

2015 TEEA Winner Technical/Technology Category: Chevron Phillips Chemical Company

John Carlson, Plant Manager

Chevron Phillips Orange Facility produces high density polyethylene off two platforms. The company itself has been in the Orange area for 60 years. About four years ago, we came up with a really good idea to help reduce our overall environmental profile and lower our hazardous waste.

Aidan Seawalt, Processing Engineer

Various waste streams come off of our manufacturing process; isopentane is one of them.

Gina James, Environmental Specialist

We looked at the numbers, and felt like that was something that we could attack, putting in an isopentane recovery unit to help reduce that hazardous waste generation.

Leanord Powell, Operations Representative

The design of the project from the original conception was chosen to be one that was very hands off, a lot of automation. This was to ensure that the process upsets were kept to a minimal. The unit performs the same way each time it's operated and delivers a very consistent end product.

Gina James

It takes the stream of material that comes off as a process stream, and it's a distillation type process.

Aidan Seawalt

Seventy-six percent of the waste that the unit processes is recoverable. It's pure enough to be used back in our process stream.

John Carlson

Not only are we reducing our environmental waste, which is great for the community and great for our employees, but we're also saving money and recovering isopentane for the system.

James Talton, Operations Manager

That's just that much less trucks that are on the roadways, and also less material that has to be disposed of.

Leanord Powell

The folks that work here at Orange, live here in the community. We have children and now grandchildren in the community, so we are very proud of the fact that we've minimized the footprint we have on the environment here.