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## VAN DYK NEWS

Presenting the newest technologies for cost-efficient recycling.

## MEXICO LEAPFROG'S THE US IN PROCESSING TECHNOLOGY

Puebla, Mexico (located just 1.5 hours south of Mexico City) is now home to what is likely the most advanced municipal solid waste (MSW) processing plant in North America.

This unique plant takes in MSW from the surrounding area and creates three streams: organics, refuse-derived fuel (RDF) and recyclables.

The revolutionary system design was developed by the Van Dyk engineering team in close collaboration with its partners at Bollegraaf and TOMRA. It has a rated production capacity of 30 to 50 tons per hour.

"This plant is the first of its kind in Mexico, and we are very proud of it," says Pablo León, principal at Groupo CIP. "We understand that this plant is not only unique to Mexico but unique to all of North America."

The advanced processing system, designed and built expressly for Groupo CIP, which owns and operates the facility, integrates trommels, light/heavy separation, ellipticals, TOMRA optical sorters, magnets and eddy current separators. Inbound material passes through a size-reduction phase to open the bags.

The system yields 30 percent organics, 30 percent RDF and 13 percent recyclables. Plastics, aluminum, ferrous and paper comprise the recyclables stream. Just 25 to 30 percent post processing residuals remain.

All recyclables are baled on-site for sale into their respective commodity markets.

The RDF stream is shredded to 1.5 inch minus and sold to create a significant positive cash flow for the operator.

Van Dyk worked closely with Groupo CIP to develop a technology-driven solution for its market needs. Groupo CIP had opportunities in RDF, but also in organics and recyclables. By leveraging its extensive plant design experience and that of its partners, Van Dyk was able to deliver another breakthrough plant.

"We originally tried manual separation of MSW," León says. "It did not work. Material came by a foot thick, and it was impossible to sort."

He continues, "The current system is automatic and gives us high recovery of recyclables and organics, but also makes 30 percent of our input into sellable 40-millimeter RDF with no chloride content. We were skeptical, but Van Dyk said they could do it, and they did. It's better than we ever thought possible."



## PRODUCTION CAPACITY

30-50

TONS PER HOUR

## SYSTEM RECOVERY:

30%

**ORGANICS** 

30% 13% **RDF** 

RECYCLABLES

ORGANICS

RDF

RECYCLABLES

RESIDUALS



WE UNDERSTAND THAT THIS PLANT IS NOT ONLY UNIQUE TO MEXICO BUT UNIQUE TO ALL OF NORTH AMERICA.

