

People's Democratic Republic of Algeria

Ministry of Higher Education and Scientific Research

University of Larbi Ben M'hidi – Oum El Bouaghi

Report on the university's total waste volume in 2023

| Waste Sent to Landfill | Recycled Waste Volume | Total Waste Volume | Total Waste Volume |
|---------------------------|--------------------------|--------------------|--------------------|
| 46 | 28 | 74 | Jan-23 |
| 46 | 30 | 76 | Feb-23 |
| 45 | 27 | 72 | Mar-23 |
| 50 | 30 | 80 | Apr-23 |
| 41 | 25 | 66 | May-23 |
| 39 | 22 | 61 | Jun-23 |
| 40 | 23 | 63 | Jul-23 |
| 45 | 27 | 72 | Aug-23 |
| 47 | 30 | 77 | Sep-23 |
| 40 | 24 | 64 | Oct-23 |
| 48 | 29 | 77 | Nov-23 |
| 52 | 25 | 77 | Dec-23 |
| 539 | 320 | 859 | Total |



The waste management data for the year 2023 at Oum El Bouaghi University provides insights into how waste was handled, including recycling efforts and waste sent to landfills. Here's a detailed analysis based on the figures provided:

Total Waste Volume:

- The university generated a total of **859 tons** of waste throughout the year.
- The peak month for waste generation was **April**, with **80 tons**, likely due to increased university activities or seasonal factors.
- The lowest waste generation was in **June**, with only **61 tons**, potentially due to fewer on-campus activities during the summer break.
- Waste production appears relatively stable throughout the year, fluctuating between **61 and 80 tons**, with slightly higher values in the spring and early fall.

Recycled Waste Volume:

- The total recycled waste volume for the year was **320 tons**, representing **37.2%** of the total waste.
- The highest recycling effort occurred in **September and April**, where **30 tons** of waste were recycled in each month. This suggests that these months had successful recycling campaigns or higher awareness among the university community.

- The lowest amount of recycling was in **June**, with only **22 tons** of waste recycled. This could be linked to reduced student and staff presence on campus during that period.
- Despite the fluctuations, the university consistently recycled between **22 and 30 tons** of waste per month, indicating a solid recycling infrastructure.

Waste Sent to Landfill:

- The university sent a total of **539 tons** of waste to the landfill, which accounts for **62.8%** of the total waste.
- The month with the highest amount of waste sent to the landfill was **December**, with **52 tons**, likely due to end-of-year activities or reduced recycling efforts.
- **June** saw the lowest landfill waste, with only **39 tons** sent to the landfill, aligning with the lower overall waste generation during that month.
- Waste sent to the landfill generally remained higher than recycled waste each month, showing that the university still relies heavily on landfilling.

Key Observations:

- **Recycling rates:** While the university has made strides in recycling, with more than a third of waste being recycled, there is still room for improvement to reduce landfill reliance.
- **Fluctuating patterns:** The peaks in waste generation and recycling may correspond to academic activities, exams, or events held on campus.
- **Future goals:** To enhance its sustainability profile, Oum El Bouaghi University could target increasing recycling rates to reach at least 50% of the total waste volume by investing in better recycling campaigns, awareness programs, and infrastructure improvements.

Recommendations:

- **Increase Recycling Awareness:** Boost recycling awareness programs during high-waste months such as April, September, and December.
- **Optimize Waste Sorting:** Introduce more efficient waste sorting systems on campus to capture a higher percentage of recyclable materials.
- **Reduce Landfill Dependency:** Encourage more sustainable practices to decrease waste sent to landfills by promoting waste minimization strategies, like reducing single-use items and composting organic waste.

By continuing to focus on sustainability, the university can set an example for its students and staff while also contributing positively to the environment.