

# Pall Corporation



Better Lives. Better Planet.sm

# About this Sustainability Report

Pall Corporation strives to improve continuously and be transparent in our reporting practices. We invite you along on our journey as we help to build better lives and a better planet.

This report reflects Pall's global operations and its subsidiaries for Fiscal Year 2013 (ended July 31, 2013) unless otherwise noted.

# Company Profile

Pall Corporation has become a global leader in the high-tech filtration, separation, and purification industry by meeting the diverse needs of customers across the broad spectrum of life sciences and industry. The company's highly engineered process solutions protect people and critical assets, while minimizing emissions and waste.

Manufacturers of all types as well as hospitals, laboratories, airlines, and municipal water suppliers rely on Pall filters to produce safe, high-quality products. They invest in them to protect precious fluids and the environment, and to prolong the life of expensive equipment. Pall's technological advances purify oils and gases, filter contaminants from water, protect the integrity of microelectronics, and accelerate the discovery, development, and production of biotech drugs.

The company has two segments, Life Sciences and Industrial:

#### Pall Life Sciences

Pall Life Sciences provides cutting-edge products and services to meet the demanding needs of customers discovering, developing, and producing biotech drugs, vaccines, cell therapies, and classic pharmaceuticals. The company's membranes and membrane devices optimize detection and sample preparation in the drug research, clinical diagnostics, genomics, and proteomics markets. Pall is a leading provider of separation systems, and single-use filtration and purification technologies to pharmaceutical and

biotechnology companies for diverse operations from cell culture to final formulation and filling. Pall also offers advanced medical technologies, which are often a patient's last line of defense from dangerous pathogens. For foods and beverages, Pall's products provide critical protection from contaminants during various manufacturing steps.

#### Pall Industrial

Pall Industrial serves an extremely diverse range of customers in fast-growing and established markets and regions. The company is a key supplier to the rapidly innovating and technically demanding semiconductor and consumer electronics industries, and has a long history of providing filtration products for use in critical applications on commercial and military aerospace vehicles. Pall products also are key to the reliability of construction and mining equipment. Pall engineered solutions help municipal and industrial customers economically address mounting water quality, scarcity, and demand issues. And the company helps energy companies maximize production and develop commercially successful cleaner-burning and alternative fuels.

Headquartered in Port Washington, Long Island, New York, Pall has offices and plants throughout the world. Pall's shares are listed on the New York Stock Exchange (PLL).

# Our Commitment to Sustainability

Pall Corporation provides customers with technologically superior products and engineered process solutions that strengthen their businesses while reducing their environmental impacts.

Pall's innovations purify and conserve water, consume less energy, help make alternative energy possible, advance medicine, and minimize emissions and waste. We are dedicated to helping customers minimize their carbon footprints, and ensure the most efficient utilization of water and other natural resources and raw materials.

Our approach to environmental stewardship is proactive and anchored in a culture of continuous improvement. We are integrating environmental sustainability metrics into our business by using globally accepted greenhouse gas assessment protocols to measure and manage greenhouse gas emissions.

In 2010 our Executive Team established new sustainability goals for FY13, calling for the reduction of waste generation, utilities use, and greenhouse gas emissions relative to our FY06 baseline as follows:

- Reduce Utilities Usage Intensity by 20%
- Reduce Waste Intensity by 20%
- Increase Reuse/Recycling Intensity by 16%
- Reduce Green House Gas (GHG) Intensity by 18%

Pall recognizes the need to balance proactive environmental stewardship with strong economic performance. The projects and activities undertaken to achieve our FY13 energy, waste, and greenhouse gas reduction goals also contributed to cost savings for our operations.

While we expand the company, we continue to reduce our carbon impact.

# Energy & Water Usage

# **Energy Intensity** (MJ/\$ Net Sales)



### Water Intensity (Mgal/\$M Net Sales)

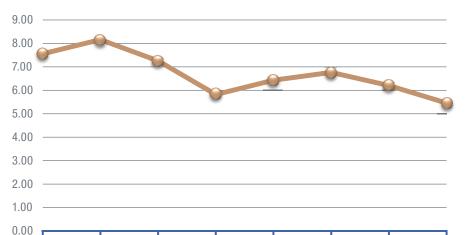


	FY13	Change FY06-13
Energy Intensity (MJ/\$ Net Sales)	0.46	-25.35%
Total Energy (Gigajoules)	1,227,844	

	FY13	Change FY06-13
Water Intensity (Mgal/\$M Net Sales)	0.15	-31.15%
Total Water (Millions Gallons)	389	

# Waste Generation & Recycling

# Waste Intensity (Tons/\$M Net Sales)



### Recycling Intensity (Tons/\$M Net Sales)



	FY13	Change FY06-13
Waste Intensity (Tons/\$M Net Sales)	5.46	-27.80%
Total Waste (Tons)	14,449	

FY09

FY10

FY11

FY12

**FY13** 

FY08

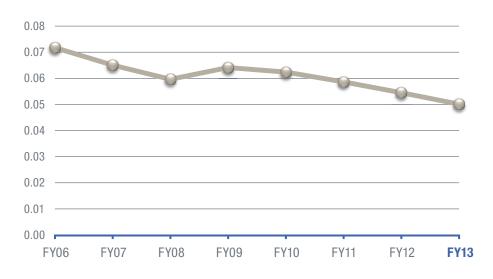
FY07

FY06

	FY13	Change FY06-13
Recycling Intensity (Tons/\$M Net Sales)	4.64	+102.25%
Total Recycling (Tons)	12,282	

# Greenhouse Gas Generation

### **GHG Intensity** (Kg CO<sub>2</sub>e/\$ Net Sales)



	FY13	Change FY06-13
<b>GHG Intensity</b> (Kg CO <sub>2</sub> e/\$ Net Sales)	0.05	-30.08%
Total GHG (Metric Tonnes CO <sub>2</sub> e/\$ Net Sales)	132,813	

#### Meeting International Environmental Standards

ISO 14001 is the international standard for environmental management systems. In FY13, 100% of Pall's manufacturing operations worldwide had achieved ISO 14001 certification<sup>(1)</sup>. The program has helped Pall minimize environmental impact, improve compliance, and reduce both risk and costs.

Pall's manufacturing operations comprise about 62% of the company's total square footage of leased or owned properties.

### Reducing Our Carbon Footprint

Pall is a participant the in the UK Carbon Reduction Commitment (CRC)<sup>(2)</sup> and has been a proud contributor to the Carbon Disclosure Project since 2008. In that year Pall joined with many other companies in this global initiative to inventory GHG emissions and evaluate the risks and opportunities from climate change on business operations. Our annual GHG inventory provides important baseline information that is used to make informed and effective policy decisions to reduce Pall's carbon footprint.

<sup>(1)</sup> Excludes any acquisition after FY 2013

<sup>(2)</sup> The UK CRC is a program by the UK Government requiring all companies with carbon emissions to participate in carbon emission reduction programs and develop and report carbon inventories

# New Goals for Fiscal Year 2017

We have been challenged by our Executive Team to meet new sustainability goals for FY17, calling for the reduction of waste generation, utilities use, and greenhouse gas emissions relative to our new FY13 baseline<sup>(1)</sup> as follows:

- Reduce Utilities Usage Intensity by 10%
- Reduce Waste Intensity by 10%
- Increase Reuse/Recycling Intensity by 15%
- Reduce Green House Gas (GHG) Intensity by 10%







<sup>(1)</sup> Excludes any acquisition after FY 2013

# Leadership Recognition

# **Environmental Recognition**



#### ISO 14001 Certification

ISO 14001 is the international standard for environmental management systems. Worldwide, all of Pall's plants in FY 2013 have achieved ISO 14001 certification. Certified companies must provide assurance about their ability to satisfy quality requirements and to enhance customer satisfaction in supplier-customer relationships.

http://www.iso.org

NEWSWEEK

### Green Rankings

(June 2014) The Green Rankings comprehensively assess the environmental performance of the largest publicly traded companies in America and around the world. This companies are ranked based on their actual environmental footprint, management of that footprint, and sustainability communications. The rankings provide a reliable, cross-industry framework for comparing the environmental commitment and performance of major companies.

http://www.newsweek.com/green



### Carbon Disclosure Project

(Since 2008) Pall participates in the Carbon Disclosure Project (CDP), a global initiative to inventory greenhouse gas (GHG) emissions and evaluate the risks and opportunities from climate change on business operations. Companies use their annual GHG inventory to make informed and effective policy decisions to reduce their carbon footprint. https://www.cdp.net



# Carbon Reduction Commitment (CRC) Ranking

(Since 2011) Pall Manufacturing UK Limited ranked in the top 5 percent of the Environment Agency's first annual CRC Performance League Table (PLT) in 2011 and has been a participant each year since. The PLT ranks the relative performance of organizations participating in the CRC energy efficiency program. https://www.gov.uk



#### Cleantech Index

(Since 2006) Pall is included in the Cleantech Index – the first stock market index intended to reflect the surging demand for clean technology products and services. The index is comprised of companies that are global leaders in Cleantech across a broad range of industry sectors, from alternative energy and energy efficiency to advanced materials and air & water purification.

http://www.cleantech.com



#### FTSE4Good

(Since 2001) Pall has been independently assessed according to the FTSE4Good criteria, and has satisfied the requirements to become a constituent of the FTSE4Good Index Series. FTSE4Good is an equity index series that is designed to facilitate investment in companies that meet globally recognized corporate responsibility standards.

http://www.ftse.com

# **Technology Recognition**



### Engineering Materials Achievement Award

(2010) Pall Corporation won the prestigious Engineering Materials Achievement Award (EMAA) for 2011 for its porous iron aluminide technology. Recognizing outstanding achievements in materials science, the award is given annually to one company by ASM International, a society dedicated to the development and commercialization of materials that advance production techniques and facilitate innovation. Previous winners include DuPont for aramid fiber, IBM for magnetic recording media, and AT&T Bell Labs for transoceanic optical fiber systems. http://www.asminternational.org



#### National Inventors Hall of Fame

(2008) Dr. David B. Pall, founder of Pall Corporation, was inducted into the National Inventors Hall of Fame. Dr. Pall's body of work in the field of filtration science earned him a place among legendary innovators including Alexander Graham Bell, Walt Disney, Thomas Edison and Henry Ford. http://www.invent.org



### National Medal of Technology

(1990) On behalf of Pall Corporation, Dr. Pall received the National Medal of Technology, the highest technology honor in the United States. Other past winners include Microsoft, Applied Materials, Proctor & Gamble and Johnson & Johnson.

http://www.uspto.gov

# **Business Recognition**



#### **NYSE**

(Since 1991) Pall Corporation is a publicly traded company listed on the New York Stock Exchange under the ticker PLL. Listed companies must continuously meet rigorous financial and governance requirements.

https://www.nyse.com



#### Fortune 1000

(Since 1991) Pall is included in the Fortune 1000, an annual list compiled and published by Fortune magazine that ranks the top 1000 U.S. closely held and public corporations by revenue.

https://connect.data.com



#### S&P 500

(Since 1987) Pall is included in the S&P 500 index – one of the most commonly used benchmarks for the overall U.S. stock market. The S&P 500 is a capitalization-weighted index published since 1957 of the prices of 500 large-cap common stocks actively traded in the United States.

http://www.standardandpoors.com

# Appendix: Environmental Summary

#### **Indexed Values**

	FY06	FY07	FY08	FY09	FY10	FY11 <sup>(2)</sup>	FY12	FY13	Change FY06-13
Energy (MJ/\$ Net Sales)	0.62	0.54	0.55	0.65	0.59	0.57	0.51	0.46	-25.35%
Water <sup>(1)</sup> (Mgal/\$M Net Sales)	0.21	0.20	0.18	0.17	0.18	0.18	0.18	0.15	-31.15%
Recycling (Tons/\$M Net Sales)	2.29	2.56	2.98	2.98	2.58	3.24	3.33	4.64	+102.25%
Waste (Tons/\$M Net Sales)	7.56	8.16	7.26	5.82	6.44	6.77	6.21	5.46	-27.80%
<b>GHG</b> (Kg CO <sub>2</sub> e/\$ Net Sales)	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	-30.08%
Net Sales (In Millions)	\$2,017	\$2,250	\$2,572	\$2,329	\$2,402	\$2,517	\$2,672	\$2,648	

All currency is stated in U.S. Dollars

### **Absolute Values**

	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13
Total Energy Consumed (MJ)	1,252,691	1,216,852	1,419,244	1,524,251	1,425,322	1,441,615	1,367,864	1,227,844
Total Water Consumed (1) (Mgal)	430	447	466	397	440	443	472	389
Total Recycled Material (Tons)	4,619	5,766	7,661	6,932	6,189	8,886	8,887	12,282
Total Waste Generated (Tons)	15,241	18,368	18,664	13,563	15,457	17,029	16,581	14,449
Total GHG Generated (Kg)	144,672.6	146,325.0	153,415.3	149,415.9	149,949.6	147,675.5	145,648.6	132,813.0

<sup>(1)</sup> Restated water use figures for FY06-FY10

<sup>(1)</sup> Indexed values are based on revised water used figures for FY06-FY10

<sup>(2)</sup> Restated FY11 Net Sales and associated Indexed Values

For information on Pall's ethics, compliance, and governance activities, visit www.pall.com/governance and www.pall.com/policies



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Pall Corporation has offices and plants throughout the world.



Better Lives.
Better Planet... To see how Pall is helping enable a greener, safer and more sustainable future, visit www.pall.com/green.

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