

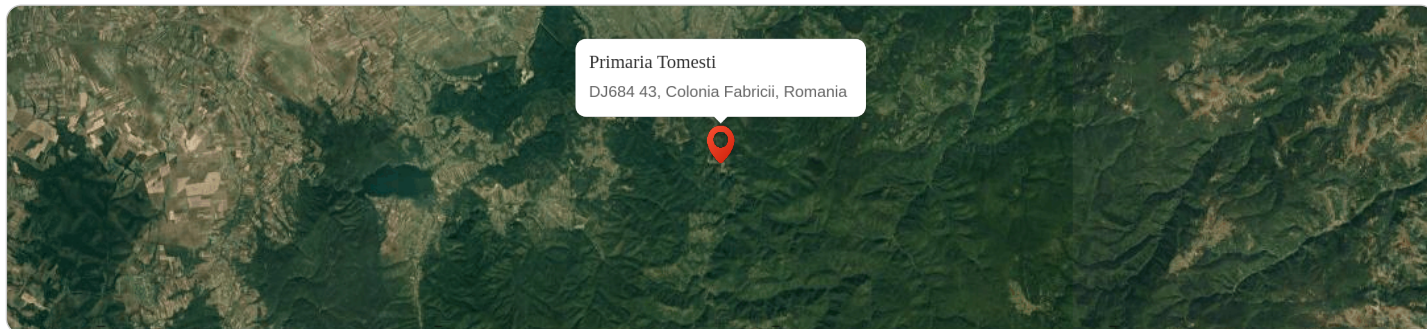
# Primaria Tomesti

## MONTHLY AIR-QUALITY REPORT

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

Numele dispozitivului: **Primaria Tomesti**  
Locația dispozitivului: **DJ684 43, Colonia Fabricii, Romania**

Parametrii: **EAQI , NO<sub>2</sub> , O<sub>3</sub> , SO<sub>2</sub> , PM<sub>2.5</sub> , PM<sub>10</sub> , Wind Speed , Wind Direction , CO , R. Humidity , PM<sub>1</sub> , PM<sub>100</sub> , Pressure , Temperature**



Media indicelui de calitate al aerului (ICA): **217**

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

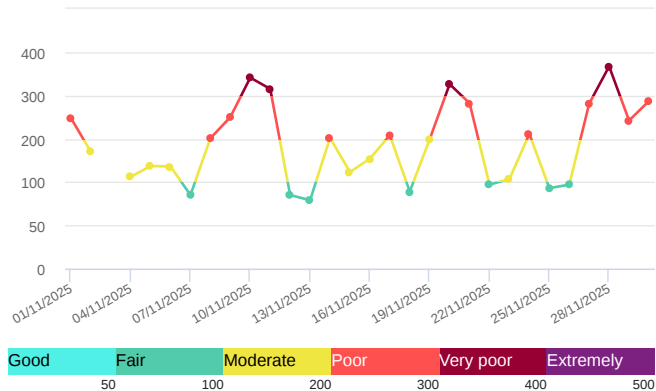
|         | EAQI<br>AQI | NO <sub>2</sub><br>µg/m <sup>3</sup> | O <sub>3</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>ppb | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> |
|---------|-------------|--------------------------------------|-------------------------------------|------------------------|----------------------------------------|---------------------------------------|
| Average | 217         | 21.77                                | 0                                   | 1.98                   | 28.17                                  | 58.39                                 |
| Maximum | 367         | 122.74                               | 21.01                               | 30.89                  | 61.17                                  | 133.57                                |
| Date    | 28/11/2025  | 01/11/2025                           | 28/11/2025                          | 28/11/2025             | 28/11/2025                             | 28/11/2025                            |
| Minimum | 79          | 0                                    | 0                                   | 0                      | 10.74                                  | 25.42                                 |
| Date    | 13/11/2025  | 11/11/2025                           | 01/11/2025                          | 08/11/2025             | 05/11/2025                             | 05/11/2025                            |

Prezentare generală zilnică: Alți parametri

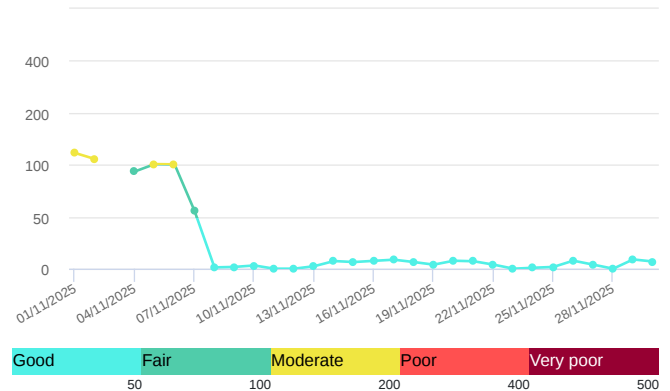
|         | Wind Speed<br>m/s | Wind Direction<br>degree | Battery<br>% | CO<br>ppb  | R. Humidity<br>% | PM <sub>1</sub><br>μg/m <sup>3</sup> | PM <sub>100</sub><br>μg/m <sup>3</sup> | Pressure<br>HPa | Temperature<br>°C |
|---------|-------------------|--------------------------|--------------|------------|------------------|--------------------------------------|----------------------------------------|-----------------|-------------------|
| Average | 0.21              | 76.63                    | 80.66        | 471.34     | 82.94            | 22.96                                | 72.71                                  | 986.74          | 8.08              |
|         |                   |                          |              |            |                  |                                      |                                        |                 |                   |
| Maximum | 3.25              | 255.64                   | 100          | 1002.5     | 89.77            | 49.5                                 | 175.27                                 | 996.14          | 14.18             |
| Date    | 18/11/2025        | 18/11/2025               | 05/11/2025   | 20/11/2025 | 10/11/2025       | 20/11/2025                           | 28/11/2025                             | 05/11/2025      | 17/11/2025        |
|         |                   |                          |              |            |                  |                                      |                                        |                 |                   |
| Minimum | 0.22              | 56.59                    | 31.99        | 355.21     | 61.74            | 9.12                                 | 36.14                                  | 976.69          | 1.11              |
| Date    | 12/11/2025        | 12/11/2025               | 27/11/2025   | 11/11/2025 | 25/11/2025       | 05/11/2025                           | 06/11/2025                             | 25/11/2025      | 24/11/2025        |

## Weekly Average

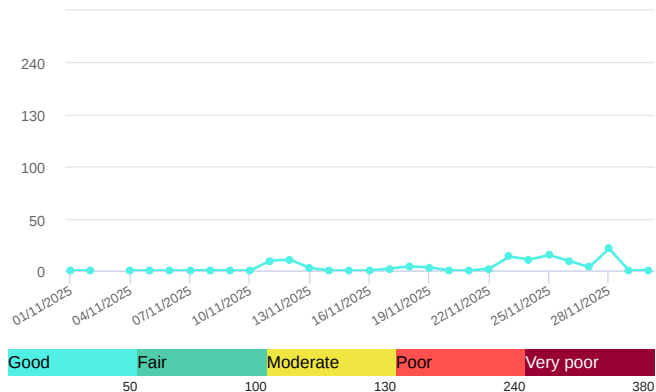
### EAQI (AQI)



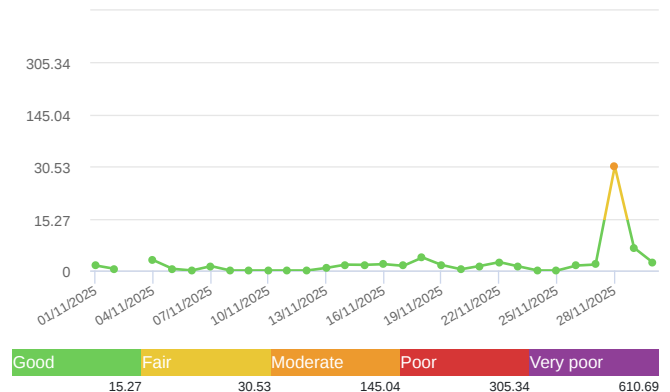
### NO<sub>2</sub> (µg/m<sup>3</sup>)



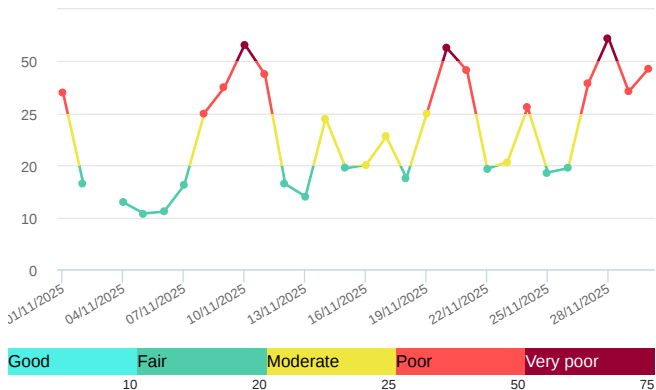
### O<sub>3</sub> (µg/m<sup>3</sup>)



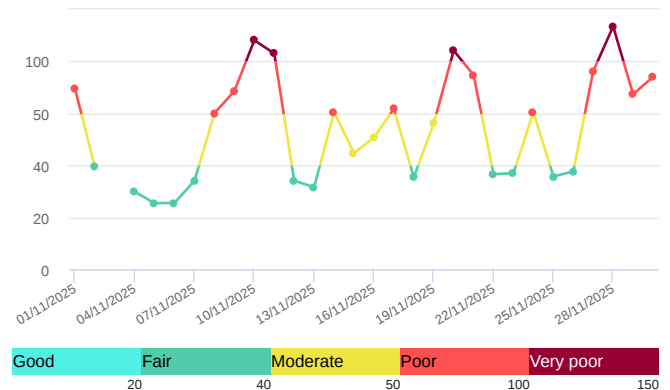
### SO<sub>2</sub> (ppb)



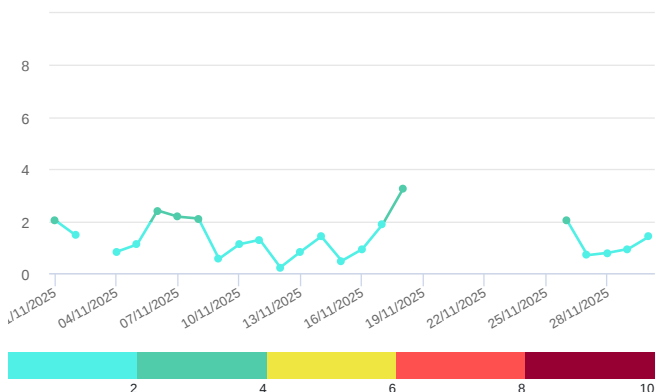
### PM<sub>2.5</sub> (µg/m<sup>3</sup>)



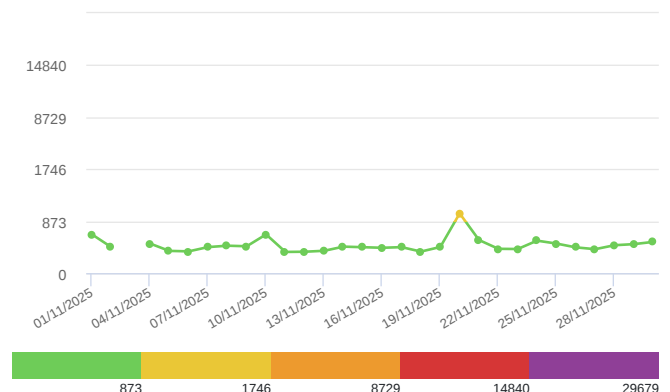
### PM<sub>10</sub> (µg/m<sup>3</sup>)



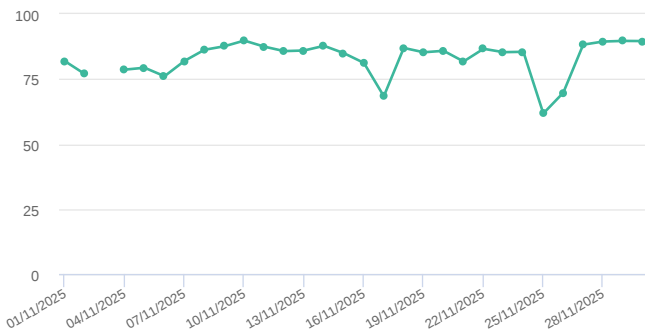
### Wind Speed (m/s)



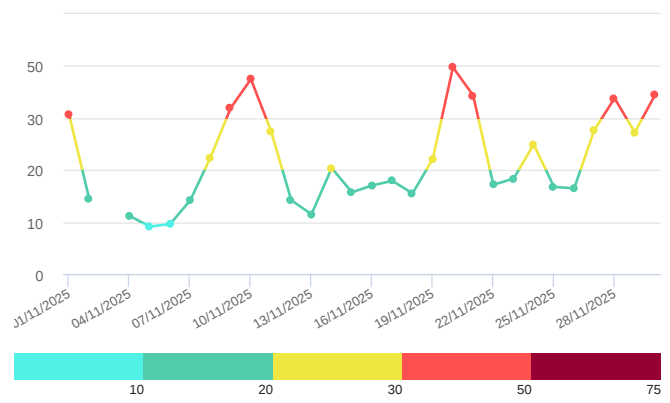
### CO (ppb)



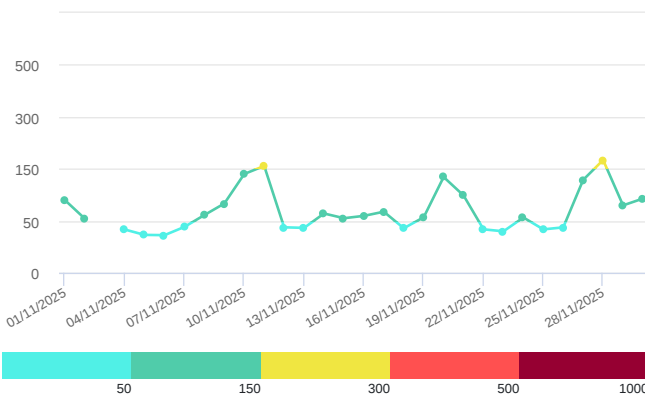
R. Humidity (%)



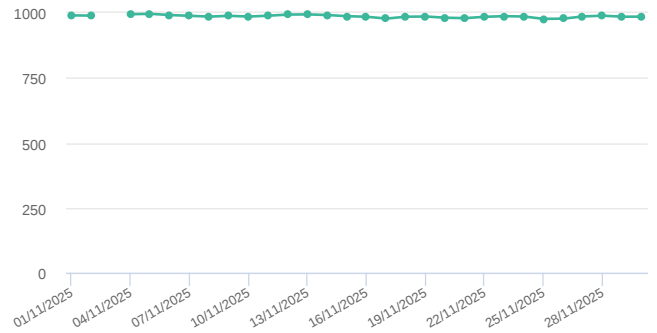
PM<sub>1</sub> (µg/m<sup>3</sup>)



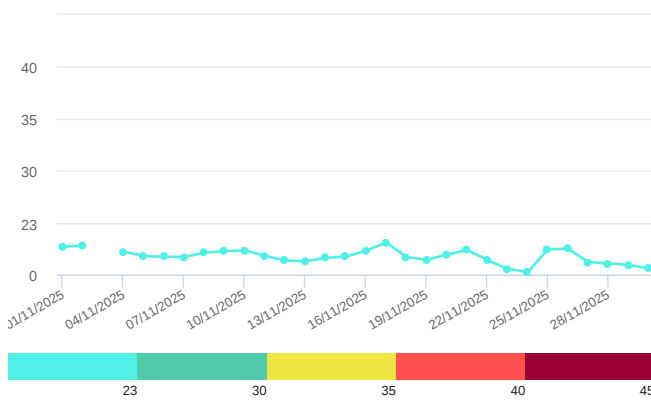
PM<sub>100</sub> (µg/m<sup>3</sup>)



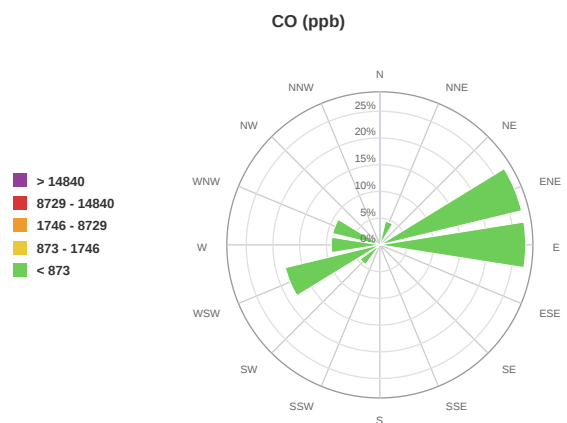
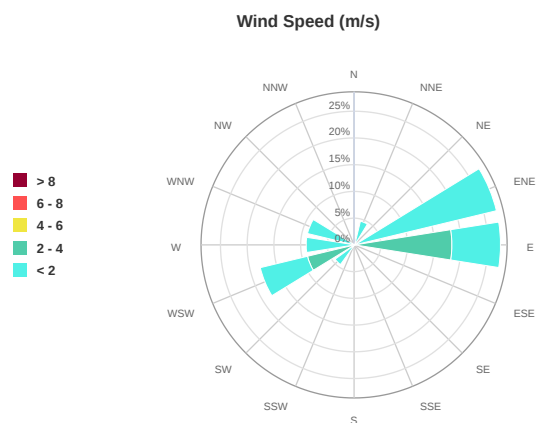
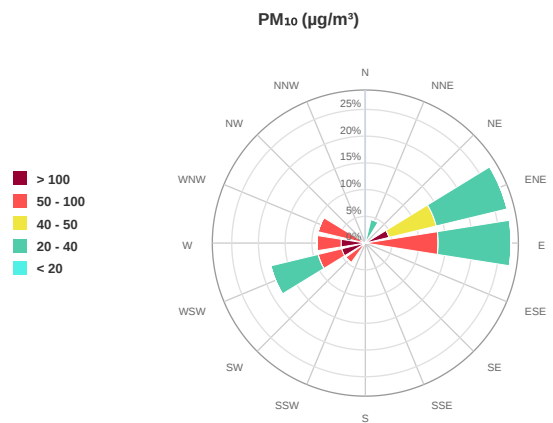
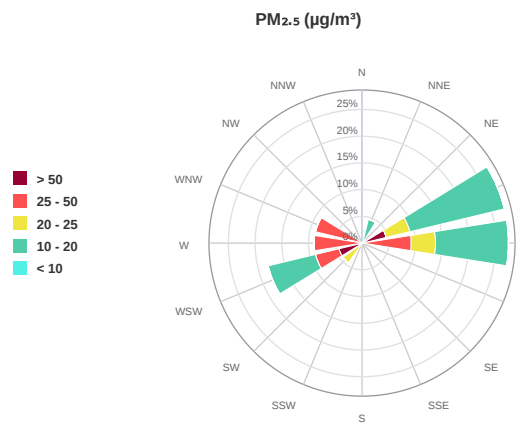
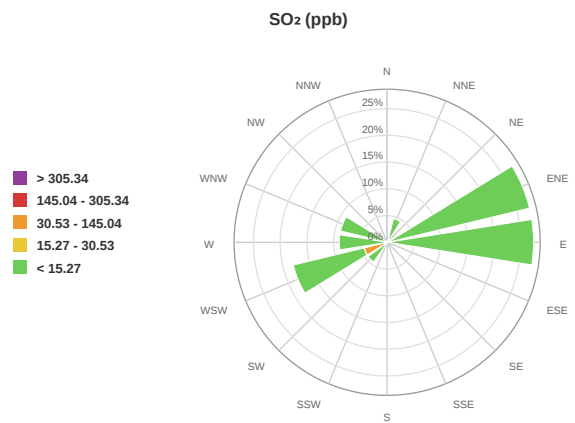
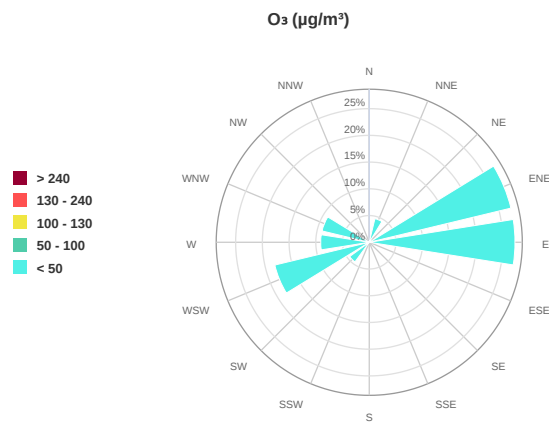
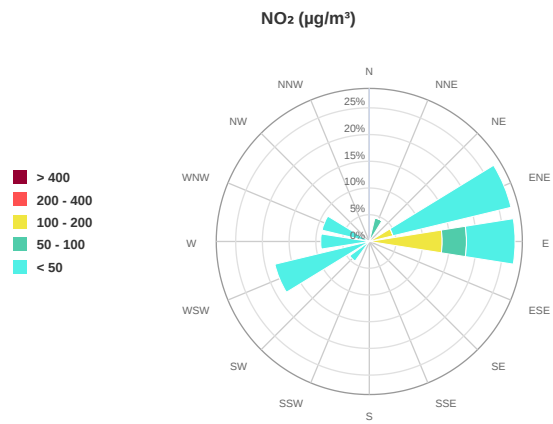
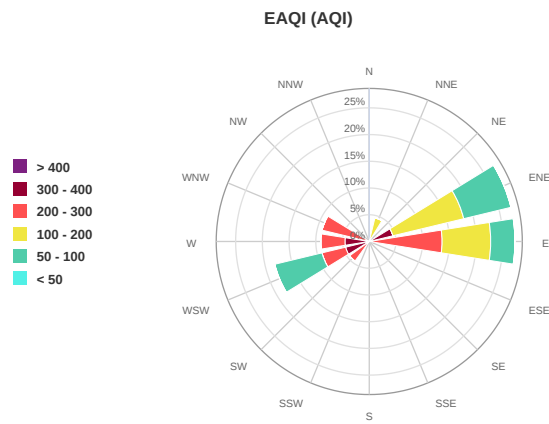
Pressure (hPa)



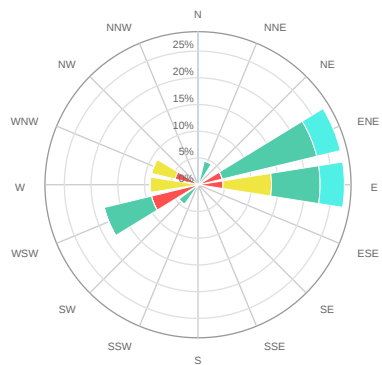
Temperature (°C)



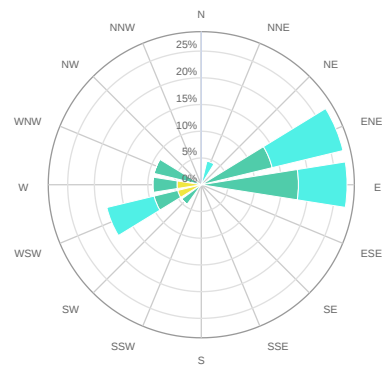
## Weekly Average



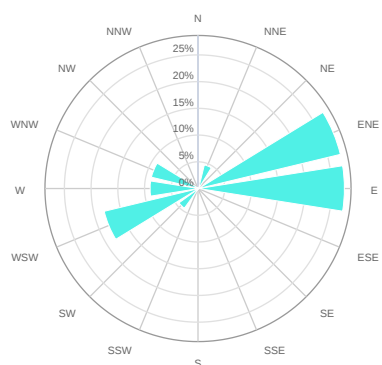
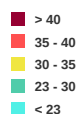
PM<sub>1</sub> (µg/m<sup>3</sup>)



PM<sub>100</sub> (µg/m<sup>3</sup>)



Temperature (°C)



## Alerte

No alerts for the selected date and time range

## Insights

- 30/11/2025, 23:59 **Elevated EAQI Levels Dominate November:** EAQI values frequently fall within the 'Poor' and 'Very Poor' categories, suggesting consistent air quality issues during this period. This requires further investigation.
- 30/11/2025, 23:59 **Zero Ozone Levels Correlate with Poor Air Quality:** Many instances of 'Poor' or 'Very Poor' EAQI coincide with ozone levels reported as zero, indicating a potential issue with ozone measurement or a chemical reaction consuming ozone.
- 30/11/2025, 23:59 **PM<sub>2.5</sub> Exceeds Safe Levels:** PM<sub>2.5</sub> values often exceed the 'Moderate' range, frequently reaching 'Poor' levels and occasionally 'Very Poor'. This poses a potential health risk.
- 30/11/2025, 23:59 **PM<sub>10</sub> Frequently Reaches Poor Air Quality Levels:** PM<sub>10</sub> concentrations often reside within the 'Poor' and 'Very Poor' categories, signifying significant particulate matter pollution.
- 30/11/2025, 23:59 **Fair Air Quality Observations:** There are instances of 'Fair' air quality readings, showing the presence of less polluted times, with lowest EAQI observed as 79 on 2025-11-13.
- 03/11/2025, 23:59 **Data Gaps Present Challenges for Analysis:** Missing data on 2025-11-03 hinders a complete and continuous assessment of air quality trends, potentially impacting the accuracy of overall conclusions.
- 30/11/2025, 23:59 **High Relative Humidity is present:** Relative humidity is consistently high, generally above 75%, which can exacerbate the effects of particulate matter pollution.
- 20/11/2025, 23:59 **Elevated CO Levels Recorded:** CO levels exhibit high values, exceeding 1000 ppb on 2025-11-20, potentially indicative of industrial activity or combustion processes.
- 30/11/2025, 23:59 **Variable Wind Speeds Observed:** Wind speeds vary considerably, ranging from 0.22 m/s to 3.25 m/s, potentially influencing the dispersion of pollutants in the area.
- 30/11/2025, 23:59 **Temperature Fluctuations:** The temperature ranges from 1.11°C to 14.18°C, which might play a role in the formation and dispersion of certain pollutants.
- 30/11/2025, 23:59 **NO<sub>2</sub> Levels Frequently Exceed Fair Threshold:** NO<sub>2</sub> values often surpass the 'Fair' threshold, suggesting significant nitrogen dioxide pollution, primarily from industrial sources and combustion.
- 29/11/2025, 23:59 **Impact of Wind Direction:** Prevailing wind directions, especially those around 250-260 degrees, could indicate a specific source contributing to pollution events.
- 30/11/2025, 23:59 **Battery Readings are generally high:** The readings for battery percentage on the recording machine are generally high, meaning the quality of the readings is unlikely to be battery constrained.
- 30/11/2025, 23:59 **SO<sub>2</sub> Levels Mostly in Good Range:** SO<sub>2</sub> levels are mostly in the 'Good' range, except for one reading on 2025-11-28 that is significantly higher. Likely a localised event.
- 30/11/2025, 23:59 **Pressure Readings are consistent:** The pressure readings, in hPa, are generally consistent. This provides a reliable base for comparing the other pollutant readings.
- 30/11/2025, 23:59 **High PM<sub>1</sub> Concentrations during Very Poor EAQI:** Elevated PM<sub>1</sub> levels often coincide with periods of 'Very Poor' EAQI, highlighting the contribution of ultra-fine particles to overall pollution.
- 30/11/2025, 23:59 **PM<sub>100</sub> Readings Mirror PM<sub>10</sub> Trends:** PM<sub>100</sub> levels tend to follow the same patterns as PM<sub>10</sub>, suggesting a similar origin or source for these larger particulate fractions.
- 30/11/2025, 23:59 **Influence of Temperature on Air Quality:** Lower temperatures seems to correlate with poorer air quality on several days (e.g. 2025-11-28) which could be due to industrial heating processes.
- 28/11/2025, 23:59 **SO<sub>2</sub> Peak on 2025-11-28 requires scrutiny:** The spike in SO<sub>2</sub> levels on 2025-11-28, to 30.89 ppb, suggests a possible industrial release. Review source data and external info for the source of this peak.
- 30/11/2025, 23:59 **Inconsistent readings: Zero Ozone:** Ozone level set to 0 for majority of the reading days. This indicates a sensor malfunction or sensor quality issues, that needs to be looked at.
- 07/11/2025, 23:59 **NO<sub>2</sub> Levels Highest Early November:** NO<sub>2</sub> levels are generally higher during the first week of November, indicating variations in industrial operations or weather patterns.
- 28/11/2025, 23:59 **Highest EAQI reading on November 28th:** The highest EAQI reading of 367 occurred on the 28th of November. This is flagged as 'Very Poor'. Requires further investigation of all parameters.
- 30/11/2025, 23:59 **Elevated PM<sub>2.5</sub> impacts AQI:** Elevated PM<sub>2.5</sub> values observed, which drive AQI high. This calls for investigation for source reduction activities for PM<sub>2.5</sub> to improve overall AQI.
- 30/11/2025, 23:59 **Wind patterns affect dispersion:** Observe correlation of wind direction, speed, and AQI parameters. Low wind and specific wind directions may cause accumulation of pollutants.
- 30/11/2025, 23:59 **CO readings are above threshold:** CO parameter readings are above defined limits on multiple days. Need to check for possible calibration of sensor or look for point source pollution for CO.
- 30/11/2025, 23:59 **PM<sub>1</sub> levels also track PM<sub>2.5</sub>:** Trend of PM<sub>1</sub> values seems to be following PM<sub>2.5</sub> trend, indicating that primary source of pollution is smaller particles
- 30/11/2025, 23:59 **Source attribution with backward trajectory:** Combine with wind and backward trajectory models to identify main source of PM and CO.

- 30/11/2025, 23:59 **Localized Industrial activity increase impact:** Readings suggest, that there are potential high polluting activities. Enforce standards and environmental policies for industry
- 30/11/2025, 23:59 **Higher Pollution Levels on Specific days:** Nov 1, Nov 10, Nov 20, Nov 27, Nov 28 and Nov 30 are more polluting days. Investigate the root cause with data of each day
- 30/11/2025, 23:59 **Missing data calls attention:** Missing wind speed and direction data requires attention. Need to troubleshoot data gathering infrastructure for better data capture

## Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

| To Date           | EAQI<br>AQI | NO <sub>2</sub><br>µg/m <sup>3</sup> | O <sub>3</sub><br>µg/m <sup>3</sup> | SO <sub>2</sub><br>ppb | PM <sub>2.5</sub><br>µg/m <sup>3</sup> | PM <sub>10</sub><br>µg/m <sup>3</sup> |
|-------------------|-------------|--------------------------------------|-------------------------------------|------------------------|----------------------------------------|---------------------------------------|
| 01/11/2025, 23:59 | 248         | 122.74                               | 0                                   | 1.46                   | 35.06                                  | 74.17                                 |
| 02/11/2025, 23:59 | 170         | 110.96                               | 0                                   | 0.48                   | 16.58                                  | 39.47                                 |
| 03/11/2025, 23:59 |             |                                      |                                     |                        |                                        |                                       |
| 04/11/2025, 23:59 | 112         | 93.47                                | 0                                   | 3.03                   | 12.85                                  | 29.85                                 |
| 05/11/2025, 23:59 | 137         | 101.23                               | 0                                   | 0.49                   | 10.74                                  | 25.42                                 |
| 06/11/2025, 23:59 | 136         | 100.72                               | 0                                   | 0.02                   | 11.09                                  | 25.56                                 |
| 07/11/2025, 23:59 | 85          | 55.64                                | 0                                   | 1.28                   | 16.19                                  | 34.1                                  |
| 08/11/2025, 23:59 | 201         | 1.27                                 | 0.39                                | 0                      | 25.18                                  | 50.1                                  |
| 09/11/2025, 23:59 | 250         | 1.69                                 | 0                                   | 0                      | 37.6                                   | 71.52                                 |
| 10/11/2025, 23:59 | 341         | 3.08                                 | 0                                   | 0                      | 58.16                                  | 120.29                                |
| 11/11/2025, 23:59 | 315         | 0                                    | 9.46                                | 0                      | 43.6                                   | 107.56                                |
| 12/11/2025, 23:59 | 85          | 0                                    | 10.39                               | 0                      | 16.41                                  | 34.1                                  |
| 13/11/2025, 23:59 | 79          | 2.4                                  | 2.43                                | 0.76                   | 14                                     | 31.55                                 |
| 14/11/2025, 23:59 | 202         | 7.37                                 | 0                                   | 1.72                   | 24.52                                  | 51.16                                 |
| 15/11/2025, 23:59 | 123         | 6.4                                  | 0                                   | 1.66                   | 19.44                                  | 42.35                                 |
| 16/11/2025, 23:59 | 154         | 7.54                                 | 0                                   | 1.86                   | 20.04                                  | 45.4                                  |
| 17/11/2025, 23:59 | 208         | 8.67                                 | 1.9                                 | 1.38                   | 22.76                                  | 54.22                                 |
| 18/11/2025, 23:59 | 89          | 6.38                                 | 3.93                                | 3.84                   | 17.58                                  | 35.42                                 |
| 19/11/2025, 23:59 | 199         | 3.9                                  | 3.03                                | 1.61                   | 24.95                                  | 48.05                                 |
| 20/11/2025, 23:59 | 326         | 7.65                                 | 0                                   | 0.37                   | 56.4                                   | 110.38                                |
| 21/11/2025, 23:59 | 282         | 7.16                                 | 0                                   | 1.34                   | 45.56                                  | 86.81                                 |
| 22/11/2025, 23:59 | 97          | 3.91                                 | 1.87                                | 2.46                   | 19.33                                  | 36.58                                 |
| 23/11/2025, 23:59 | 107         | 0                                    | 13.42                               | 1.19                   | 20.33                                  | 37.02                                 |
| 24/11/2025, 23:59 | 211         | 0.9                                  | 10.62                               | 0                      | 27.82                                  | 51.13                                 |
| 25/11/2025, 23:59 | 93          | 1.72                                 | 14.73                               | 0                      | 18.62                                  | 35.77                                 |
| 26/11/2025, 23:59 | 97          | 7.72                                 | 9.25                                | 1.45                   | 19.45                                  | 37.62                                 |
| 27/11/2025, 23:59 | 281         | 3.9                                  | 3.24                                | 1.76                   | 39.38                                  | 90.61                                 |
| 28/11/2025, 23:59 | 367         | 0                                    | 21.01                               | 30.89                  | 61.17                                  | 133.57                                |
| 29/11/2025, 23:59 | 242         | 8.92                                 | 0                                   | 6.68                   | 35.46                                  | 68.38                                 |
| 30/11/2025, 23:59 | 287         | 6.92                                 | 0.47                                | 2.25                   | 46.64                                  | 85.11                                 |

## Alti parametri

Weekly Average

| To Date           | Wind Speed<br>m/s | Wind Direction<br>degree | Battery<br>% | CO<br>ppb | R. Humidity<br>% | PM <sub>1</sub><br>µg/m³ | PM <sub>100</sub><br>µg/m³ | Pressure<br>HPa | Temperature<br>°C |
|-------------------|-------------------|--------------------------|--------------|-----------|------------------|--------------------------|----------------------------|-----------------|-------------------|
| 01/11/2025, 23:59 | 2.03              | 78.76                    | 99.35        | 650.81    | 81.87            | 31.34                    | 89.82                      | 990.19          | 12.35             |
| 02/11/2025, 23:59 | 1.46              | 79.46                    | 52.61        | 436.75    | 76.92            | 14.41                    | 54.06                      | 989.26          | 12.75             |
| 03/11/2025, 23:59 |                   |                          |              |           |                  |                          |                            |                 |                   |
| 04/11/2025, 23:59 | 0.82              | 28.04                    | 92.16        | 496.46    | 78.6             | 11.16                    | 41.59                      | 994.65          | 10.21             |
| 05/11/2025, 23:59 | 1.1               | 73.1                     | 100          | 372.96    | 79.33            | 9.12                     | 36.38                      | 996.14          | 8.17              |
| 06/11/2025, 23:59 | 2.41              | 88.67                    | 80.21        | 364.58    | 76.07            | 9.59                     | 36.14                      | 991.44          | 7.89              |
| 07/11/2025, 23:59 | 2.17              | 79.99                    | 39.41        | 436.31    | 81.95            | 14.17                    | 44.12                      | 988.49          | 7.76              |
| 08/11/2025, 23:59 | 2.1               | 85.14                    |              | 460.45    | 86.23            | 22.39                    | 60.97                      | 985.48          | 9.7               |
| 09/11/2025, 23:59 | 0.55              | 299.36                   |              | 450.04    | 87.59            | 33.82                    | 83.16                      | 988.32          | 10.35             |
| 10/11/2025, 23:59 | 1.11              | 58.91                    |              | 649.92    | 89.77            | 44.96                    | 140.03                     | 985.62          | 10.69             |
| 11/11/2025, 23:59 | 1.28              | 266.99                   |              | 355.21    | 87.46            | 27.46                    | 158.12                     | 988.93          | 8.3               |
| 12/11/2025, 23:59 | 0.22              | 56.59                    |              | 358.55    | 85.73            | 14.17                    | 43.68                      | 993.23          | 6.22              |
| 13/11/2025, 23:59 | 0.83              | 73.31                    |              | 374.18    | 85.96            | 11.48                    | 43.14                      | 993.89          | 5.81              |
| 14/11/2025, 23:59 | 1.41              | 80.57                    |              | 444.03    | 87.76            | 20.37                    | 64.04                      | 991.54          | 7.41              |
| 15/11/2025, 23:59 | 0.47              | 70.7                     |              | 434.88    | 84.92            | 15.7                     | 54.86                      | 987.06          | 7.92              |
| 16/11/2025, 23:59 | 0.92              | 72.8                     |              | 424.96    | 81.2             | 17.03                    | 59.38                      | 984.74          | 10.59             |
| 17/11/2025, 23:59 | 1.88              | 221.24                   |              | 435.96    | 68.36            | 17.9                     | 67.4                       | 977.85          | 14.18             |
| 18/11/2025, 23:59 | 3.25              | 255.64                   |              | 361.07    | 86.95            | 15.5                     | 42.78                      | 985.03          | 7.76              |
| 19/11/2025, 23:59 |                   |                          |              | 438.48    | 85.28            | 22.09                    | 56.74                      | 985.76          | 6.51              |
| 20/11/2025, 23:59 |                   |                          |              | 1002.5    | 85.84            | 49.5                     | 134.09                     | 981.14          | 8.79              |
| 21/11/2025, 23:59 |                   |                          |              | 555.11    | 81.74            | 38.7                     | 98.59                      | 979.51          | 10.83             |
| 22/11/2025, 23:59 |                   |                          |              | 408.02    | 86.62            | 17.15                    | 41.75                      | 984.65          | 6.48              |
| 23/11/2025, 23:59 |                   |                          |              | 404.41    | 85.32            | 18.33                    | 39.86                      | 987.14          | 2.54              |
| 24/11/2025, 23:59 |                   |                          |              | 544.38    | 85.46            | 24.91                    | 56.25                      | 985.7           | 1.11              |
| 25/11/2025, 23:59 |                   |                          |              | 495.98    | 61.74            | 16.75                    | 41.71                      | 976.69          | 11.11             |
| 26/11/2025, 23:59 | 2.03              | 257.43                   | 91.56        | 432.34    | 69.71            | 16.46                    | 43.66                      | 977.59          | 11.42             |
| 27/11/2025, 23:59 | 0.69              | 297.56                   | 31.99        | 401.87    | 88.21            | 27.72                    | 128.68                     | 986.11          | 5.52              |
| 28/11/2025, 23:59 | 0.78              | 256.44                   | 100          | 468.28    | 89.41            | 37.58                    | 175.27                     | 988.97          | 4.93              |
| 29/11/2025, 23:59 | 0.93              | 259.26                   | 100          | 486.37    | 89.65            | 27.24                    | 79.58                      | 985.01          | 4.27              |
| 30/11/2025, 23:59 | 1.4               | 254.68                   | 100          | 524.02    | 89.59            | 38.83                    | 92.74                      | 985.29          | 2.68              |

Oizom will not be responsible for Environmental Data accuracy once Validated