Primaria Teremia Mare

MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Teremia Mare**
Locația dispozitivului: **DN59C Matei Boldovina, Teremia Mare 307405, 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): **309**

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

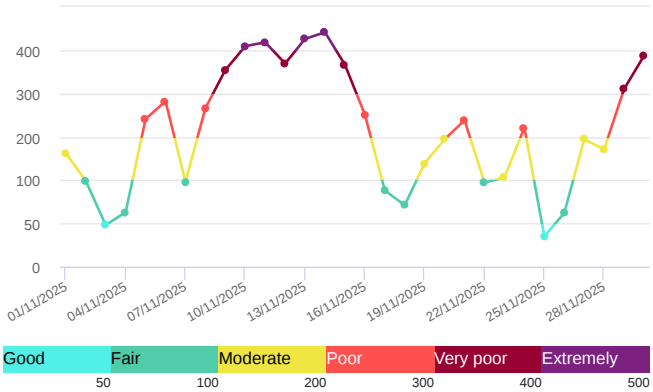
	EAQI AQI	NO_2 µg/m³	O_3 µg/m³	SO_2 ppb	$PM_{2.5}$ µg/m³	PM_{10} µg/m³
Average	309	7.26	9.41	8.28	44.33	104.5
Maximum	441	20.59	22.05	14.39	163.4	577.37
Date	14/11/2025	15/11/2025	04/11/2025	11/11/2025	14/11/2025	14/11/2025
Minimum	35	0	0	0	6.79	14.13
Date	25/11/2025	01/11/2025	08/11/2025	05/11/2025	25/11/2025	25/11/2025

Prezentare generală zilnică: Alți parametri

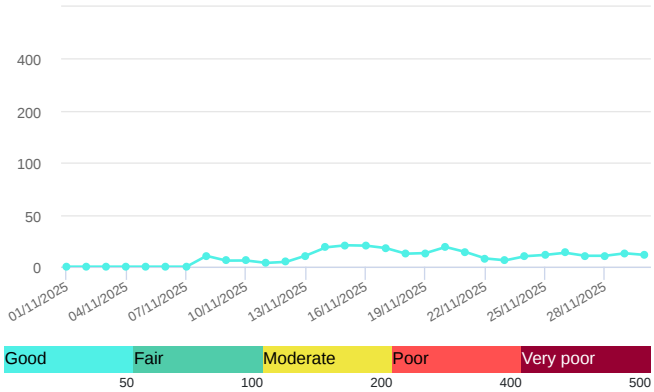
	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM1 µg/m³	PM100 µg/m³	Pressure HPa	Temperature °C
Average	0.81	184.11	100	394.23	82.11	30.79	145.84	1008.48	8.23
Maximum	9.77	163.51	100	492.58	93.31	61.07	1007.48	1017.93	16.17
Date	25/11/2025	25/11/2025	01/11/2025	16/11/2025	11/11/2025	14/11/2025	14/11/2025	05/11/2025	02/11/2025
Minimum	0.62	318.98	100	326.33	67.58	5.9	18.55	995.96	2.16
Date	21/11/2025	21/11/2025	01/11/2025	25/11/2025	02/11/2025	25/11/2025	25/11/2025	25/11/2025	23/11/2025

Weekly Average

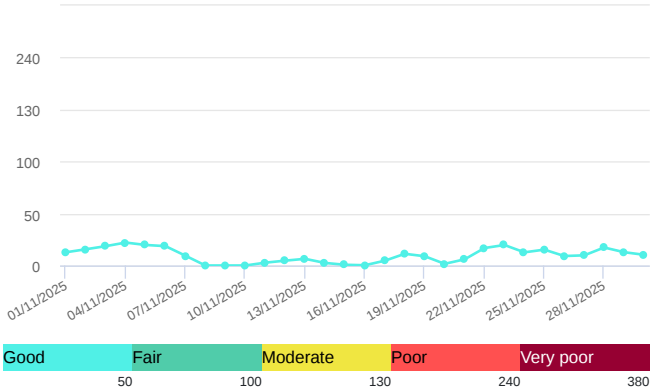
EAQI (AQI)



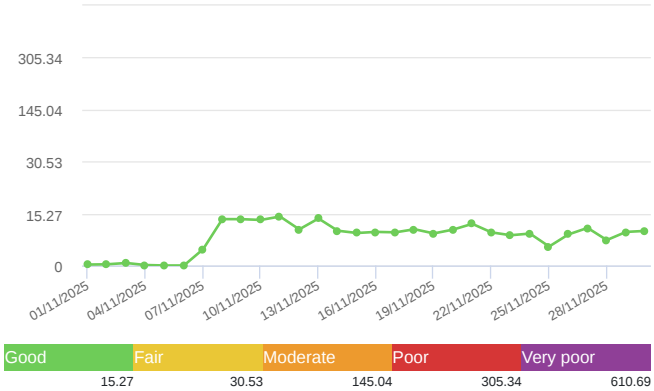
NO_2 (µg/m³)



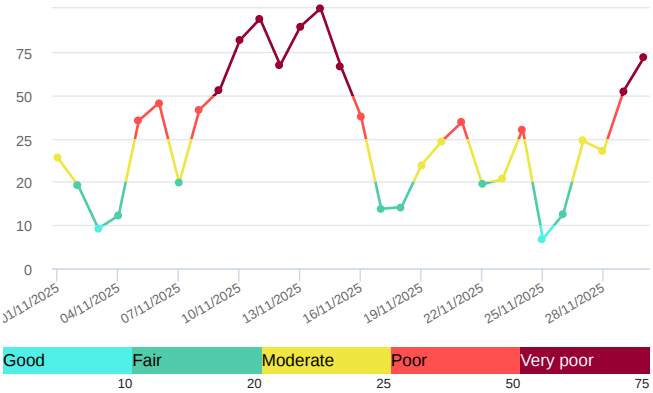
O_3 (µg/m³)



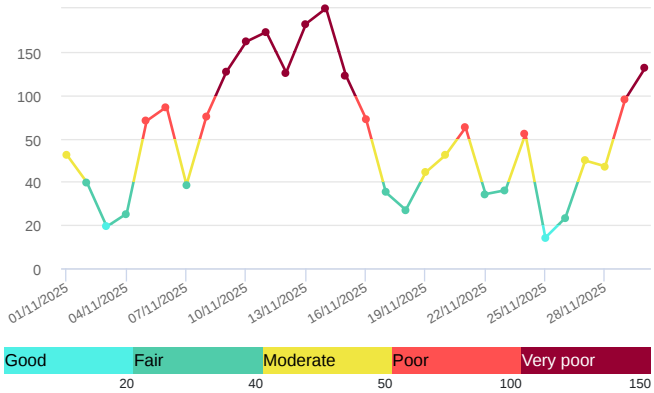
SO_2 (ppb)



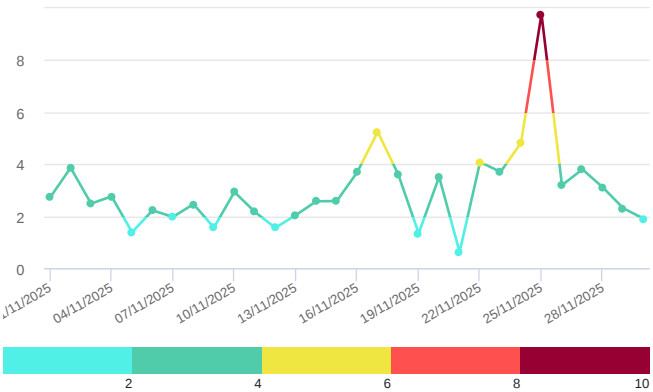
$PM_{2.5}$ (µg/m³)



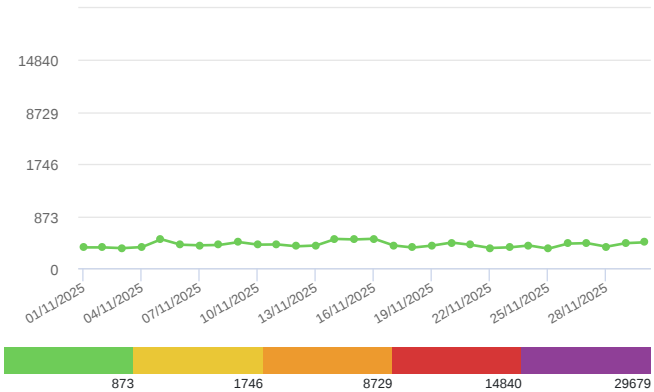
PM_{10} (µg/m³)



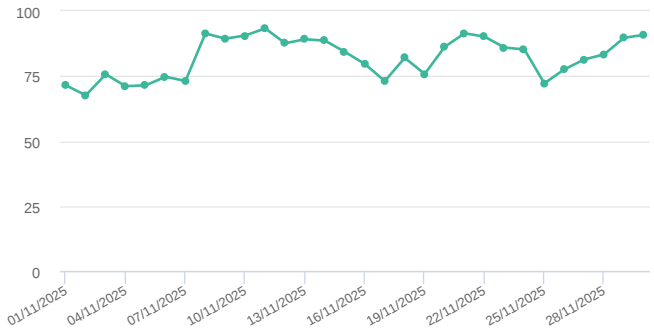
Wind Speed (m/s)



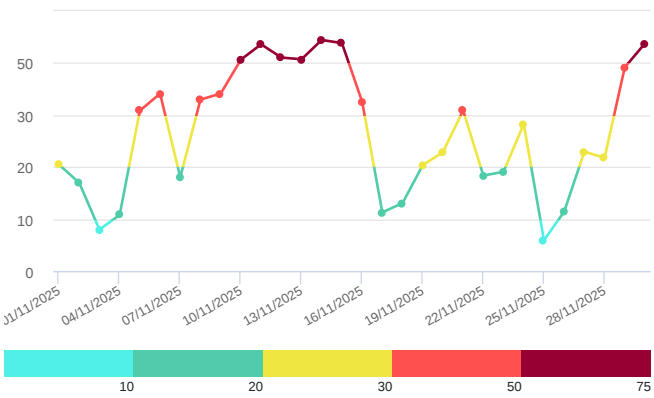
CO (ppb)



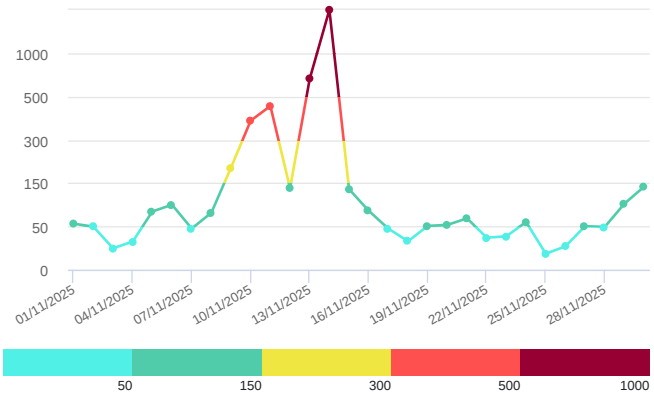
R. Humidity (%)



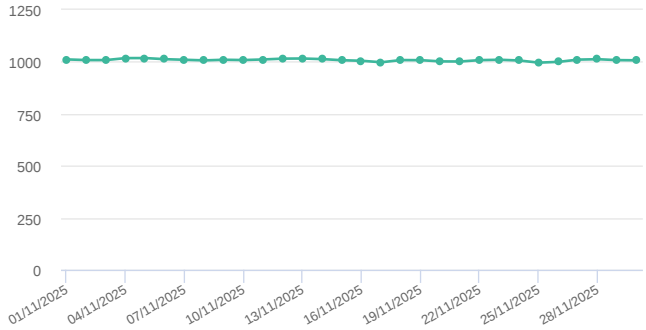
PM₁ (µg/m³)



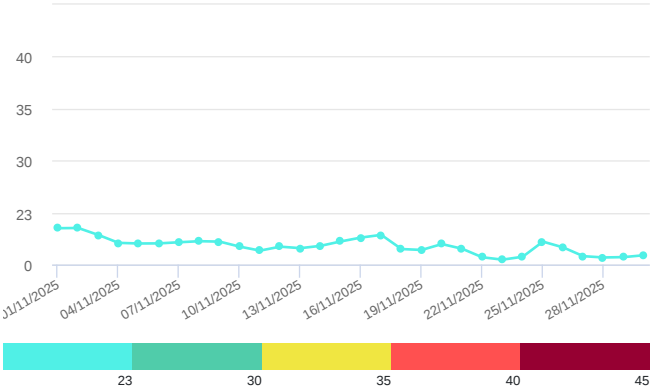
PM₁₀₀ (µg/m³)



Pressure (HPa)

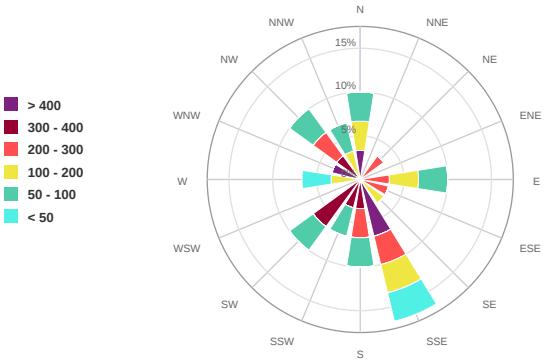


Temperature (°C)

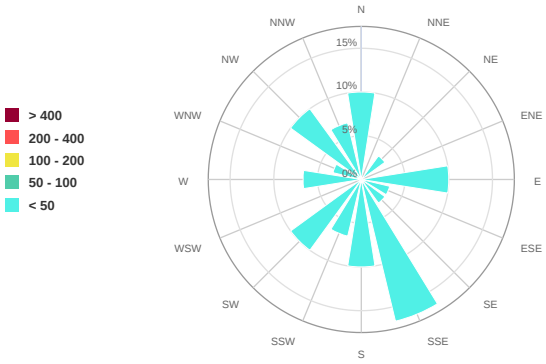


Weekly Average

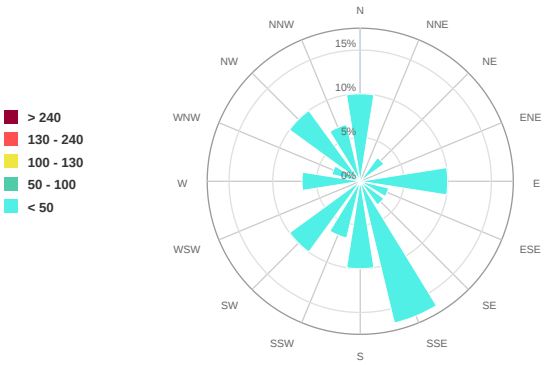
EAQI (AQI)



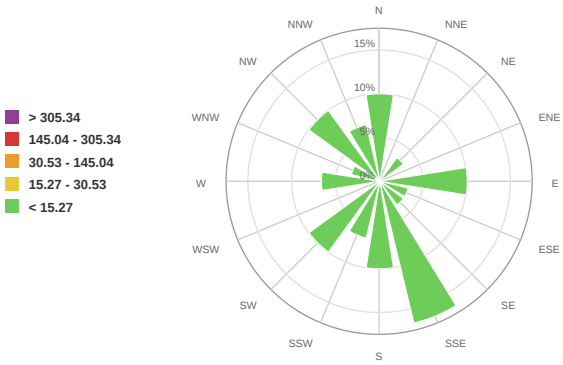
NO_2 (µg/m³)



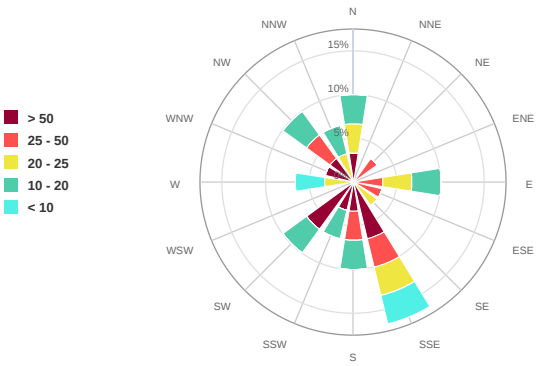
O_3 (µg/m³)



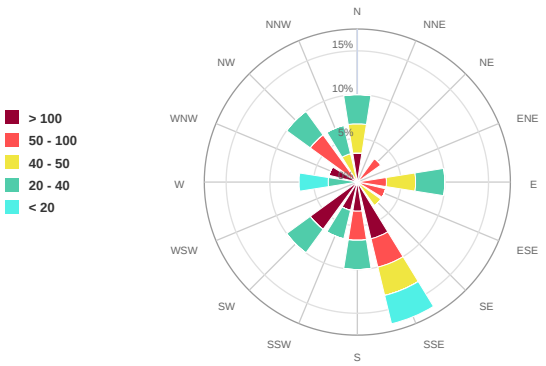
SO_2 (ppb)



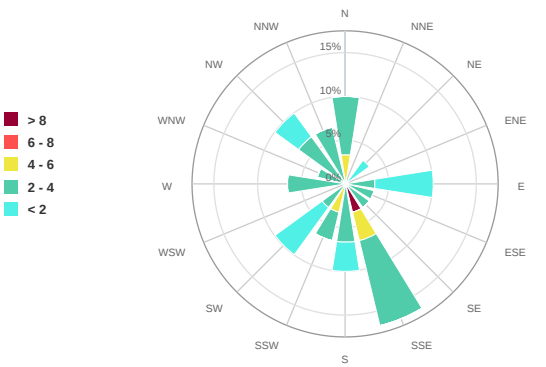
$PM_{2.5}$ (µg/m³)



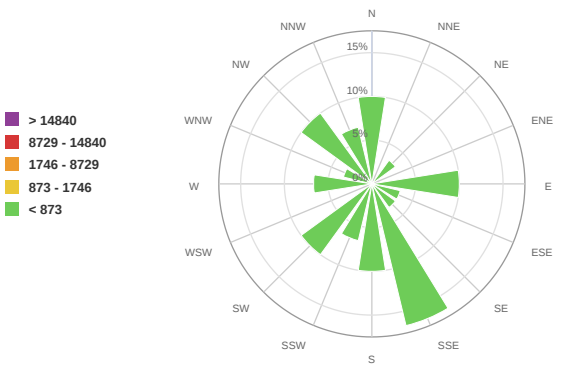
PM_{10} (µg/m³)



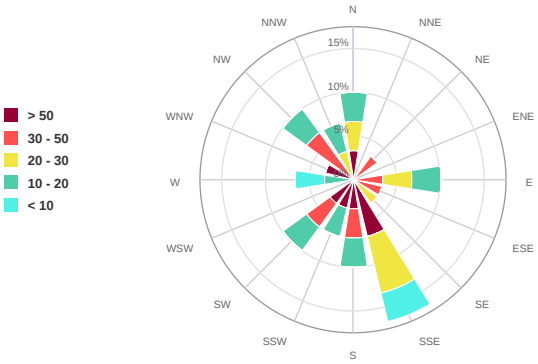
Wind Speed (m/s)



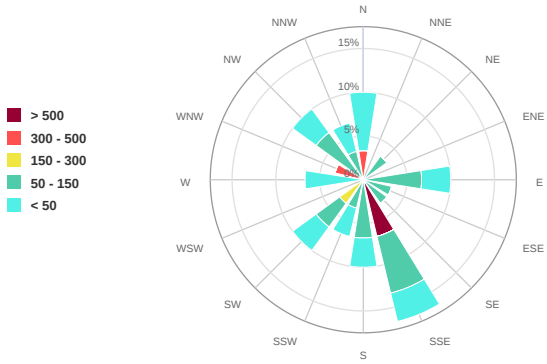
CO (ppb)



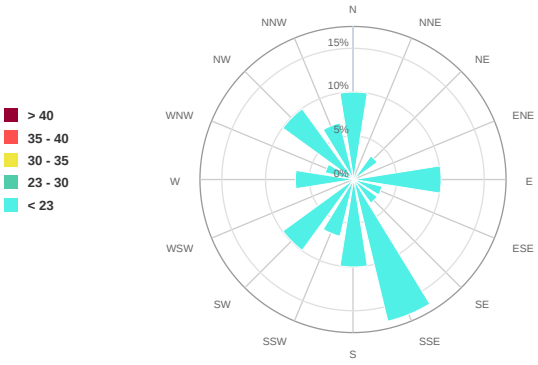
PM₁ (µg/m³)



PM₁₀₀ (µg/m³)



Temperature (°C)



Alerte

No alerts for the selected date and time range

Insights

- 30/11/2025, 23:59 **EAQI Fluctuations Dominated by Poor to Extremely Poor Air Quality**: EAQI shows significant variability, with readings frequently falling within the 'Poor' to 'Extremely Poor' ranges, indicating concerning air quality levels. The EAQI reached as high as 441.
- 30/11/2025, 23:59 **$PM_{2.5}$ Concentrations Frequently Exceed Acceptable Limits**: $PM_{2.5}$ levels often reside in the 'Poor' to 'Very Poor' categories, with some days reaching 'Extremely Poor'. The max recorded value is 163.4 µg/m³, signifying a high risk to respiratory health.
- 30/11/2025, 23:59 **PM_{10} Levels Show Frequent 'Poor' to 'Extremely Poor' Readings**: PM_{10} concentrations show frequent exceedances, often registering in the 'Poor' to 'Extremely Poor' bands, peaking at 577.37 µg/m³, suggesting significant dust or industrial pollution.
- 30/11/2025, 23:59 **NO_2 Levels Generally Low, with Some Fair Readings**: NO_2 concentrations are generally low, often at 0, with occasional readings reaching the 'Fair' zone, suggesting relatively low levels of combustion-related pollution in most instances.
- 30/11/2025, 23:59 **O_3 Concentrations Mostly in 'Good' to 'Fair' Range**: O_3 levels are predominantly in the 'Good' to 'Fair' range, indicating that ozone pollution is not a major concerning factor based on the provided data.
- 30/11/2025, 23:59 **SO_2 Levels Consistently Low Across Timeframe**: SO_2 concentrations remain consistently low, within the 'Good' zone, signaling a limited contribution from sulfur dioxide to overall air pollution.
- 30/11/2025, 23:59 **High Humidity Potentially Correlates with Poorer Air Quality**: High relative humidity (often above 70%) coincides with periods of 'Poor' to 'Extremely Poor' EAQI, possibly exacerbating the effects of particulate matter.
- 30/11/2025, 23:59 **Temperature Inversion Potential Air Quality Impact**: Lower temperatures (below 10°C) may be associated with poorer air quality, potentially indicating temperature inversions trapping pollutants near the ground.
- 30/11/2025, 23:59 **Wind Speed and Air Quality Relationship is Complex**: While higher wind speeds might be expected to disperse pollutants, the relationship is complex and requires more data to understand its effects on the measured pollution levels.
- 10/11/2025, 23:59 **November 10th Worst Air Quality Day**: November 10th saw the worst air quality, with an EAQI of 409, categorized as 'Extremely Poor', driven by extremely high $PM_{2.5}$ and PM_{10} concentrations.
- 30/11/2025, 23:59 **Air Quality Shows General Decline From November 1st Onwards**: A trend towards worsening air quality is apparent throughout November, with a higher frequency of 'Poor' to 'Extremely Poor' days observed in the second half of the month.
- 30/11/2025, 23:59 **PM_1 Consistently Lower Than $PM_{2.5}$**: PM_1 concentrations are consistently lower than $PM_{2.5}$, suggesting a significant proportion of the fine particulate matter falls within the 1 to 2.5 micrometer range.
- 30/11/2025, 23:59 **PM_{100} Exceeds PM_{10} Indicating Larger Particles**: PM_{100} concentrations are generally greater than PM_{10} concentrations. There appears to be a significant presence of coarse particles.
- 30/11/2025, 23:59 **CO Levels Show Moderate Fluctuation**: CO (Carbon Monoxide) levels fluctuate within a moderate range, with values generally between 326 ppb and 493 ppb. It is not a primary driver of EAQI.
- 30/11/2025, 23:59 **Pressure Variations Show Limited Correlation to AQI**: Atmospheric pressure varies during the month, but no strong correlation with air quality parameters (EAQI, $PM_{2.5}$, PM_{10}) is immediately evident.
- 03/11/2025, 23:59 **November 3rd Best Air Quality Day**: November 3rd saw the best air quality, with an EAQI of 48, categorized as 'Good', driven by low $PM_{2.5}$ and PM_{10} concentrations.
- 30/11/2025, 23:59 **Temperature Appears Inversely Correlated with EAQI**: A trend towards decreasing temperature is observed with increasing EAQI indicating poorer air quality.
- 30/11/2025, 23:59 **Predominant Wind Direction From South-East**: Predominant wind directions are primarily from the south-east, which influences the distribution of pollutants from sources in those directions.
- 30/11/2025, 23:59 **O_3 Minimal Impact on EAQI**: Relatively stable Ozone levels have minimal impact on the daily EAQI fluctuation.
- 30/11/2025, 23:59 **SO_2 Levels Consistently Very Low**: SO_2 levels are extremely low throughout November, and are likely not contributing to overall AQI issues. The values are near 0.
- 07/11/2025, 23:59 **Fair Air Quality Spikes in November**: Fair air quality spikes appear mainly in early/late November. November 3rd air quality was 'Good'.
- 30/11/2025, 23:59 **Elevated Particulate Matter During the Month**: Elevated $PM_{2.5}$ and PM_{10} levels occur with no discernable pattern throughout the Month.
- 30/11/2025, 23:59 **Extremely Poor AQI Dominate the Month**: Extremely Poor air quality makes up a large percentage of the days, with smaller periods of better quality.
- 30/11/2025, 23:59 **Wind Direction Does Not Clearly Improve Air Quality**: Variations in Wind direction appears to have minimal correlation to overall air quality
- 30/11/2025, 23:59 **CO Does Not Drive Air Quality**: Carbon Monoxide levels appear to have minimal to no impact on the current EAQI.
- 25/11/2025, 23:59 **November 25th air quality spike**: November 25th was a spike in air quality within 'Good' range at 35 EAQI.
- 30/11/2025, 23:59 **Significant Variation in Air Quality Throughout Month**: Air quality demonstrates high volatility, transitioning from good conditions to extremely poor conditions in a short timeframe.
- 30/11/2025, 23:59 **Particulate Matter Drives poor EAQI Rating**: $PM_{2.5}$ and PM_{10} levels seem to be the primary driver of poor air quality
- 30/11/2025, 23:59 **Battery Data Indicates Consistent Monitoring**: All readings were taken with 100% battery on the monitoring device, indicating data integrity and consistent operation.

- 30/11/2025, 23:59 **EAQI and EAQI (AQI) Values Are Identical**: EAQI and EAQI (AQI) columns have identical values. The EAQI (AQI) seems to be a redundant column.

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	162	0	12.71	0.28	22.72	46.16
02/11/2025, 23:59	99	0	15.59	0.35	19.09	39.73
03/11/2025, 23:59	48	0	18.58	0.74	9.17	19.24
04/11/2025, 23:59	63	0	22.05	0.14	12.21	25.25
05/11/2025, 23:59	241	0	19.74	0	35.25	70.14
06/11/2025, 23:59	282	0	18.58	0	45.48	86.29
07/11/2025, 23:59	98	0	9.39	4.8	19.66	38.52
08/11/2025, 23:59	266	10.39	0	13.62	41.51	75.38
09/11/2025, 23:59	354	5.87	0	13.61	52.8	126.76
10/11/2025, 23:59	409	5.93	0	13.37	98.41	249.24
11/11/2025, 23:59	418	3.63	2.69	14.39	142.17	343.85
12/11/2025, 23:59	369	4.65	4.66	10.61	67.22	126.05
13/11/2025, 23:59	426	10.77	6.41	13.8	126.33	426.52
14/11/2025, 23:59	441	18.65	2.47	10.21	163.4	577.37
15/11/2025, 23:59	366	20.59	0.68	9.54	66.52	122.27
16/11/2025, 23:59	251	20.24	0.27	9.87	37.66	72.72
17/11/2025, 23:59	88	17.89	4.59	9.74	13.73	35.04
18/11/2025, 23:59	71	12.5	11.24	10.64	14.12	26.96
19/11/2025, 23:59	139	13.12	8.88	9.42	21.95	42.16
20/11/2025, 23:59	194	18.97	1.6	10.53	24.68	46.16
21/11/2025, 23:59	238	14.12	5.9	12.23	34.43	62.45
22/11/2025, 23:59	97	7.9	16.79	9.72	19.38	34.26
23/11/2025, 23:59	106	6.13	19.7	8.88	20.31	36.03
24/11/2025, 23:59	221	10.11	12.66	9.37	30.31	54.73
25/11/2025, 23:59	35	11.33	15.25	5.58	6.79	14.13
26/11/2025, 23:59	62	13.38	9.09	9.12	12.45	23.27
27/11/2025, 23:59	194	10.49	9.77	11.04	24.7	44.87
28/11/2025, 23:59	171	10.52	17.31	7.47	23.55	43.54
29/11/2025, 23:59	310	12.9	12.81	9.86	52.4	94.83
30/11/2025, 23:59	387	11.28	10.32	10.16	71.63	131.06

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	2.72	139.55	100	347.78	71.41	20.45	56.32	1011.49	16.07
02/11/2025, 23:59	3.86	170.36	100	347.2	67.58	16.95	49.75	1008.37	16.17
03/11/2025, 23:59	2.48	274.13	100	335.38	75.65	7.95	24.81	1008.33	13.09
04/11/2025, 23:59	2.76	308.8	100	352.46	71.08	10.79	32.45	1017.82	9.6
05/11/2025, 23:59	1.38	54.11	100	484.66	71.43	31.69	84.47	1017.93	9.32
06/11/2025, 23:59	2.22	121.37	100	393.09	74.69	38.23	100.05	1012.53	9.36
07/11/2025, 23:59	1.97	99.31	100	382.39	73.1	18.02	47.57	1009.72	9.86
08/11/2025, 23:59	2.46	82.48	100	388.92	91.37	35.94	81.57	1006.81	10.32
09/11/2025, 23:59	1.56	216.31	100	437.66	89.36	38.21	204.07	1009.87	10.15
10/11/2025, 23:59	2.93	10.65	100	394.14	90.59	51.63	388.46	1008.42	7.91
11/11/2025, 23:59	2.16	289.46	100	396.86	93.31	59.01	455.75	1011.31	6.16
12/11/2025, 23:59	1.55	169.13	100	365.54	87.6	52.63	138.28	1015.24	7.91
13/11/2025, 23:59	2.04	150.58	100	379.93	89.13	51.79	703.06	1015.82	7.25
14/11/2025, 23:59	2.57	149.42	100	489.98	88.59	61.07	1007.48	1012.92	8.29
15/11/2025, 23:59	2.58	195.47	100	481.31	84.27	59.57	136	1007.61	10.23
16/11/2025, 23:59	3.69	181.92	100	492.58	79.6	35.14	86.02	1004.87	11.93
17/11/2025, 23:59	5.24	198.24	100	380.79	73.06	11.27	47.38	997.79	13.14
18/11/2025, 23:59	3.61	339.95	100	345.07	81.99	13.05	32.91	1008.42	6.85
19/11/2025, 23:59	1.34	91.86	100	378.44	75.77	20.34	51.24	1007.82	6.47
20/11/2025, 23:59	3.51	156.18	100	428.32	86.19	22.86	53.62	1001.95	9.06
21/11/2025, 23:59	0.62	318.98	100	390.17	91.44	31.73	68.55	1001.4	7
22/11/2025, 23:59	4.08	352.9	100	337.68	90.15	18.35	37	1008.03	3.21
23/11/2025, 23:59	3.7	260.35	100	348.63	85.95	19.07	38.62	1009.89	2.16
24/11/2025, 23:59	4.82	163.7	100	379.73	85.21	28.26	60.28	1006.34	3.44
25/11/2025, 23:59	9.77	163.51	100	326.33	72.17	5.9	18.55	995.96	10.15
26/11/2025, 23:59	3.19	215.51	100	411.58	77.54	11.4	26.93	999.63	7.6
27/11/2025, 23:59	3.8	347.42	100	418.92	81.34	22.95	50.54	1010.55	3.71
28/11/2025, 23:59	3.1	357.75	100	359.74	83.34	21.76	49.38	1012.41	3.12
29/11/2025, 23:59	2.3	315.17	100	418.65	89.69	48.31	102.45	1008.1	3.29
30/11/2025, 23:59	1.9	223.83	100	433.01	90.83	59.46	141.69	1007.17	4.12