

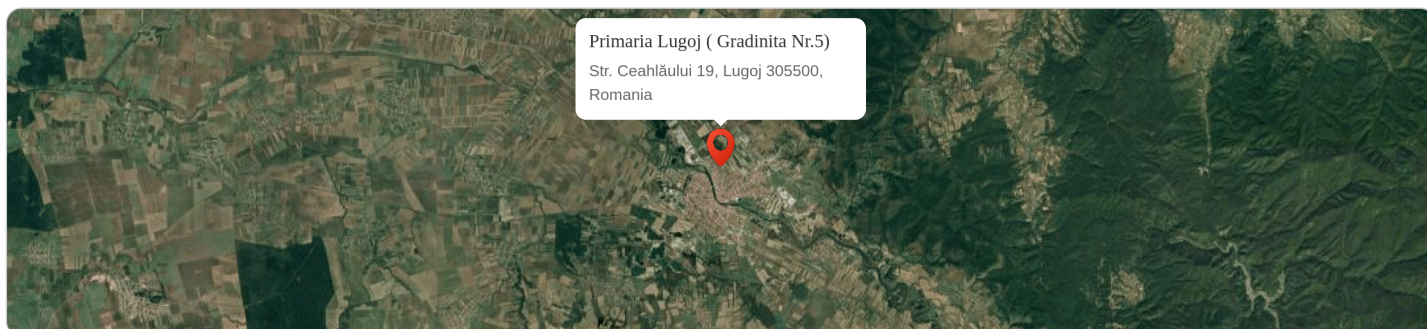
Primaria Lugoj (Gradinita Nr.5)

MONTHLY AIR-QUALITY REPORT

Timp de la: **01/12/2025, 00:00**
Timp până la: **30/12/2025, 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): **259**

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

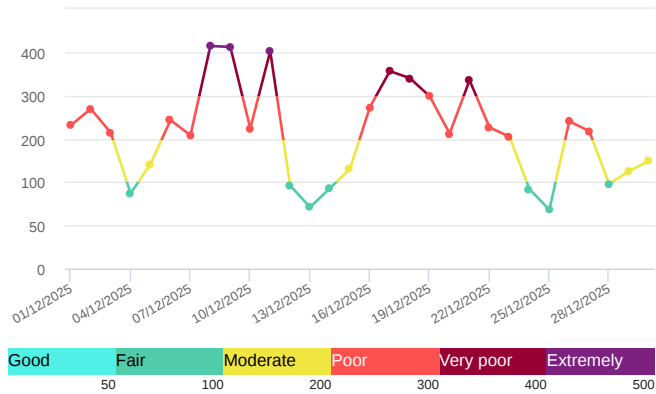
	EAQI AQI	NO ₂ µg/m³	O ₃ µg/m³	SO ₂ ppb	PM _{2.5} µg/m³	PM ₁₀ µg/m³
Average	259	8.56	16.77	2.5	34.67	79.6
Maximum	414	26.32	26.34	2.58	92.86	293.58
Date	08/12/2025	17/12/2025	28/12/2025	14/12/2025	08/12/2025	08/12/2025
Minimum	68	0.05	5.98	2.46	13	27.26
Date	25/12/2025	13/12/2025	19/12/2025	04/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

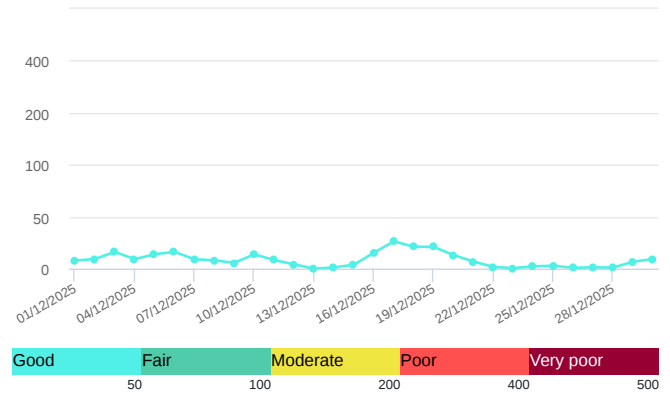
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ μg/m ³	PM ₁₀₀ μg/m ³	Pressure hPa	Temperature °C
Average	0.64	126.88	100	537.46	80.29	27.16	110.22	1009.76	5.6
Maximum	2.51	113.34	100	1362.28	88.43	54.55	554.5	1017.49	12.73
Date	04/12/2025	04/12/2025	01/12/2025	17/12/2025	11/12/2025	17/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.03	357.42	100	345.37	66.35	11.28	32.04	997.69	-1.04
Date	14/12/2025	14/12/2025	01/12/2025	13/12/2025	05/12/2025	25/12/2025	13/12/2025	05/12/2025	30/12/2025

Weekly Average

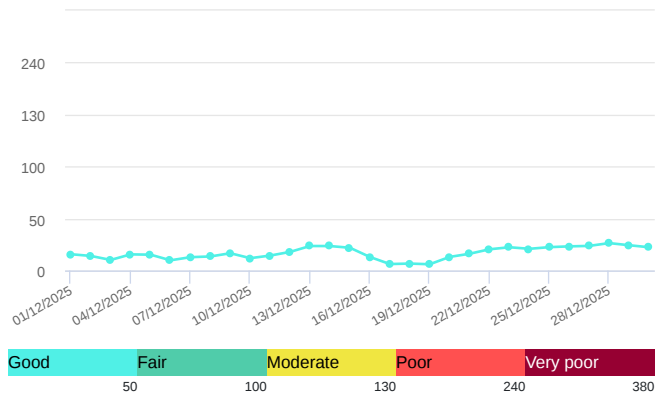
EAQI (AQI)



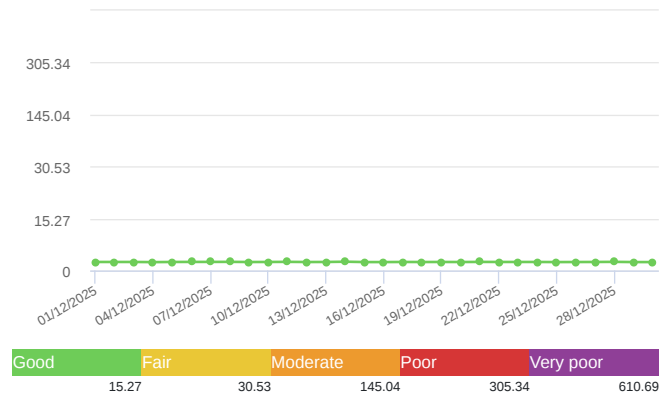
NO₂ (µg/m³)



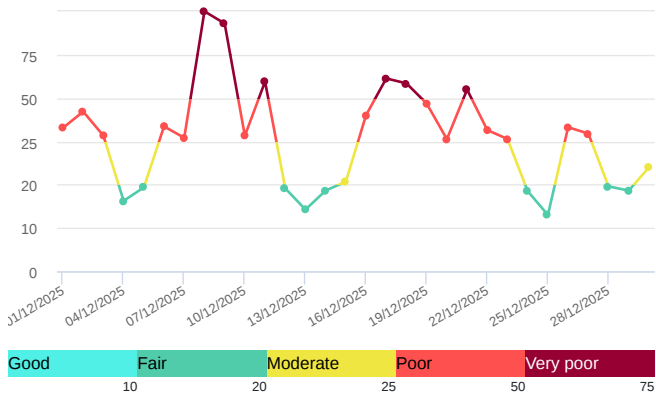
O₃ (µg/m³)



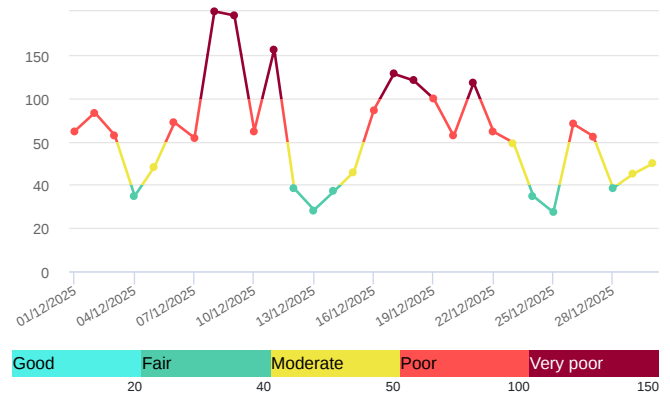
SO₂ (ppb)



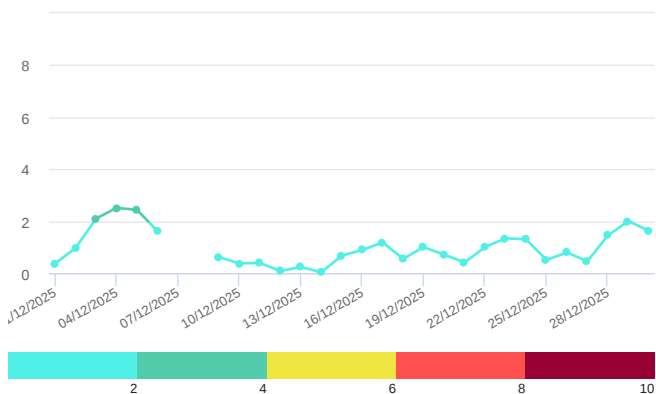
PM_{2.5} (µg/m³)



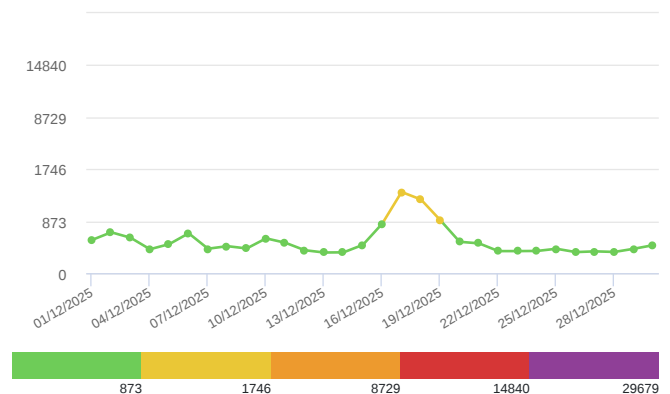
PM₁₀ (µg/m³)

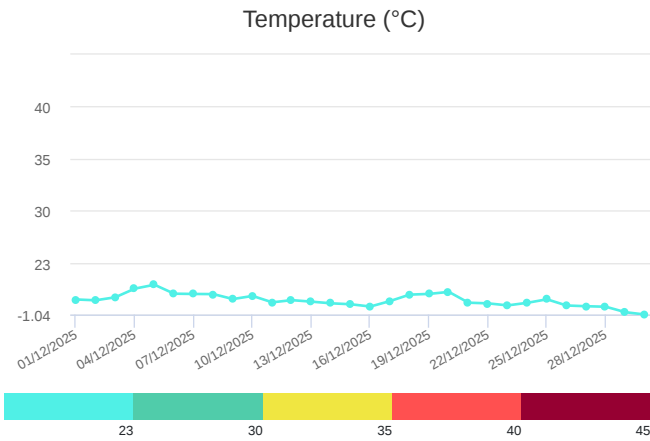
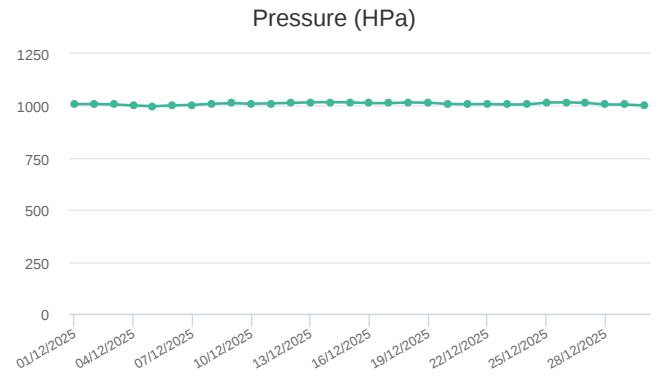
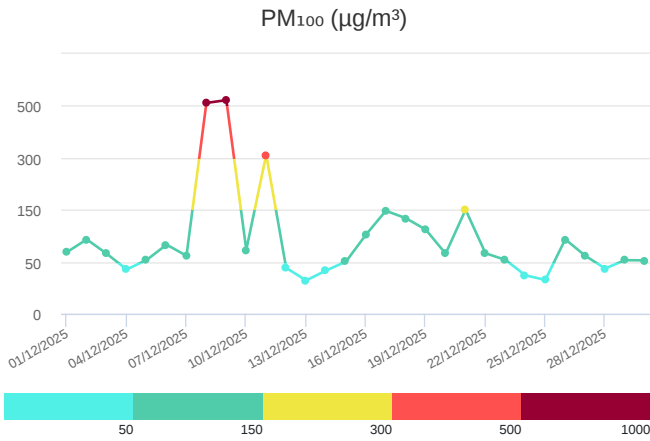
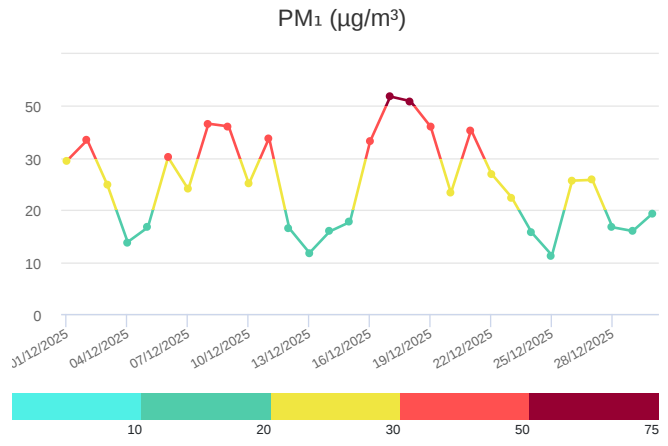
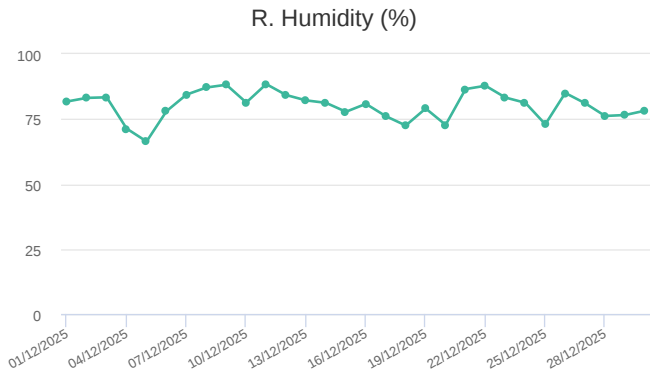


Wind Speed (m/s)

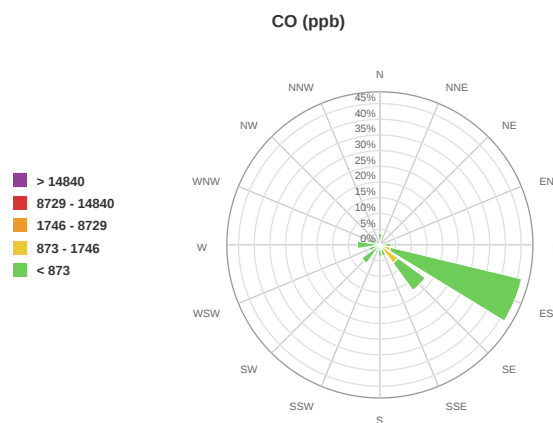
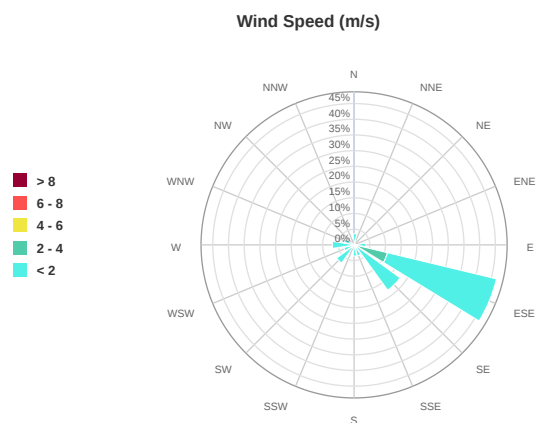
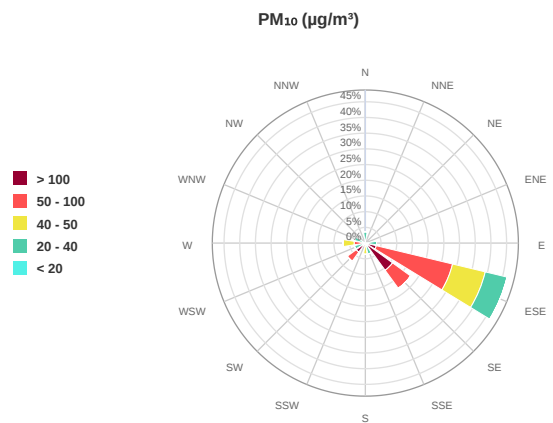
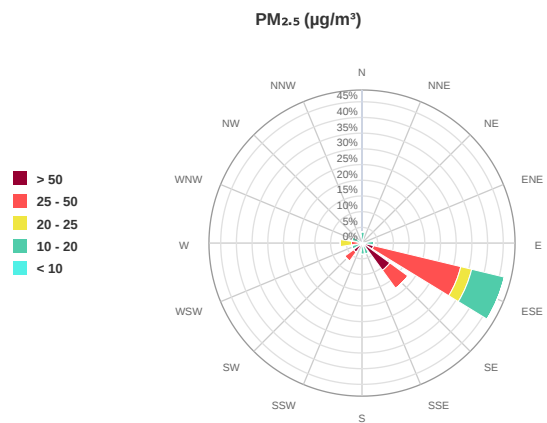
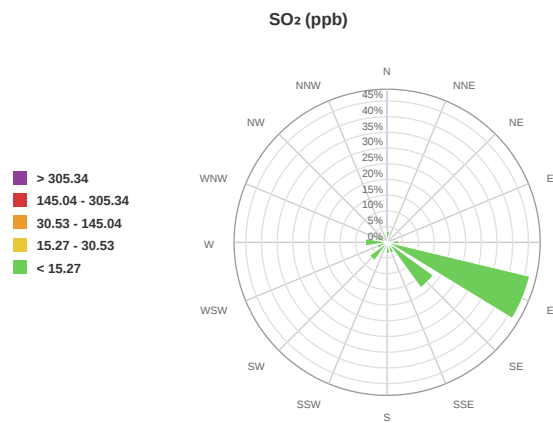
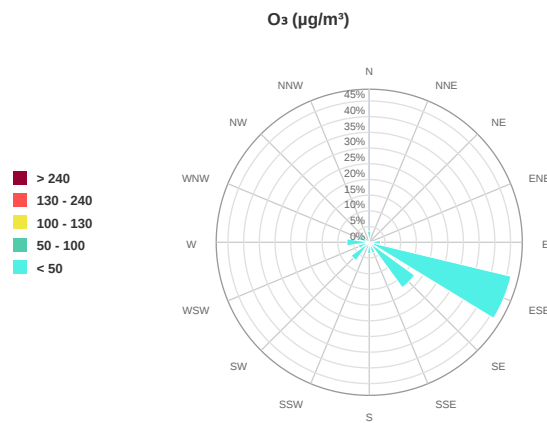
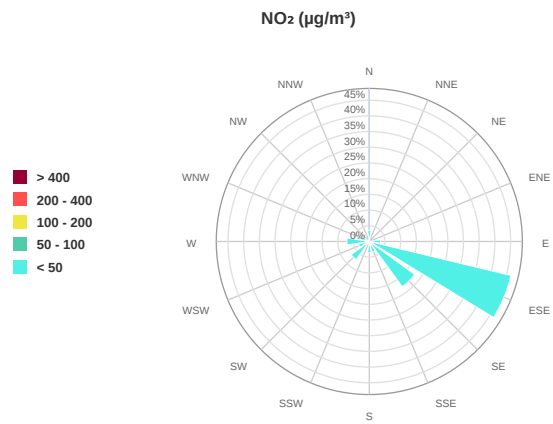
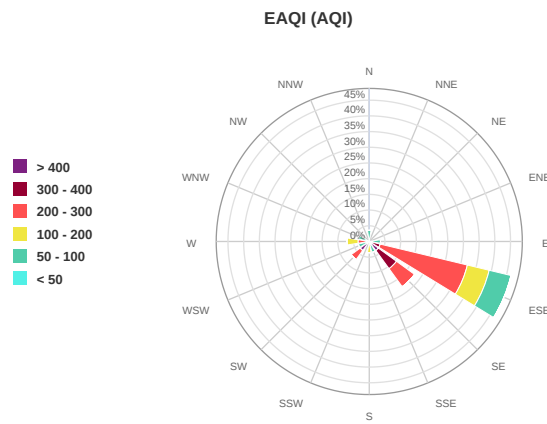


CO (ppb)

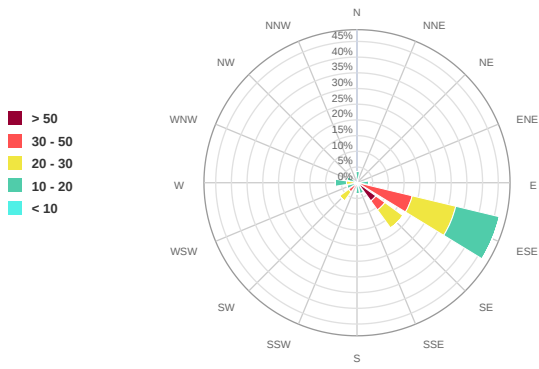




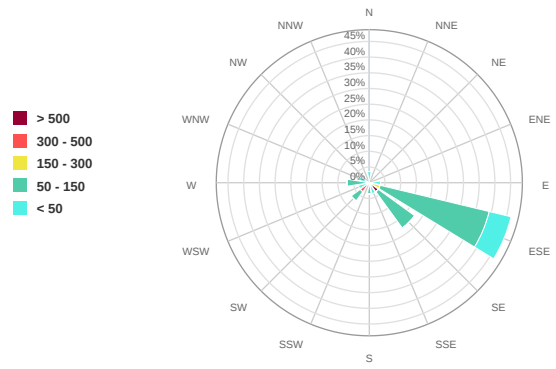
Weekly Average



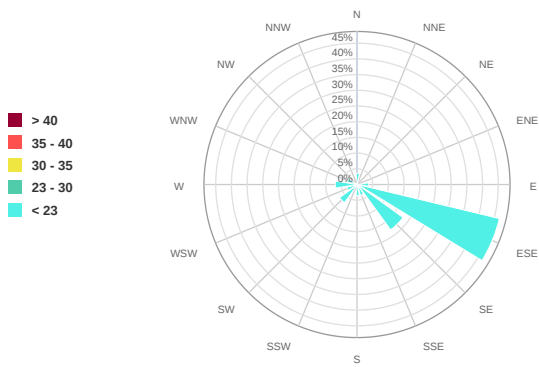
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **EAQI shows fluctuating air quality conditions.**: EAQI values fluctuate significantly, ranging from 'Fair' to 'Extremely Poor', indicating unstable air quality during the observed period.
- 30/12/2025, 23:59 **PM_{2.5} levels frequently exceed safe limits.**: PM_{2.5} concentrations often surpass the 'Good' and 'Fair' threshold (10-20 µg/m³), reaching 'Poor' and 'Very Poor' levels, posing potential health risks.
- 30/12/2025, 23:59 **PM₁₀ shows frequent exceedance of safe limits.**: PM₁₀ values exhibit frequent spikes above the 'Good' and 'Fair' ranges (20-40 µg/m³), with many instances reaching 'Poor' or 'Very Poor' air quality levels.
- 11/12/2025, 23:59 **Highest EAQI values observed in early and mid-December.**: The highest EAQI values, indicating the worst air quality, appear concentrated in the first half of December with 'Extremely Poor' ratings.
- 28/12/2025, 23:59 **Lowest NO₂ levels occur during fair AQI days.**: Lower concentrations of NO₂ are generally observed on days when the EAQI is categorized as 'Fair', suggesting an inverse relationship.
- 30/12/2025, 23:59 **O₃ levels generally in the 'Good' to 'Fair' range.**: Ozone (O₃) concentrations are mostly within the 'Good' to 'Fair' ranges, rarely exceeding moderate levels throughout the period.
- 30/12/2025, 23:59 **SO₂ remains consistently low across the period.**: Sulfur dioxide (SO₂) levels are consistently low, remaining within the 'Good' range throughout the reported timeframe, posing minimal concern.
- 30/12/2025, 23:59 **Wind speed variation impacts pollutant dispersion.**: Varying wind speeds, from near-calm to 2.51 m/s, could influence pollutant dispersion, contributing to fluctuations in air quality.
- 30/12/2025, 23:59 **Humidity appears high during poor air quality days.**: High relative humidity levels often coincide with days of 'Poor' or 'Very Poor' air quality, possibly due to increased particle suspension.
- 30/12/2025, 23:59 **CO levels correlate with EAQI increases.**: Higher carbon monoxide (CO) levels tend to be associated with elevated EAQI values, indicating a possible link between CO emissions and overall air pollution.
- 30/12/2025, 23:59 **Temperature Inversion may affect pollutant concentration.**: Lower temperature may trap pollutants near the ground, as seen on days with lower temperatures when pollution levels are higher.
- 30/12/2025, 23:59 **Pressure appears to be inversely related to EAQI.**: There is an inverse relationship between the surface pressure and the pollution levels with lower air pressure typically leading to increase in pollution.
- 30/12/2025, 23:59 **PM₁₀ levels correlate with PM_{2.5} levels.**: There is a correlation between PM₁₀ and PM_{2.5} levels, suggesting that measures to reduce PM_{2.5} would reduce PM₁₀ levels.
- 30/12/2025, 23:59 **PM₁ levels correlate with PM_{2.5} levels.**: There is a correlation between PM₁ and PM_{2.5} levels, suggesting that measures to reduce PM_{2.5} would reduce PM₁ levels.
- 30/12/2025, 23:59 **PM₁₀₀ levels correlate with PM_{2.5} levels.**: There is a correlation between PM₁₀₀ and PM_{2.5} levels, suggesting that measures to reduce PM_{2.5} would reduce PM₁₀₀ levels.
- 08/12/2025, 23:59 **Highest PM_{2.5} level recorded mid-December.**: The highest PM_{2.5} concentration of 92.86 µg/m³, categorized as 'Extremely Poor', was recorded on 2025-12-08T21:59:59.000Z.
- 30/12/2025, 23:59 **Direction of wind appears to be stable.**: Wind direction is relatively stable throughout the period, staying within the 92 to 360 degree range.
- 30/12/2025, 23:59 **NO₂ levels are relatively low.**: Nitrogen dioxide (NO₂) levels are relatively low, remaining mostly within the 'Good' to 'Fair' range.
- 30/12/2025, 23:59 **PM₁₀ values are almost always over 20 µg/m³.**: PM₁₀ values exceed 20 µg/m³ almost everyday, indicating that PM₁₀ pollution is a major contributor to poor air quality.
- 30/12/2025, 23:59 **CO concentrations fluctuate significantly.**: Carbon monoxide levels vary considerably, ranging from 345.37 ppb to 1362.28 ppb, showing a wide range of emission events.
- 11/12/2025, 23:59 **Extremely Poor AQI correlates with high PM₁₀ values.**: The AQI being in the 'Extremely Poor' range correlates with high particulate matter (PM₁₀) values.
- 11/12/2025, 23:59 **Lower temperature correlates with high PM_{2.5} values.**: The days with lower temperatures generally correlated with increase in particulate matter (PM_{2.5}) values.
- 14/12/2025, 23:59 **Good AQI correlates with low PM_{2.5} values.**: The AQI being in the 'Fair' range correlates with low particulate matter (PM_{2.5}) values.
- 14/12/2025, 23:59 **Good AQI correlates with low PM₁₀ values.**: The AQI being in the 'Fair' range correlates with low particulate matter (PM₁₀) values.
- 11/12/2025, 23:59 **Higher humidity correlates with poor AQI.**: Higher humidity levels seem to be present when the AQI is poor or extremely poor, affecting air quality.
- 30/12/2025, 23:59 **Wind speed is generally low.**: Most of the wind speed observations were below 1.5m/s, indicating low wind conditions may cause a pollutant build-up.
- 30/12/2025, 23:59 **NO₂ remains below Poor Levels despite variable AQI.**: Despite variance in the air quality index, the levels of NO₂ have always been within the 'Good' to 'Moderate' range.

- 30/12/2025, 23:59 **O3 remains within range despite variable AQI:** Despite variance in the air quality index, the levels of O3 have always been within the 'Good' to 'Moderate' range.
- 30/12/2025, 23:59 **SO2 remains low despite variable AQI:** Despite variance in the air quality index, the levels of SO2 have always been within the 'Good' range.
- 11/12/2025, 23:59 **Extremely Poor AQI days are on separate days:** The AQI index jumps from Fair to Extremely Poor in nonconsecutive days, possibly affected by sporadic emission events and atmospheric changes

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	231	7.82	15.67	2.51	32.8	62
02/12/2025, 23:59	269	9.29	14.02	2.5	42.15	83.09
03/12/2025, 23:59	214	16.14	10.13	2.5	28.23	57.04
04/12/2025, 23:59	87	9.21	15.52	2.46	16.26	34.77
05/12/2025, 23:59	142	13.92	15.19	2.51	19.36	44.2
06/12/2025, 23:59	243	16.11	9.82	2.52	33.61	71.72
07/12/2025, 23:59	208	9.14	12.78	2.52	27.05	53.98
08/12/2025, 23:59	414	7.95	13.48	2.53	92.86	293.58
09/12/2025, 23:59	412	5.69	16.61	2.49	87.87	280.06
10/12/2025, 23:59	224	13.81	11.86	2.51	28.2	62.16
11/12/2025, 23:59	402	8.28	14.35	2.54	59.48	167.17
12/12/2025, 23:59	96	4.13	17.9	2.49	19.14	38.29
13/12/2025, 23:59	71	0.05	23.53	2.5	14.25	28.32
14/12/2025, 23:59	93	1.15	23.5	2.58	18.63	36.94
15/12/2025, 23:59	130	3.89	21.83	2.47	20.35	42.98
16/12/2025, 23:59	273	15.39	12.99	2.48	40.12	86.49
17/12/2025, 23:59	356	26.32	6.22	2.5	61.31	127.88
18/12/2025, 23:59	340	21.16	6.65	2.49	58.44	120.13
19/12/2025, 23:59	298	20.93	5.98	2.51	46.79	99.22
20/12/2025, 23:59	212	13.06	13.06	2.49	26.24	56.15
21/12/2025, 23:59	335	6.84	16.11	2.52	54.86	117.5
22/12/2025, 23:59	226	1.69	20.4	2.5	31.5	61.11
23/12/2025, 23:59	205	0.56	22.37	2.51	26.36	49.69
24/12/2025, 23:59	92	2.25	20.85	2.5	18.5	34.66
25/12/2025, 23:59	68	2.86	22.46	2.48	13	27.26
26/12/2025, 23:59	240	0.79	23.2	2.49	33.13	70.13
27/12/2025, 23:59	218	1.42	23.64	2.5	29.48	55.88
28/12/2025, 23:59	98	1.06	26.34	2.53	19.61	38.42
29/12/2025, 23:59	125	6.76	24.32	2.48	18.62	42.47
30/12/2025, 23:59	149	9.24	22.35	2.47	21.99	44.89

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	0.37	119.22	100	556.46	81.72	29.49	68.49	1007.96	5.92
02/12/2025, 23:59	0.97	108.53	100	685.29	83.12	36.9	92.99	1008.97	5.55
03/12/2025, 23:59	2.1	119.77	100	593.98	83.34	24.77	65.51	1006.23	6.95
04/12/2025, 23:59	2.51	113.34	100	401.14	71.31	13.83	42.6	1001.84	10.96
05/12/2025, 23:59	2.43	111.01	100	487.16	66.35	16.66	53.38	997.69	12.73
06/12/2025, 23:59	1.61	119.87	100	668.79	78.03	30.25	82.88	1002.27	8.59
07/12/2025, 23:59			100	409.31	84.38	23.99	61.61	1004.33	8.49
08/12/2025, 23:59			100	451.99	87.11	43.18	527.27	1009.93	8.41
09/12/2025, 23:59	0.62	126.07	100	414.15	88.18	42.16	554.5	1012.66	6.12
10/12/2025, 23:59	0.37	139.34	100	583.51	81.34	25.02	72.97	1009.83	7.56
11/12/2025, 23:59	0.39	233.65	100	508.92	88.43	37.68	311.59	1011.9	4.6
12/12/2025, 23:59	0.08	250.18	100	384.38	84.22	16.47	44.12	1013.63	5.62
13/12/2025, 23:59	0.24	152.05	100	345.37	82.16	11.74	32.04	1017.1	4.91
14/12/2025, 23:59	0.03	357.42	100	348.51	81.21	15.87	41.56	1017.49	4.15
15/12/2025, 23:59	0.67	107.94	100	474	77.78	17.69	50.33	1016.32	3.73
16/12/2025, 23:59	0.89	110.68	100	830.53	80.82	36.4	101.93	1012.97	2.67
17/12/2025, 23:59	1.18	129.11	100	1362.28	76.08	54.55	148.03	1012.58	5.18
18/12/2025, 23:59	0.55	133.72	100	1236.51	72.5	52.32	133.86	1016.47	8.16
19/12/2025, 23:59	1	109.09	100	888.58	79.05	42	111.89	1014.61	8.51
20/12/2025, 23:59	0.71	127.62	100	525.34	72.74	23.28	65.66	1008.81	9.45
21/12/2025, 23:59	0.41	114.19	100	499.41	86.51	40.76	150.12	1007.89	4.43
22/12/2025, 23:59	1	111.54	100	369.53	87.79	26.99	66.26	1008.4	4.12
23/12/2025, 23:59	1.34	112.26	100	369.35	83.25	22.45	53.6	1006.19	3.19
24/12/2025, 23:59	1.3	92	100	371.64	81.23	15.65	36.97	1006.5	4.4
25/12/2025, 23:59	0.51	114.22	100	408.58	72.96	11.28	32.54	1015.49	6.01
26/12/2025, 23:59	0.79	273.73	100	352.3	85.01	25.64	93.18	1016.92	3.15
27/12/2025, 23:59	0.46	229.55	100	364.64	81.05	25.79	61.62	1013.68	2.81
28/12/2025, 23:59	1.45	298.37	100	354.99	76.17	16.67	43.53	1006.27	2.57
29/12/2025, 23:59	2	171.79	100	408.53	76.52	15.95	52.97	1005.94	0.04
30/12/2025, 23:59	1.63	261.33	100	468.74	78.2	19.39	52.74	1001.79	-1.04

Oizom will not be responsible for Environmental Data accuracy once Validated