

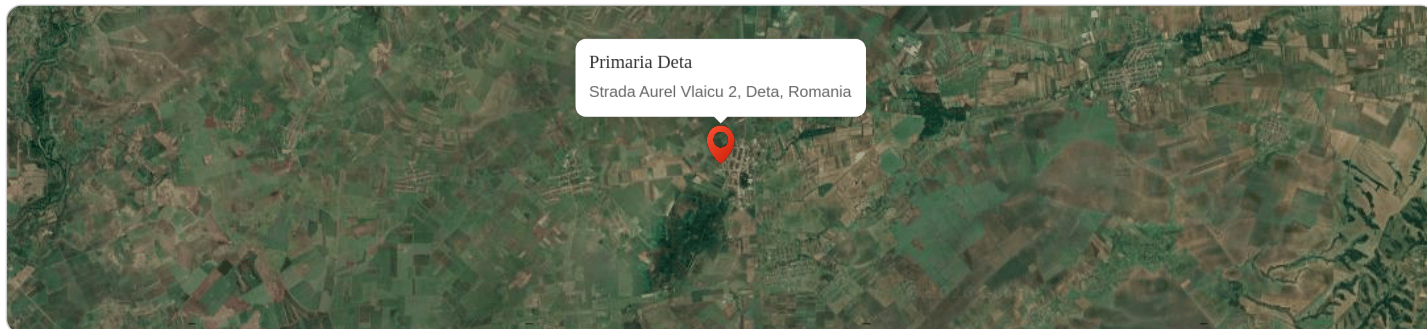
Primaria Deta

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Deta**
Locația dispozitivului: **Strada Aurel Vlaicu 2, Deta, 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): **410**

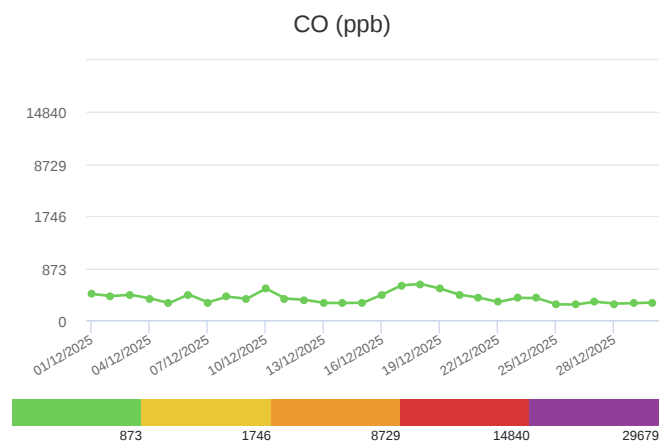
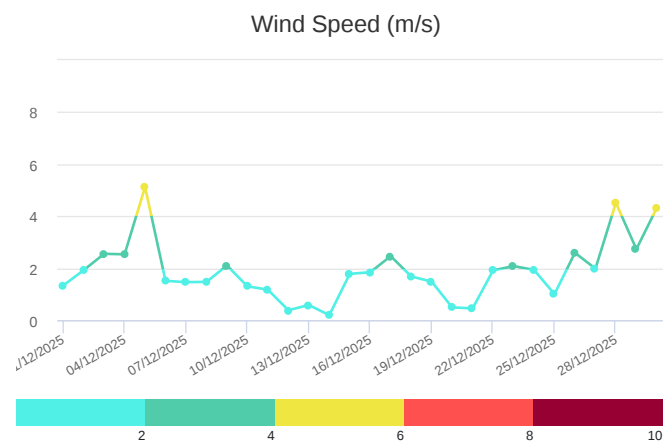
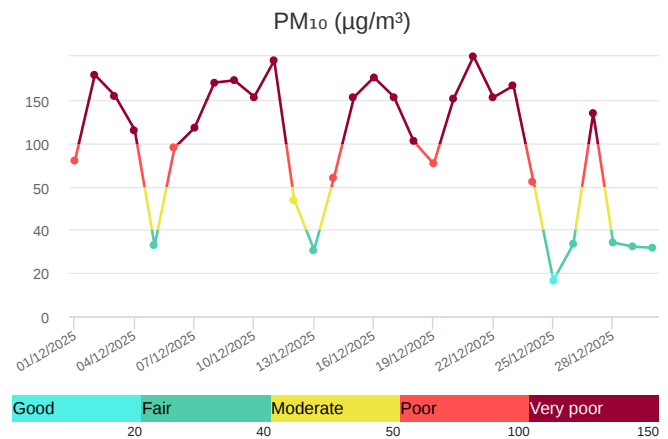
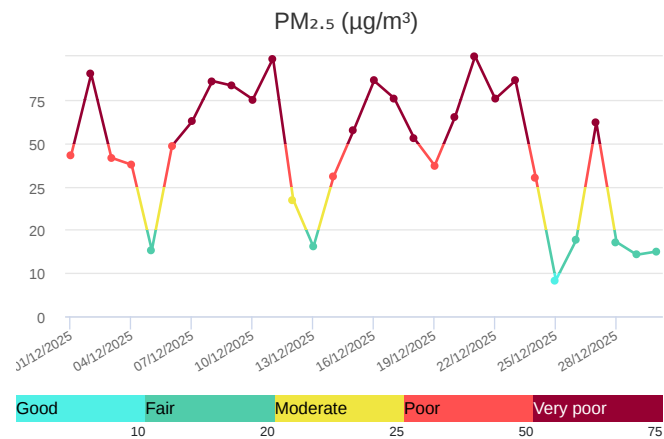
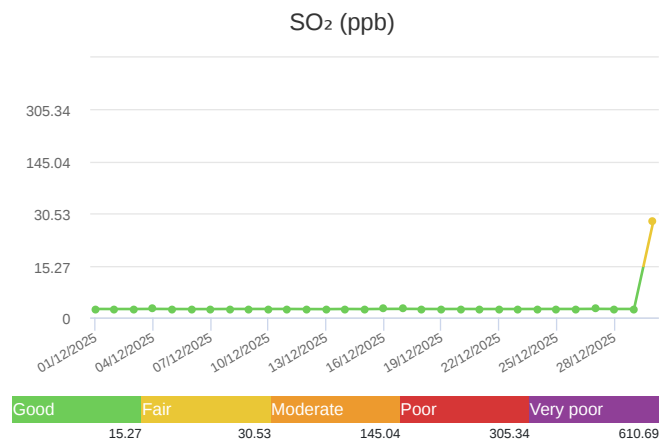
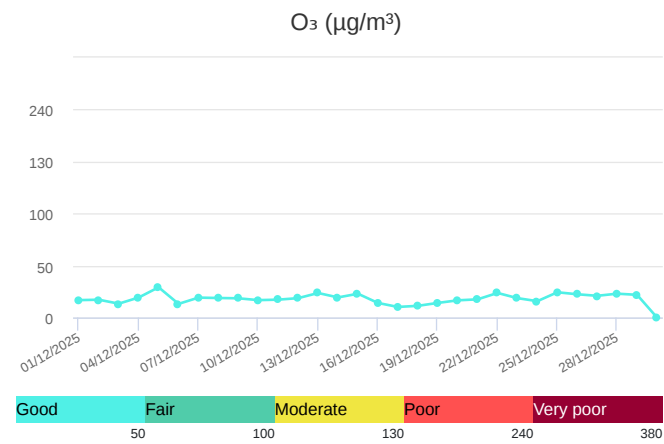
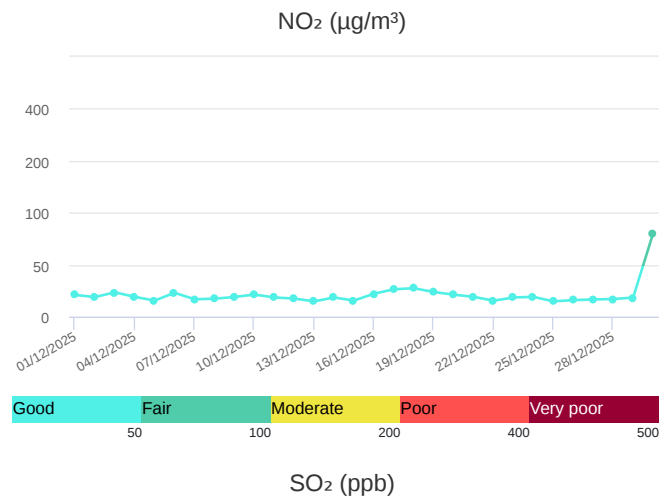
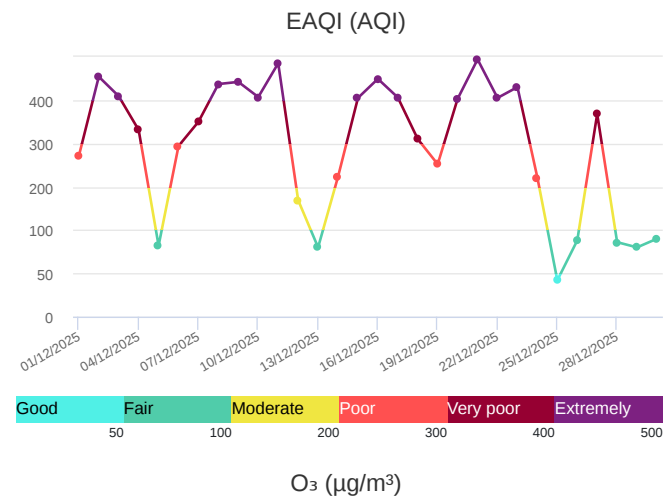
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

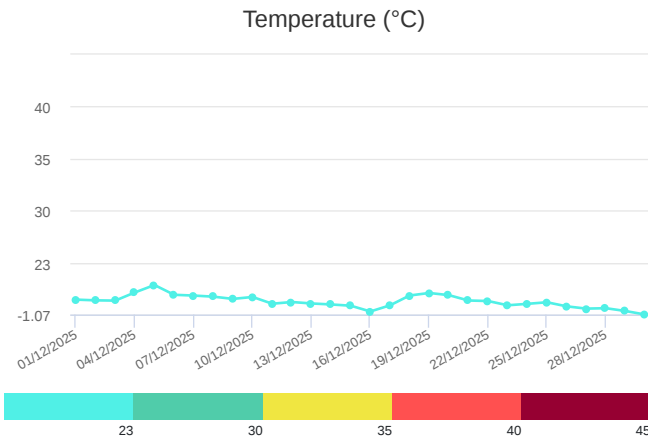
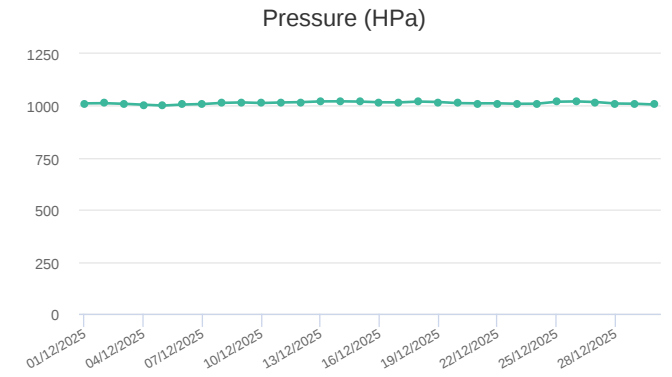
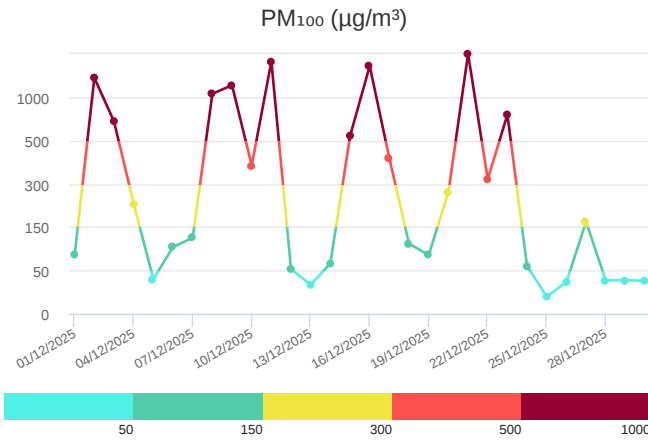
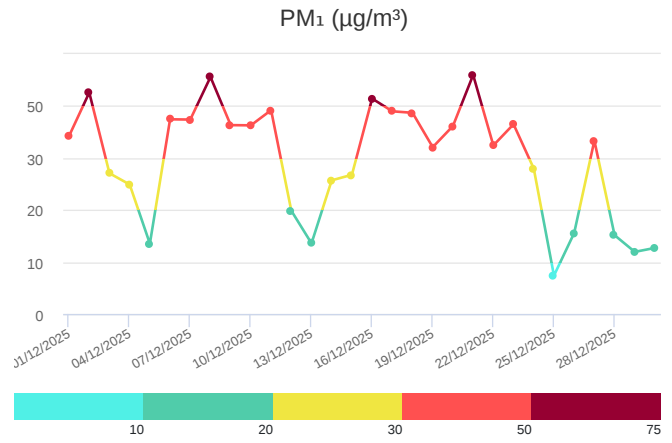
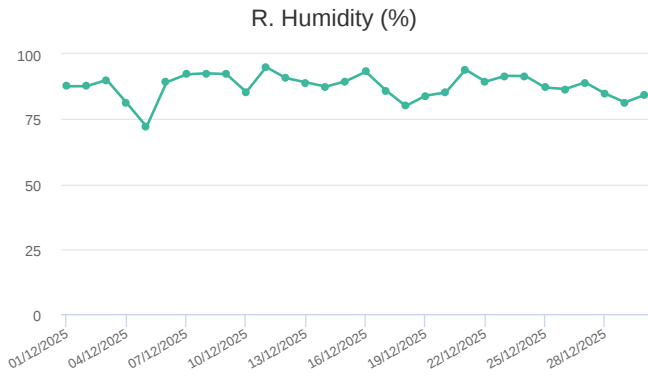
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	410	21.18	17.02	3.35	77.18	250.79
Maximum	494	80	29.04	28.13	280.66	1138.32
Date	21/12/2025	30/12/2025	05/12/2025	30/12/2025	21/12/2025	21/12/2025
Minimum	42	14.75	0	2.46	8.36	16.66
Date	25/12/2025	13/12/2025	30/12/2025	13/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

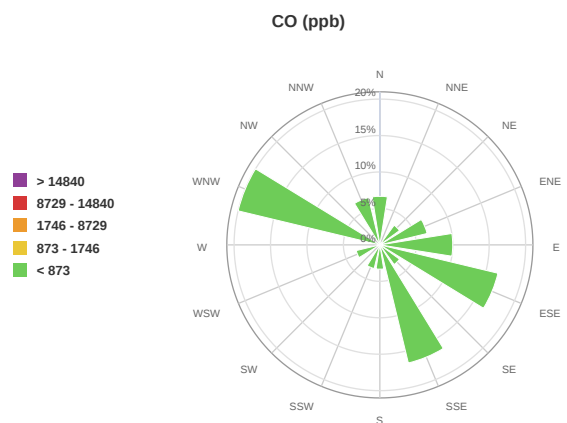
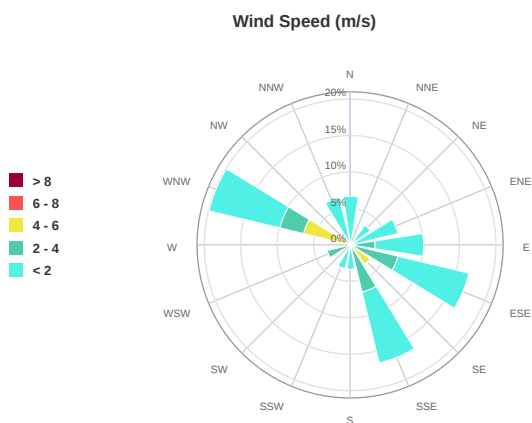
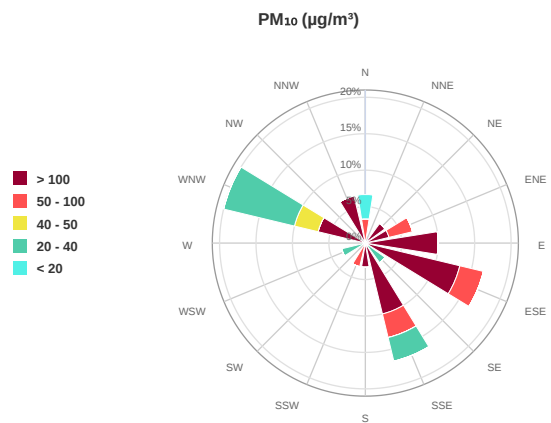
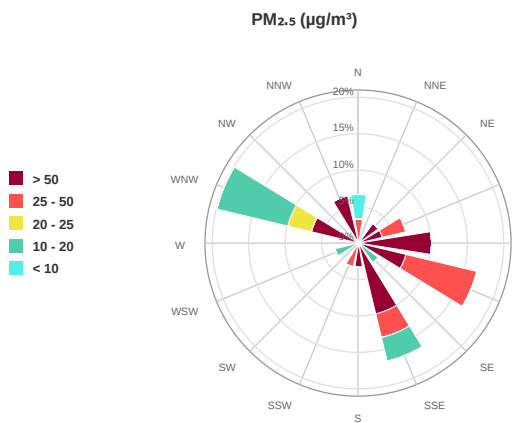
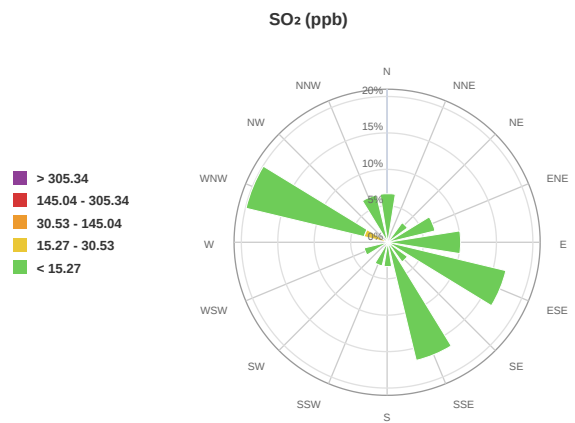
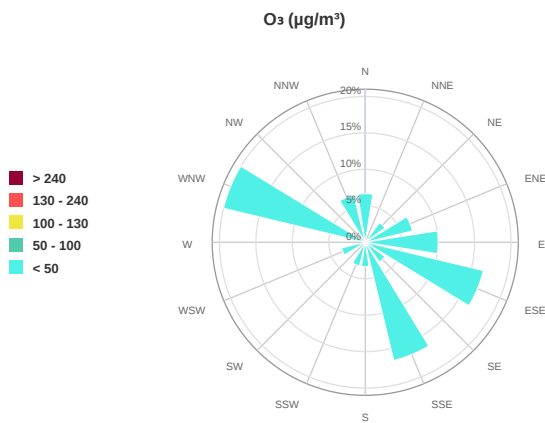
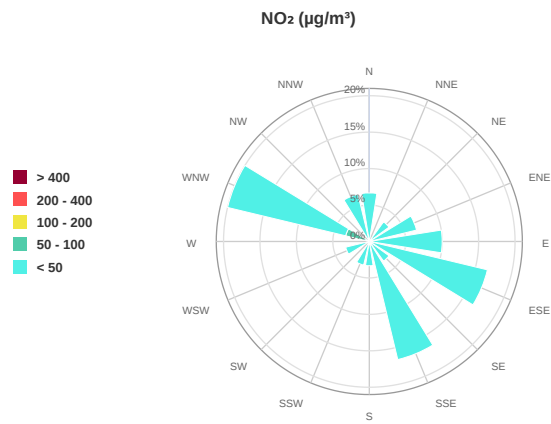
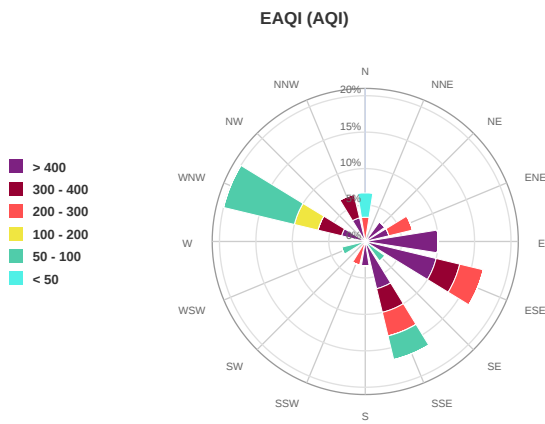
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure hPa	Temperature °C
Average	0.32	114.58	100	372.98	87.66	34.3	476.27	1013.65	5.01
Maximum	5.12	126.72	100	606.4	94.94	64.93	2043.75	1021.51	12.59
Date	05/12/2025	05/12/2025	01/12/2025	18/12/2025	11/12/2025	21/12/2025	21/12/2025	14/12/2025	05/12/2025
Minimum	0.19	192.58	100	260.02	72.03	7.38	19.71	1001.23	-1.07
Date	14/12/2025	14/12/2025	01/12/2025	26/12/2025	05/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

Weekly Average

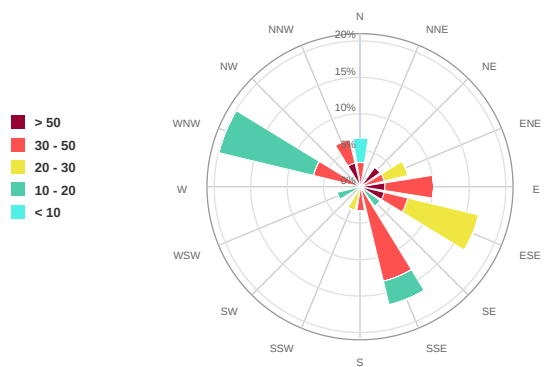




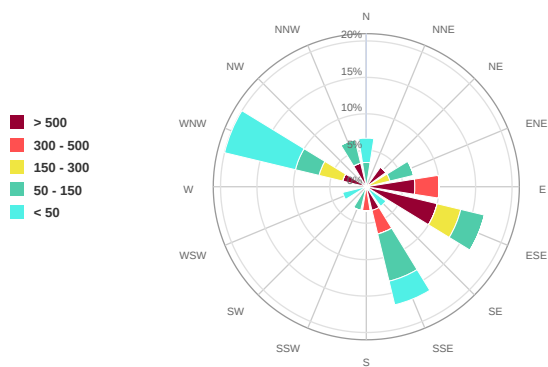
Weekly Average



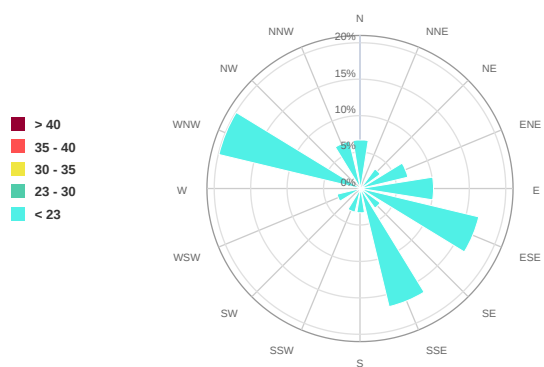
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/12/2025, 23:59 **Predominantly Poor to Extremely Poor Air Quality:** The air quality is frequently in the 'Poor' to 'Extremely Poor' range, with EAQI values often exceeding 300, indicating significant pollution levels.
- 30/12/2025, 23:59 **High PM_{2.5} Concentrations Correlate with Poor EAQI:** Elevated PM_{2.5} levels, frequently above 35 µg/m³, strongly correspond with poor EAQI values, suggesting PM_{2.5} as a major contributor to pollution.
- 23/12/2025, 23:59 **PM₁₀ Exceeds Limits, Especially on Specific Days:** PM₁₀ concentrations show significant spikes, reaching extremely poor levels, particularly on 2025-12-02, 2025-12-08, 2025-12-09, 2025-12-11, 2025-12-16, 2025-12-21 and 2025-12-23, impacting overall air quality significantly.
- 30/12/2025, 23:59 **NO₂ Levels Generally Within Acceptable Limits:** NO₂ concentrations are generally within 'Good' to 'Moderate' ranges, rarely exceeding the 'Poor' threshold, indicating it's not the primary pollutant.
- 30/12/2025, 23:59 **O₃ Levels Remain Relatively Stable:** O₃ levels fluctuate within 'Fair' to 'Moderate' ranges, without significant deviations, showing a consistent presence of this pollutant.
- 30/12/2025, 23:59 **SO₂ Consistently Low, Minimal Contribution to EAQI:** SO₂ concentrations remain consistently low (around 2.5 ppb), having a minimal impact on the overall EAQI, making it a negligible pollutant.
- 30/12/2025, 23:59 **Temperature Fluctuations Show Negative Correlation with EAQI:** Lower temperatures, often below 6°C, coincide with periods of extremely poor air quality, suggesting a possible link between temperature and pollution levels.
- 30/12/2025, 23:59 **Humidity Consistently High, Above 80%:** Relative humidity remains consistently high, generally above 80%, which may influence the dispersion and behavior of pollutants.
- 30/12/2025, 23:59 **Wind Speed Variations, Influence on Pollutant Dispersion:** Wind speeds fluctuate, with some correlation to pollutant levels, Higher speed can disperse pollutants. Slower speed might contribute to concentration.
- 30/12/2025, 23:59 **Pressure Fluctuations, Minor Impact on Air Quality:** Pressure variations show a limited impact on air quality, remaining within a narrow range with no significant correlation to EAQI changes.
- 30/12/2025, 23:59 **CO Levels Elevated, Contributing to Poor Air Quality:** CO levels consistently register elevated values, suggesting contribution to Poor air quality.
- 25/12/2025, 23:59 **December 25th Air Quality Significantly Better:** Air quality on December 25th was significantly better than other days, falling into the 'Good' range. This could be due to reduced industrial activity.
- 30/12/2025, 23:59 **Wind Direction Shifts, Impact on Pollution Sources:** Wind direction changes constantly. It could change the source of pollutant effecting different region.
- 30/12/2025, 23:59 **PM₁ is also high during peak EAQI:** PM₁ has similar trend as of EAQI. PM₁ is high during peak EAQI days
- 30/12/2025, 23:59 **PM₁₀₀ shows higher value:** PM₁₀₀ is consistently high, correlating with poor air quality. It is good to investigate the source of PM₁₀₀
- 30/12/2025, 23:59 **Temperature is consistently low:** Temperature is consistently low, remaining within the range -1 to 12 degree Celcius
- 30/12/2025, 23:59 **NO₂ levels seems within limit:** NO₂ concentrations generally remain within the 'Good' to 'Moderate' range, suggesting other pollutants are more significant contributors to poor EAQI.
- 11/12/2025, 23:59 **High Pollution Spikes on December 2nd and 11th:** December 2nd and 11th experienced particularly high pollution levels, with EAQI reaching 454 and 485 respectively.
- 30/12/2025, 23:59 **Consistent Battery Levels Indicate Reliable Data:** Battery levels remain at 100% throughout the period, ensuring reliability of data collection from monitoring devices.
- 30/12/2025, 23:59 **Sharp Drop in O₃ on Dec 30th:** A sharp drop in O₃ levels on Dec 30th to 0 µg/m³ coincided with a 'Poor' EAQI of 228, which needs more investigation.
- 17/12/2025, 23:59 **Pressure Peaked Mid-Month:** Atmospheric pressure peaked around the middle of the month, potentially influencing air circulation patterns.
- 05/12/2025, 23:59 **Higher Winds Associated with Better AQ:** When wind speeds peak, like on Dec 5th, the AQ is better than average.
- 30/12/2025, 23:59 **Wind Direction from the East Dominated:** Wind directions often come from the East (between 60 and 180 degrees), possibly carrying pollutants from that direction.
- 30/12/2025, 23:59 **December 30th shows different values:** December 30th shows NO₂ in extremely poor, O₃ is zero, SO₂ is extremely poor while overall AQI is showing poor.
- 30/12/2025, 23:59 **High PM_{2.5} is driving EAQI to Poor:** High PM_{2.5} concentrations correlate to drive the EAQI in poor category.
- 30/12/2025, 23:59 **Pressure consistently around 1010 HPa:** Pressure consistently remains in the range of 1000 to 1022 hpa, without significant change over time
- 25/12/2025, 23:59 **December 25th Best Air Quality:** December 25th recorded the best air quality with EAQI as 48
- 30/12/2025, 23:59 **Good Correlation Between EAQI and AQI:** EAQI and AQI values are consistently similar, which provides consistency.
- 21/12/2025, 23:59 **Extremely High PM₁₀:** Extremely high PM₁₀ with values greater than 1000 observed across December 11, 16 and 21, driving air quality lower.
- 30/12/2025, 23:59 **Need to identify source of CO emissions:** Consistent CO levels above 250 ppb suggest possible industrial activity.

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	271	21	16.69	2.5	42.64	79.59
02/12/2025, 23:59	454	18.83	17.11	2.49	196.85	717.98
03/12/2025, 23:59	409	23.44	13.32	2.49	41.47	248.83
04/12/2025, 23:59	331	19.09	19.21	2.52	37.48	115.31
05/12/2025, 23:59	82	15.5	29.04	2.49	15.27	32.67
06/12/2025, 23:59	294	23.01	13.08	2.48	48.38	94.58
07/12/2025, 23:59	350	16.78	19.1	2.48	62.5	117.47
08/12/2025, 23:59	437	17.29	18.76	2.51	163.72	539.33
09/12/2025, 23:59	442	18.97	18.47	2.51	141.27	590.41
10/12/2025, 23:59	407	21.29	16.68	2.51	76.73	218.32
11/12/2025, 23:59	485	18.49	17.14	2.5	270.61	1041.21
12/12/2025, 23:59	169	17.45	18.58	2.48	23.45	46.95
13/12/2025, 23:59	80	14.75	23.54	2.46	16.04	30.63
14/12/2025, 23:59	223	18.46	19.29	2.5	30.71	60.42
15/12/2025, 23:59	405	15.54	22.86	2.48	57.57	207.22
16/12/2025, 23:59	449	22.12	14.02	2.52	164.95	660.81
17/12/2025, 23:59	406	26.33	10.15	2.54	81.64	217.62
18/12/2025, 23:59	310	27.38	11.19	2.5	52.48	101.89
19/12/2025, 23:59	252	23.73	14.01	2.49	37	75.96
20/12/2025, 23:59	403	21.21	16.51	2.5	64.82	177.24
21/12/2025, 23:59	494	19.1	17.44	2.49	280.66	1138.32
22/12/2025, 23:59	405	15.42	23.6	2.49	78.99	204.15
23/12/2025, 23:59	430	18.45	18.61	2.49	165.82	469.34
24/12/2025, 23:59	221	19.11	15.68	2.5	30.24	55.49
25/12/2025, 23:59	42	14.76	24.25	2.5	8.36	16.66
26/12/2025, 23:59	88	15.9	22.35	2.5	17.53	33.23
27/12/2025, 23:59	368	16.59	20.85	2.53	61.8	134.16
28/12/2025, 23:59	86	17	22.88	2.5	17.14	34.03
29/12/2025, 23:59	80	18.34	21.81	2.51	14.21	32.15
30/12/2025, 23:59	90	80	0	28.13	14.96	31.64

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	1.33	150.29	100	440.27	87.57	38.46	86.09	1011.7	5.85
02/12/2025, 23:59	1.92	103.05	100	403.11	87.63	56.44	1466.39	1012.56	5.51
03/12/2025, 23:59	2.55	120.31	100	425.51	90.05	27.06	718.57	1009.64	5.39
04/12/2025, 23:59	2.53	109.42	100	364.97	81.22	24.9	231.13	1005.26	9.16
05/12/2025, 23:59	5.12	126.72	100	286.56	72.03	13.52	39.92	1001.23	12.59
06/12/2025, 23:59	1.51	358.57	100	430.7	89.1	44.88	104.32	1006.13	8.08
07/12/2025, 23:59	1.46	340.26	100	298.92	92.16	44.79	125.26	1008.49	7.72
08/12/2025, 23:59	1.47	333.51	100	394.43	92.59	63.94	1079.55	1014.13	7.21
09/12/2025, 23:59	2.1	149.07	100	357.35	92.27	42.64	1288.32	1016.25	6.17
10/12/2025, 23:59	1.3	176.98	100	530.01	85.39	42.57	384.42	1013.49	7.07
11/12/2025, 23:59	1.17	287.7	100	361.56	94.94	48.41	1860.3	1015.99	3.94
12/12/2025, 23:59	0.38	302.2	100	341.45	90.74	19.86	52.73	1017.64	4.73
13/12/2025, 23:59	0.58	150.14	100	289.17	89.08	13.58	33.51	1021.14	4.06
14/12/2025, 23:59	0.19	192.58	100	286.54	87.45	25.7	66.45	1021.51	3.61
15/12/2025, 23:59	1.78	113.19	100	290.93	89.57	26.77	550.91	1020.27	3.03
16/12/2025, 23:59	1.84	79.22	100	429.06	93.19	53.58	1751.91	1016.98	0.35
17/12/2025, 23:59	2.46	148.94	100	582.85	86.03	47.96	416.6	1016.43	3.2
18/12/2025, 23:59	1.68	161.39	100	606.4	80	47.37	111.63	1020.36	7.73
19/12/2025, 23:59	1.48	118.22	100	527.81	83.99	34.16	85.62	1018.19	8.91
20/12/2025, 23:59	0.49	67.3	100	426.74	85.19	42.3	270.86	1012.74	7.91
21/12/2025, 23:59	0.45	54.86	100	378.13	93.98	64.93	2043.75	1011.84	5.43
22/12/2025, 23:59	1.91	99.14	100	303.58	89.37	34.85	321.52	1011.97	5.18
23/12/2025, 23:59	2.08	91.7	100	373.48	91.6	42.98	798.59	1009.66	3.21
24/12/2025, 23:59	1.93	63.22	100	369.65	91.53	27.97	60.02	1010.07	3.9
25/12/2025, 23:59	1	354.94	100	265.33	87.1	7.38	19.71	1019.63	4.61
26/12/2025, 23:59	2.59	297.86	100	260.02	86.54	15.56	36.55	1021.12	2.73
27/12/2025, 23:59	1.98	282.21	100	308.91	89.07	36.67	168.38	1017.99	1.68
28/12/2025, 23:59	4.51	301.34	100	276.77	84.78	15.15	38.39	1010.94	1.87
29/12/2025, 23:59	2.73	237.97	100	284.12	81.41	11.94	38.81	1009.93	0.57
30/12/2025, 23:59	4.32	298.91	100	295.03	84.32	12.7	37.97	1006.12	-1.07

Oizom will not be responsible for Environmental Data accuracy once Validated