

# 2016 Illinois Governor's Sustainability Award Winner

## MARATHON PETROLEUM CORPORATION— ILLINOIS REFINING DIVISION



Marathon Petroleum Corporation (MPC) has extensive refining, marketing, and transportation operations concentrated primarily in the Midwest, Northeast, East Coast, Gulf Coast, and Southeast regions of the United States. MPC is the third-largest refiner in the U.S. and the largest in the Midwest. The Robinson refinery, also known as the Illinois

Refining Division (IRD), is located in Robinson, Illinois, has a crude oil refining capacity of approximately 231,000 barrels per calendar day and encompasses approximately 920 acres.

### POLLUTION PREVENTION AND SAFETY POLICIES

MPC is committed to the reduction of waste and pollution as evidenced in the Robinson refinery's Health, Environmental and Safety policy statements – "Prevention of Pollution & Resource Conservation: The IRD is committed to environmental protection and emphasizes resource conservation and the minimization of wastes, emissions and releases throughout our operations."

MPC is one of the only refining companies in the nation to have facilities certified under the American Chemistry Council's Responsible Care® requirements. The Robinson refinery has been certified as a Responsible Care® facility for nine years and is the only four-time winner of MPC's most prestigious award, known as the President's Award for Responsible Care®.

In addition, the Robinson refinery has been an OSHA Voluntary Protection Program site for 17 years, having received many national awards for its behavior-based safety programs. The Robinson refinery also received its first ENERGY STAR® certification in 2014 and was recertified in 2015.



### MATERIAL RECOVERY

The Robinson refinery implemented a new recycling program for control valves in 2015. The Fisher Core Recycling Program is a zero-waste initiative to help reduce the refinery's environmental footprint. Sixty-one pieces of equipment were shipped for recycling, totaling over 26,000 pounds of reduced waste and reinvesting over \$20,000 back into the Robinson refinery. This tremendous recycling effort was the product of collaboration between the Robinson refinery's Instrument Shop, Environmental Department, Warehouse, Procurement Department, and the Fisher Valve Company.

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### KEY STATISTICS

	<b>2,038</b> tons solid waste recycled
	<b>3,000,000</b> gallons of water saved
	<b>393</b> tons household hazardous waste diverted from landfills
	<b>18,792</b> metric tons CO <sub>2</sub> equivalents reduction
	<b>247</b> acres certified wildlife habitats restored

### ABOUT MPC'S ILLINOIS REFINERY DIVISION

Established: **1906**, purchased by MPC in **1924**

Location: **400 S. Marathon Avenue,  
Robinson, IL**

# of employees: **710**

Produces: **gasoline, distillates, propane,  
anode-grade coke, aromatics, fuel-  
grade coke and slurry**

NAICS code: **324110**

Website:  
[www.marathonpetroleum.com](http://www.marathonpetroleum.com)

### ABOUT THE ILLINOIS GOVERNOR'S SUSTAINABILITY AWARD

Since 1987, ISTC has presented Governor's Sustainability Awards to organizations in Illinois that have demonstrated a commitment to sustaining our environmental and economic health.

Any Illinois public or private organization is eligible to apply.

Find out more at:  
[istc.illinois.edu/istcawards](http://istc.illinois.edu/istcawards), or  
email: [istc-info@illinois.edu](mailto:istc-info@illinois.edu)



**TOOLS FOR SUCCESS**

A breakdown of strategies and technologies that enabled MPC's Robinson refinery to increase efficiency and reduce their environmental impact.

**Energy Use**

- ✓ Collaborated with vendors and experts to customize solutions
- ✓ Inspected and repaired steam traps to reduce failure to open
- ✓ Upgraded equipment and redesigned BEU system

**Water Use**

- ✓ Adjusted operations to reduce water sent to the refinery's wastewater treatment plant

**Waste Strategies**

- ✓ Utilized a centrifuge dewatering system with a Low Temperature Thermal Dryer
- ✓ Increased oil re-processing
- ✓ Worked with valve supplier to recycle and repair equipment

**Stakeholder Engagement**

- ✓ Supports employees in leading company and community sustainability initiatives
- ✓ Partners with environmental groups on land restoration projects

**ABOUT ISTC**

The Illinois Sustainable Technology Center is a division of the Prairie Research Institute at the University of Illinois at Urbana-Champaign.

ISTC's mission is to encourage and assist citizens, businesses and government agencies to prevent pollution, conserve natural resources and reduce waste to protect human health and the environment of Illinois and beyond. Visit our website at: [istc.illinois.edu](http://istc.illinois.edu).

**STAKEHOLDER ENGAGEMENT AND COMMUNITY INVOLVEMENT**

The Robinson refinery Committee for Awareness and Responsibility of Environmental Stewardship (CARES Green Team) is a diverse group of employees across all departments. They are very active and lead multiple community and company events to encourage recycling, reuse, sustainability, and waste minimization. Members of CARES Team are personally invested in the group by designing and implementing each project. Team members continually suggest new ways to support and sustain the community and world.

One of the CARES Team's largest endeavors is the Household Hazardous Waste Collection Day and Electronics Take Back. CARES annually helps the city of Robinson to

provide a one-day collection for citizens to bring household hazardous waste and electronics for proper disposal. MPC volunteers survey and help collect the

*"It is with great honor that Marathon Petroleum Company, Illinois Refining Division received the Illinois Governor's Sustainability Award. I am proud to represent the district of such an innovative and energy efficient organization."  
 Reggie Phillips, IL State Representative*

waste along with city of Robinson employees. Over 450 vehicles attended the collection day in 2014. Community members responsibly disposed of approximately 13,000 pounds of electronics, 9,000 pounds of flammable liquids, 65,600 pounds of paint, 1,500 pounds of fluorescent lamps, and 450 pounds of batteries. The event was held again in 2015 with 50,174 pounds of electronics collected and 734,890 pounds of household hazardous waste resulting in keeping 393 tons of hazardous waste from landfills.

**LAND USE & RESTORATION**



MPC has established wildlife habitat areas near multiple county schools to reduce erosion and encourage the education of students and the community regarding nature science. This, in turn, fosters environments suitable for plant and animal populations. Four certified Wildlife Habitat Council Sites have been developed that

contain walking paths, nesting boxes, native trees and prairie grasses, bee boxes, a log cabin built for an environmental science classroom, and other improvements and restorations. The Palestine Neal Pit site also utilizes solar panels and a wind turbine to power a pavilion.