

AMUT GROUP AND CARBONLITE WORKING TOGETHER TO IMPROVE PLASTIC BOTTLES RECYCLING & SUSTAINABILITY

“We are glad to have scored another top reference in the Northern America plastic recycling market. The CarbonLITE PET recycling project comes after the two mega PET recycling plants that AMUT supplied in North America to UNIFI in Reidsville, North Carolina, and to PETSTAR Coca-Cola Mexico” stated Mr. Piergianni Milani, the President of AMUT GROUP.

The new CarbonLITE recycling facility, located in Dallas - Texas, started operations in September 2017, as per the schedule. **The washing line supplied by AMUT has the state of art of the technology and is the second plant of this size in operation in the USA, capable of producing over 12.000 pounds per hour of highest quality PET from MRF post-consumer bales.**

Mr. Leon Farhanick, the President of CarbonLITE, declared “I’m very satisfied with quality, punctuality and technology. Among the many OEM we had in this project AMUT is the one that pleased us best”.



This 250.000-square-foot bottle-to-bottle PET recycling plant processes more than 100 million pounds plastic bottles annually and the AMUT washing section is capable of reaching 6 metric tons per hour (the Dallas facility will double the company’s annual capacity of food-grade PET) and permits the transformation of old plastic bottles into PET resins, flakes and pellets that can then be used to produce new beverage bottles and other sustainable products.



Closing the LOOP ON RECYCLING and increasing the sustainability of the PET containers!

“CarbonLITE management has over a decade of experience in PET wash lines and selected the AMUT solution to face the new challenges in the market conditions for their Dallas operations. Considering that AMUT is one of the major OEM supplier for their system, we integrated our De-Labeler AMUT’s patent technology and as well the wet whole bottle pre-wash” stated Anthony Georges, President of AMUT NORTH AMERICA.

Mr. Georges further discussed how the AMUT De-Labeler won the prestigious PLASTIC RECYCLING INNOVATION AWARD from the APR (Association of Plastic Recyclers) in 2017.



“When you are dealing with co-mingled MRF bottle bales you need to be able to detect and remove all non-PET and colour PET containers prior to entering the final washing process. Georges continued – “by utilizing our double stage we perform with the first De-Labeler the dry cleaning action able to detach most of the shrink sleeve labels, while the second unit is a wet De-Labeler process to pre-wash the whole bottles and reduce wear effect on grinders blades. This wet bottle washing technology utilizes the filtered recycled flake washing water therefore it does not

increase the consumption of fresh water used in the complete cleaning process, and contributes to the elimination of outside dirt as well as remaining labels on the whole bottles”.

Critical to the AMUT technology is that **the bottles stay intact through these two machines and are not damaged during the actions of De-Labeler** therefore improving efficiency and the functionality of the following automatic sorting equipment so that the non-PET and colour PET can be easier removed from the clear PET bottle stream. The clear PET bottles will be washed directly in the AMUT wash flake system.

AMUT scope of machinery & technology supplied includes as well, the wet grinding system to turn bottles into flakes, along with two of the **AMUT patented Flake Friction Washers, and two of their newest advance technology ‘Sink-Float’ separation machines**, which are able to capture the polyolefin caps so that these cleaned caps can also be valued.

The whole process is engineered to increase the grade quality of the clear PET flakes which comply with the most demanding bottle-to-bottle applications, optimizing the value of every bale, while minimizing operational costs, fresh water usage, energy and cleaning agents.