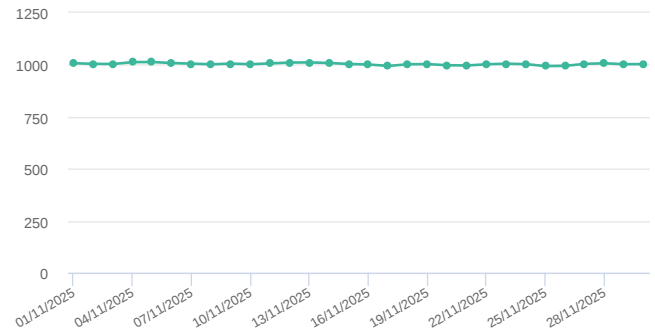
PM₁ (µg/m³)



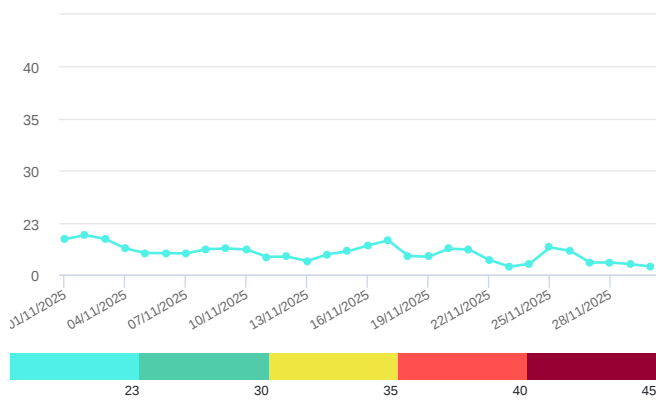
PM₁₀₀ (µg/m³)



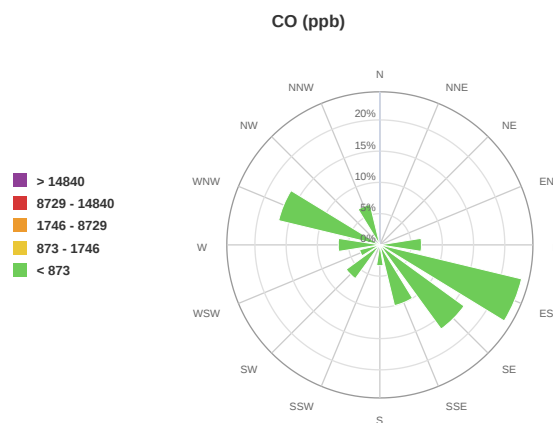
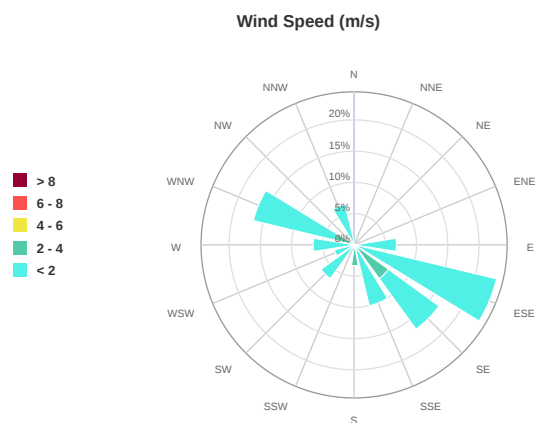
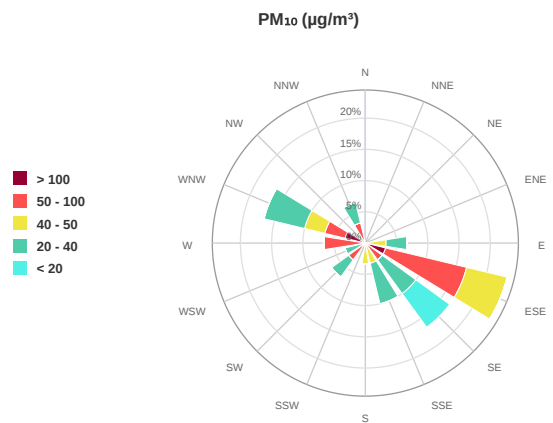
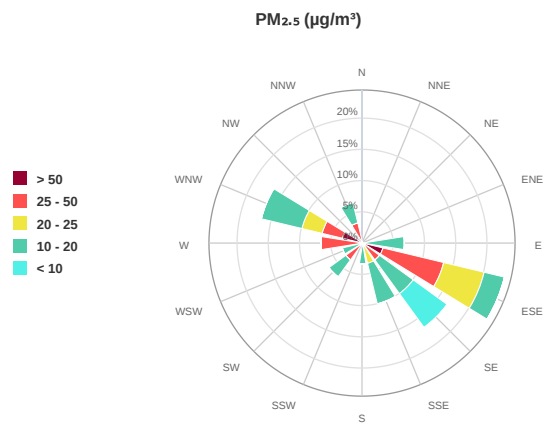
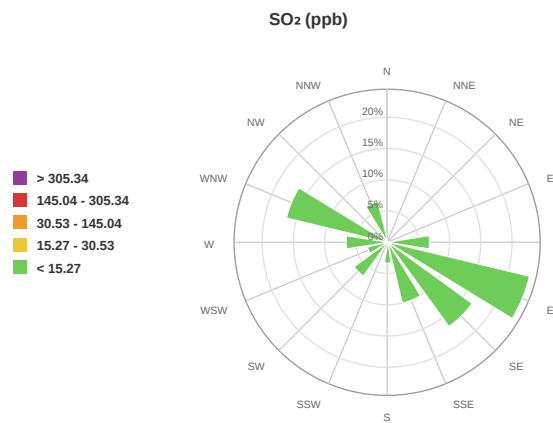
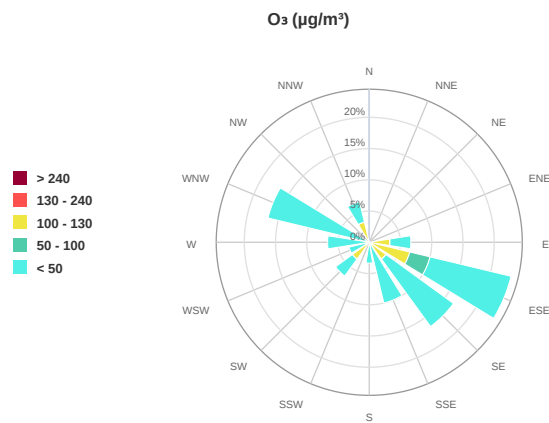
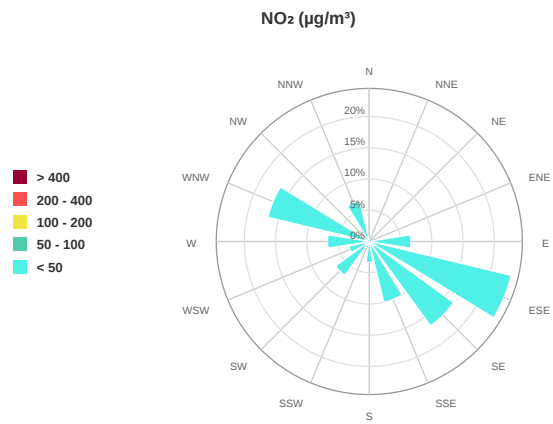
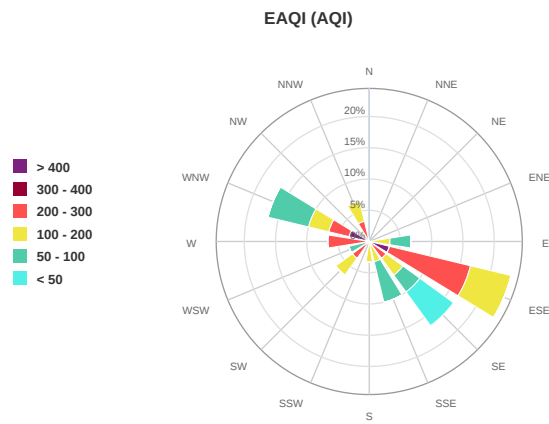
Pressure (hPa)



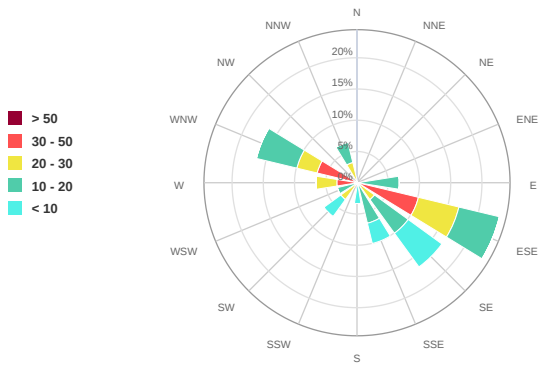
Temperature (°C)



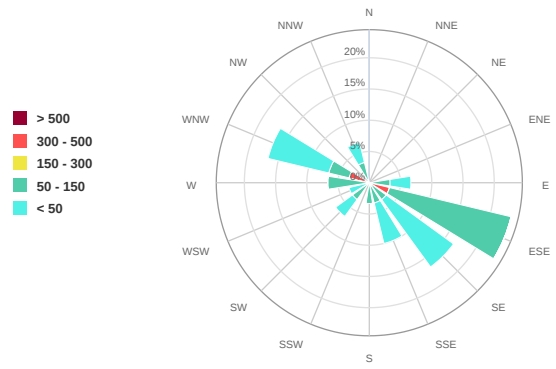
Weekly Average



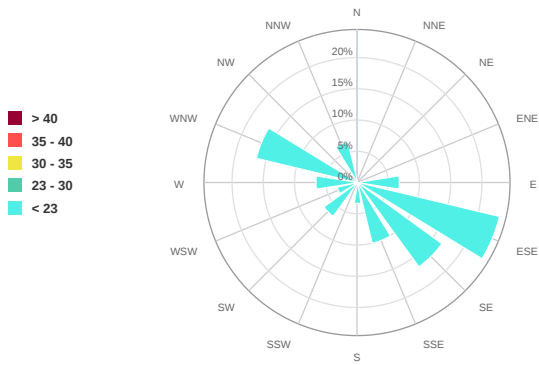
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 10/11/2025, 23:59 **Predominantly Poor Air Quality in Early November 2025**: The majority of days in early November show 'Poor' air quality based on EAQI, indicating a consistent pollution issue. EAQI values range predominantly from 200-300.
- 07/11/2025, 23:59 **Ozone Concentration Peaks in early November drive poor EAQI**: Elevated ozone levels (O_3) appear to be a key driver of poor air quality during the early days of November. Concentrations exceed $193 \mu\text{g}/\text{m}^3$
- 13/11/2025, 23:59 **Extremely Poor Air Quality Episodes Mid-November**: Two days in mid-November registered 'Extremely Poor' air quality ($\text{EAQI} > 400$), signaling severe pollution spikes that needed immediate attention.
- 13/11/2025, 23:59 **PM_{2.5} Concentration Spikes During Extremely Poor Air Quality**: During periods of 'Extremely Poor' air quality, PM_{2.5} concentrations exceeded $90 \mu\text{g}/\text{m}^3$, well above the 'Extremely Poor' threshold, significantly impacting respiratory health.
- 20/11/2025, 23:59 **Improvement in Air Quality Mid-November**: There's a noticeable improvement in air quality around mid-November with EAQI values falling into 'Fair' and 'Good' zones, representing a period of cleaner air.
- 30/11/2025, 23:59 **SO₂ Levels Consistently Low**: Sulfur dioxide (SO_2) levels remain consistently low across the entire period, staying within the 'Good' zone, indicating minimal SO_2 pollution.
- 30/11/2025, 23:59 **NO₂ Levels Generally Within Acceptable Ranges**: Nitrogen dioxide (NO_2) levels are generally low, mostly falling within the 'Good' to 'Fair' ranges. Most of the time NO_2 levels stay under $25 \mu\text{g}/\text{m}^3$.
- 30/11/2025, 23:59 **Temperature fluctuations impact air quality**: Periods of lower temperatures seem to coincide with poorer air quality, potentially due to increased emissions from heating sources.
- 30/11/2025, 23:59 **Wind speed correlates with improved air quality**: Higher wind speeds frequently correlate with improved air quality, likely due to better pollutant dispersion.
- 30/11/2025, 23:59 **PM₁₀ Exceeds Moderate Threshold**: PM₁₀ concentrations frequently exceed the 'Moderate' threshold of $50 \mu\text{g}/\text{m}^3$, contributing to overall air quality degradation. Highest Value: $264.72 \mu\text{g}/\text{m}^3$
- 30/11/2025, 23:59 **High Humidity Correlates with Poor Air Quality**: Higher relative humidity (%) values often coincide with periods of poorer air quality, possibly due to increased particle hygroscopic growth.
- 30/11/2025, 23:59 **PM₁ exhibits Similar Trend as PM_{2.5}**: PM₁ concentrations follow a similar trend to PM_{2.5}, suggesting common sources and behaviors for these fine particulate pollutants.
- 30/11/2025, 23:59 **Influence of Wind Direction**: Wind direction shows varied influence; understanding dominant directions during pollution events can help pinpoint pollutant sources. Values between 90-150 degrees are more frequent.
- 20/11/2025, 23:59 **Good Air Quality on November 20th**: November 20th stands out as the only day with 'Good' air quality, showcasing significantly lower pollutant concentrations.
- 30/11/2025, 23:59 **PM_{2.5} Contribution to EAQI**: PM_{2.5} levels frequently drive the EAQI into 'Poor' categories. PM_{2.5} is often above $25 \mu\text{g}/\text{m}^3$, impacting the overall air quality.
- 30/11/2025, 23:59 **Variable Air Quality**: The air quality shows significant day-to-day variability, fluctuating between 'Good', 'Fair', 'Moderate', 'Poor' and 'Extremely Poor'.
- 30/11/2025, 23:59 **Elevated CO levels drive poor air quality**: Elevated CO levels potentially drive poor air quality. CO levels are often above 300 ppb during periods of poor air quality.
- 30/11/2025, 23:59 **October's Data is Required**: No trend can be analyzed. Data is only available for the month of November 2025, October data required to check the trend
- 13/11/2025, 23:59 **Lowest Air Quality Found Mid-November**: Lowest Air quality was reported on Mid-November at EAQI:411 with category 'Extremely poor'
- 30/11/2025, 23:59 **Influence of Pressure on Air Quality**: Air Pressure shows varied influence; understanding pressure level during pollution events can help understand how pollutants are suspended in the air
- 20/11/2025, 23:59 **Fair Air Quality on November 20th**: November 20th stands out as the only day with 'Fair' air quality for all parameters except O_3 (Good)
- 30/11/2025, 23:59 **EAQI equals EAQI (AQI)**: EAQI and EAQI (AQI) are always the same in the records. This can be optimized by removing duplicated field.
- 30/11/2025, 23:59 **Battery Remains Constant**: Battery level remains constant at 100% across the entire period which is quite unrealistic. Check battery sensor.
- 30/11/2025, 23:59 **Consistent Values of SO₂**: SO_2 concentrations are approximately around 2.5 ppb across the month which is quite consistent.
- 30/11/2025, 23:59 **O₃ is above the Extremely poor category**: O_3 levels frequently drive the EAQI into 'Poor' categories. O_3 is above $193.56251814648607 \mu\text{g}/\text{m}^3$.
- 30/11/2025, 23:59 **PM_{2.5} frequently reaches poor category**: PM_{2.5} levels frequently drive the EAQI into 'Poor' categories. PM_{2.5} is often above $25 \mu\text{g}/\text{m}^3$.
- 17/11/2025, 23:59 **Highest Wind Speed**: Wind Speed was highest on November 17, at a reading of 3.93
- 30/11/2025, 23:59 **CO Levels are Consistently High**: CO levels are consistently high throughout the month of November, potentially indicating an issue.

- 30/11/2025, 23:59 **Correlation Between PM₁₀₀ and Other PM Readings:** PM₁₀₀ values seem to correlate with other PM readings, indicating an effect between the particulates.
- 30/11/2025, 23:59 **Pressure and Temperature Relationships:** There appears to be an inverse correlation between temperature and pressure in the environment. The temperature affects pressure.

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
01/11/2025, 23:59	203	0	103.64	0.01	22.12	51.55
02/11/2025, 23:59	156	0	116.84	0	13.95	34.53
03/11/2025, 23:59	131	0	109.23	0.85	10.44	26.49
04/11/2025, 23:59	138	0	111.41	0.86	12.93	28.9
05/11/2025, 23:59	158	0	108.45	0	19.64	45.82
06/11/2025, 23:59	134	0	110.32	0	18.42	41.68
07/11/2025, 23:59	210	4.57	63.36	0.52	25.48	54.8
08/11/2025, 23:59	168	12.56	6.73	2.67	23.04	46.8
09/11/2025, 23:59	157	6.1	10.42	2.57	22.83	43.36
10/11/2025, 23:59	211	8.09	9.51	2.82	27.63	55.56
11/11/2025, 23:59	411	2.9	17.18	3.12	93.95	264.72
12/11/2025, 23:59	239	6.14	16.55	2.56	34.58	69.36
13/11/2025, 23:59	411	8.4	13.41	2.53	97.07	260.59
14/11/2025, 23:59	256	13.69	11.98	2.5	36.48	78.1
15/11/2025, 23:59	229	13.42	11.31	2.6	29.81	64.4
16/11/2025, 23:59	91	5.81	15.06	2.59	14.18	36.31
17/11/2025, 23:59	174	12.39	10.03	2.73	14.46	47.44
18/11/2025, 23:59	77	5.44	18.1	2.84	13.48	30.65
19/11/2025, 23:59	78	4.11	17.94	2.46	14.66	31.19
20/11/2025, 23:59	44	4.44	17.63	2.57	7.1	17.63
21/11/2025, 23:59	171	3.87	16.31	2.66	22.62	47.05
22/11/2025, 23:59	93	2.24	17.16	2.55	18.64	35.88
23/11/2025, 23:59	98	0	25.56	2.51	19.57	36.46
24/11/2025, 23:59	92	3.85	23.87	2.51	18.29	36.64
25/11/2025, 23:59	40	0.24	27.2	2.52	6.19	15.86
26/11/2025, 23:59	66	5.7	18.78	2.56	11.83	26.42
27/11/2025, 23:59	239	4.17	16.32	2.51	34.72	65.96
28/11/2025, 23:59	226	4.83	16.33	2.55	31.58	59.35
29/11/2025, 23:59	260	5.29	17.37	2.46	39.97	73.96
30/11/2025, 23:59	223	5.36	18.51	2.5	30.83	55.81

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
01/11/2025, 23:59	1.02	115	100	384.25	70.38	17.79	61.91	1007.65	15.68
02/11/2025, 23:59	1.64	131.23	100	337.35	61.08	11.09	43.96	1004.67	17.46
03/11/2025, 23:59	0.97	223.02	100	293.49	68.56	7.92	34.78	1003.97	15.76
04/11/2025, 23:59	1.9	331.75	100	321.9	73.28	10.53	36.66	1012.72	11.49
05/11/2025, 23:59	0.41	101.12	100	462.85	73.84	16.8	56.31	1013.4	9.52
06/11/2025, 23:59	1.32	116.79	100	402.51	72.52	15.73	51.75	1008.49	9.48
07/11/2025, 23:59	1.3	101.86	100	512.07	77.62	22.61	64.7	1005.55	9.39
08/11/2025, 23:59	1.65	104.05	100	469.89	85.91	20.33	54.99	1002.4	11.23
09/11/2025, 23:59	0.51	289.68	100	394.3	80.96	20.56	49.58	1005.66	11.52
10/11/2025, 23:59	0.66	340.07	100	356.05	87.36	24.45	65.08	1002.88	11.09
11/11/2025, 23:59	0.79	293.07	100	345.02	87.65	42.5	460.68	1006.77	7.85
12/11/2025, 23:59	0.82	115.35	100	489.11	82.64	30.94	78.89	1010.81	7.94
13/11/2025, 23:59	0.75	121.7	100	502.65	84.94	41.83	411.88	1011.46	5.99
14/11/2025, 23:59	0.87	113.61	100	673.23	80.59	32.37	90.44	1008.68	9
15/11/2025, 23:59	0.8	138.24	100	637.94	76.19	26.25	75.29	1003.9	10.27
16/11/2025, 23:59	1.73	149.22	100	356.9	66.98	11.35	46.32	1001.42	12.87
17/11/2025, 23:59	3.93	179.45	100	330	60.2	9.51	61.84	994.5	15.09
18/11/2025, 23:59	2.07	294.7	100	335.29	81.41	11.05	37.96	1002.68	8.18
19/11/2025, 23:59	0.06	91.19	100	345.18	76.73	12.27	38.15	1003.19	7.89
20/11/2025, 23:59	2.12	130.24	100	332.36	71.68	5.35	24.17	997.99	11.45
21/11/2025, 23:59	1.19	158.62	100	331.58	77.34	18.33	55.21	996.71	11.07
22/11/2025, 23:59	1.93	287.36	100	351.23	85.66	16.11	39.38	1002.58	6.46
23/11/2025, 23:59	1.32	257.8	100	315.5	82.02	17.13	39.25	1005.34	3.51
24/11/2025, 23:59	1.81	134.42	100	359.06	70.47	15.95	42.97	1003.16	4.77
25/11/2025, 23:59	3.87	127.93	100	290.92	56.11	4.35	22.74	993.63	12
26/11/2025, 23:59	0.58	161.64	100	343.21	70.51	9.51	32.83	995.05	10.5
27/11/2025, 23:59	1.47	287.73	100	401.4	84.21	31.16	72.28	1004.71	5.3
28/11/2025, 23:59	0.9	272.08	100	374.14	84.82	26.48	63.89	1007.1	5.35
29/11/2025, 23:59	1.17	264.33	100	365.83	87.15	33.8	78.12	1002.99	4.63
30/11/2025, 23:59	0.79	215.74	100	413.03	85.75	27.5	58.59	1003.25	3.51

Oizom will not be responsible for Environmental Data accuracy once Validated