



Community Update

May 2017

Refinery provides environmental update

At the last Community Advisory Panel (CAP) meeting at the Marathon Petroleum Detroit refinery, General Manager Dave Roland told local residents that the first three months of the year had been outstanding from a safety and environmental standpoint. The facility had no designated environmental incidents and only one minor injury.

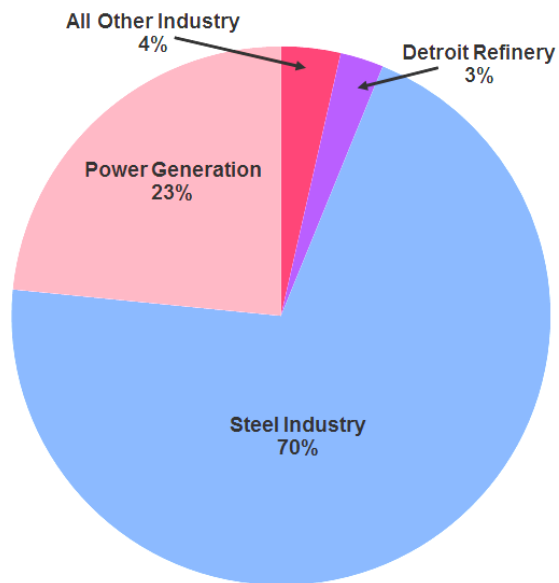
“Last year we did not perform as well as we would have liked when it comes to safety, and

that has been our focus for several months,” said Roland. “Thanks to everyone’s effort, that’s paying off.”

Refinery Environmental Supervisor Greg Bennethum provided an environmental update that focused on the refinery’s emissions reductions, as well as where the refinery fits into the overall emissions picture for this heavily industrialized part of Detroit (see charts on this page).

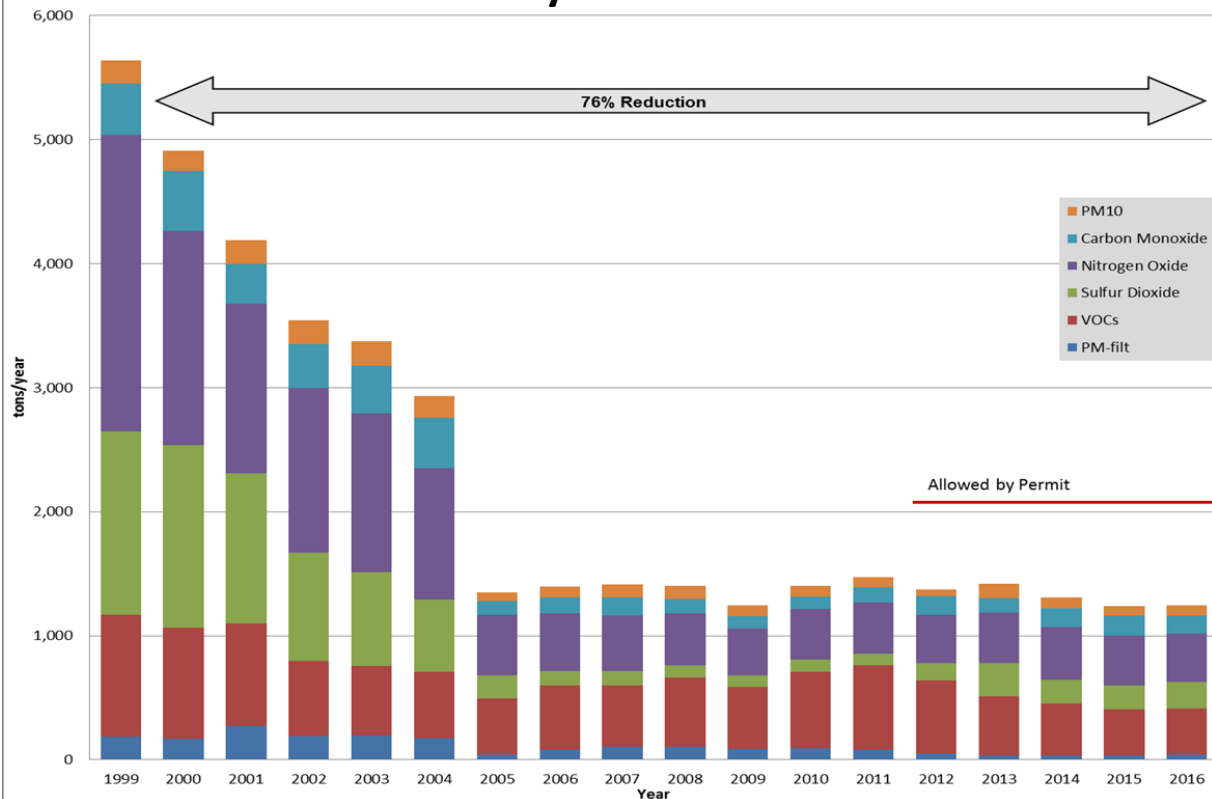
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Emissions: 2-mi. radius of refinery



This pie-chart shows the latest data from the Michigan Air Emissions Reporting System, which, as of April of this year, includes data for all of 2015. Emissions include nitrogen oxides, carbon monoxide, sulfur dioxide, particulate matter, and volatile organic compounds.

Refinery annual emissions



Left: From 1999 through last year, Marathon Petroleum’s Detroit refinery has reduced its emissions by 76 percent.

Above: According to the latest figures available from the state of Michigan, the refinery’s emissions comprise 3 percent of the emissions in the industrial region within a two-mile radius of the facility.

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In addition to continually improving its own operations, Bennethum said the refinery also has installed four air monitoring stations in the vicinity. "These monitors provide us with information about the air emissions, not necessarily from the refinery, but from any and all sources in the area," said Bennethum. "Depending on



One of the four air monitoring stations installed by the Detroit refinery in 2011. The monitors are operated by a contracted company. The data is sent to the Michigan Department of Environmental Quality.

wind direction, these monitors will pick up emissions from other industrial sources, surrounding roads and highways, or even construction sites."

The monitors continually track sulfur dioxide, carbon monoxide, total reduced sulfur, and particulate matter. They also monitor 24-hour levels of volatile organic compounds once every six days. The monitors are maintained by a company contracted by Marathon Petroleum, and the data is supplied to the Michigan Department of Environmental Quality.

Bennethum also updated the attending CAP members on the refinery's benzene fence line monitoring program, which includes 17 sample locations all around the refinery. This monitoring is required by the U.S. Environmental Protection Agency's new "Refinery Sector Rule," and the refinery implemented the program earlier than the law requires.

The refinery's results so far have been very good. The Refinery Sector Rule sets an "action level" of 9 micrograms per cubic meter of air, and the refinery's annual average for each sample location have all been less than 1.8 micrograms for 2016.

Oakwood Heights wildlife habitat growing

Almost 40 volunteers from the Detroit refinery, its contractor companies, and nearby neighborhoods spent a recent sunny Wednesday planting 50 white pines, 25 white cedars, 20 sycamores, five red oak trees and 10 serviceberry bushes on Marathon Petroleum-owned property in the former Oakwood Heights neighborhood. The planting is part of an ongoing effort to develop an urban wildlife habitat area.

"We plan to develop a 12-acre forest bordered by five acres of prairie and an acre of new wetland," said Treva Formby, refinery environmental professional. "And this is part of a larger, longer-range vision for a green space called Marathon Gardens, encompassing about 100 acres and including wildlife habitat restoration, park-like areas and urban farming."

The refinery also partnered with Wayne County on an invasive species control program on the nearby Fordson Island Oxbow channel on the Rouge River.

