



INTRODUCTION

ABOUT THE COMPANY

Planar Systems, Inc. is a subsidiary of Leyard Optoelectronic Co. with operations in North America, Europe, and Asia.

REPORT SCOPE

Planar's headquarters is located in Hillsboro, Oregon and handles design, product testing, quality assurance, marketing, sales, and customer service activities. This facility has approximately 170 employees and a footprint of 72,000 square feet. Hillsboro is also home to Planar's Evergreen manufacturing facility with approximately 130 employees and a footprint of 61,000 square feet.

The scope of this report is limited to these locations and related activities that affect outside stakeholders and other interested parties.

Report format and content specifically address all four Entry Criteria listed in the *Performance Track Program Guide* published by the United States Environmental Protection Agency:

- Environmental Management System (EMS)
- Demonstrated Environmental Performance and Commitment to Continued Improvement
- Public Outreach and Performance Reporting
- Record of Sustained Compliance with Environmental Requirements

REPORT FREQUENCY

This report is published on an annual basis by the end of the first quarter of each calendar year and covers the preceding calendar year.

FORWARD-LOOKING STATEMENTS

This report may contain forward-looking statements where actual results may differ materially. This report is presented in good faith and without any expressed or implied guarantees about the accuracy of the information contained herein.

ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

ENVIRONMENTAL POLICY

Planar maintains an environmental policy that serves as the basis for Planar's Environmental Management System. This policy is consistent with ISO 14001:2015 requirements and is reviewed periodically to ensure it remains relevant to Planar's operations.

The policy is available online at: <http://www.planar.com/about/green/>.

PLANNING

Planar's Environmental Management System includes a detailed plan for monitoring and minimizing Planar's environmental impact. This plan also requires the continual monitoring of the global regulatory landscape for changes that materially affect Planar.

CHECKING AND CORRECTIVE ACTION

Planar is transitioning to the ISO 9001:2015 standard and will complete this process in 2018. Planar remains certified to the ISO 9001:2008 standard and includes the Environmental Management System under the scope of its internal audit program. Corrective Action Plans are issued for any Major or Minor audit findings. Recommendations for Improvement may be recorded in addition to any Major or Minor audit findings, but do not impact the audit result.

MANAGEMENT REVIEW

On an annual basis, members of the Executive Management Team convene with department managers and key individual contributors in accordance with Planar's Management System Review Procedure. Significant milestones in environmental management – as well as risks and opportunities for future improvement – are addressed at this time.

DEMONSTRATED ENVIRONMENTAL PERFORMANCE AND COMMITMENT TO CONTINUED IMPROVEMENT

PROGRESS ON 2017 GOALS AND FUTURE COMMITMENTS

This report addresses the environmental impacts associated with the following aspects of Planar’s business operations: waste disposal, resource usage, transportation, and employee health and safety.

Waste Disposal

Two major events occurred in 2017 resulting in significant reductions to Planar’s environmental impact:

- Planar’s repair depot moved from a foam packaging material with 0% recycled content to a material with 60% recycled content.
- Planar partnered with Agilyx to recycle all styrofoam materials.

The impact of the second point cannot be overstated, as Planar’s increasing sales volume of large-format displays corresponds to a significant increase in the amount of styrofoam used to package them. At this time, Planar is unaware of a viable alternative to this material given the size, weight, and fragility, of the panels. That’s where Planar’s partnership with Agilyx becomes so important.

With its facility located only 15 miles from Planar’s Hillsboro operations, Agilyx uses a proprietary process to liquefy and convert styrofoam materials into crude oil and other usable chemicals. The net effect is the complete diversion of styrofoam from the landfill. For 2017, this amounts to 2,656 cubic yards – or 80% of an Olympic-sized swimming pool – worth of reprocessed material.

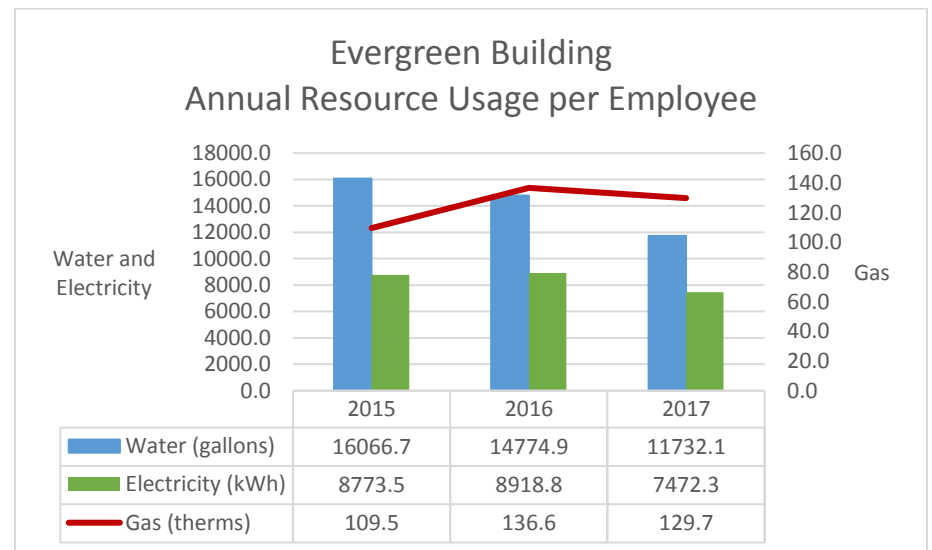
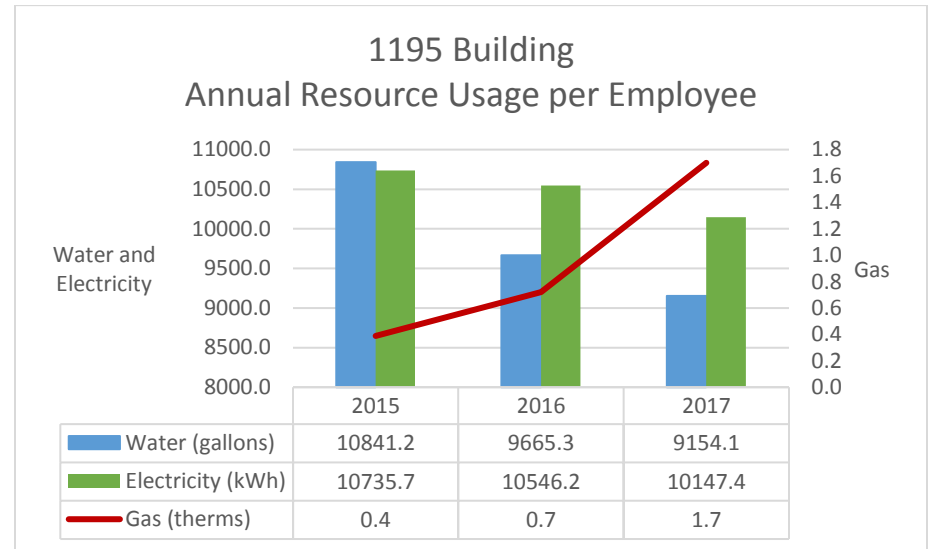


But Planar knows there is still room for improvement. For example, wooden pallets are incompatible with the Agilyx system, but currently account for the majority of shipments from suppliers. Transitioning these pallets to a compatible plastic material would result in further reductions in environmental impact and remains a company goal going forward.

For more information about Agilyx, please visit <http://www.agilyx.com/>.

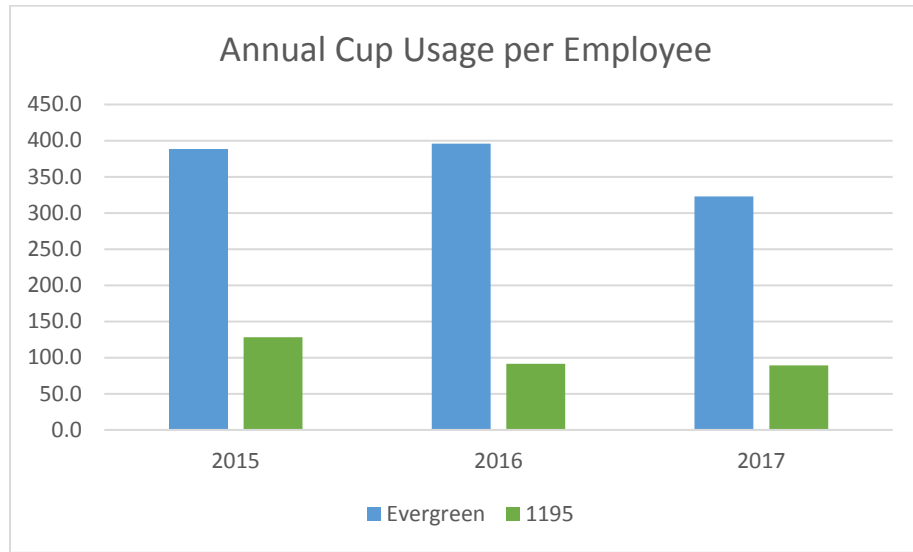
Resource Usage - Utilities

Planar’s consumption of water and electricity on a per-employee basis all decreased over the 2017 reporting year. In 1195, the increase in gas usage was offset by a more significant reduction in electricity usage. Planar is committed to maintaining these positive trends going forward.

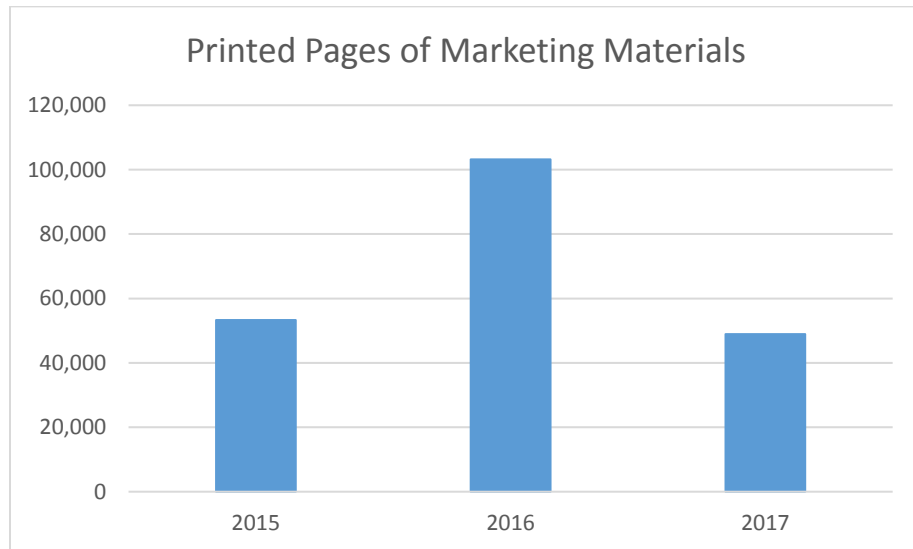


Resource Usage - Office Supplies

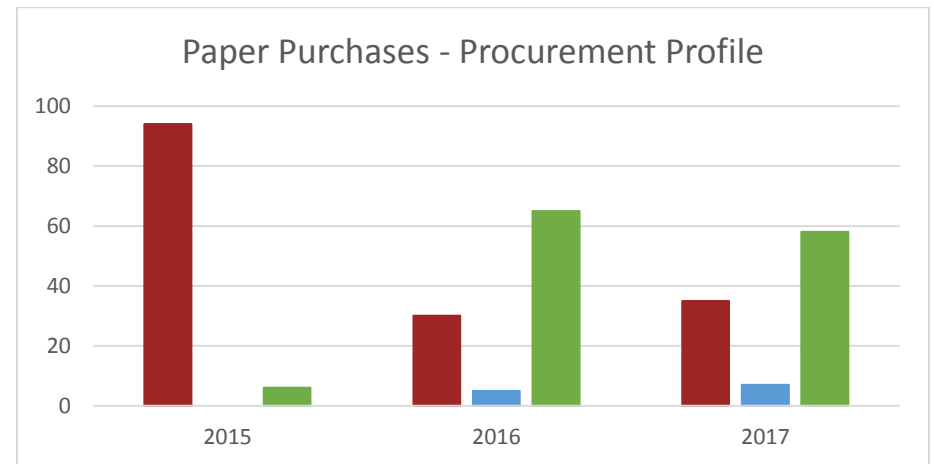
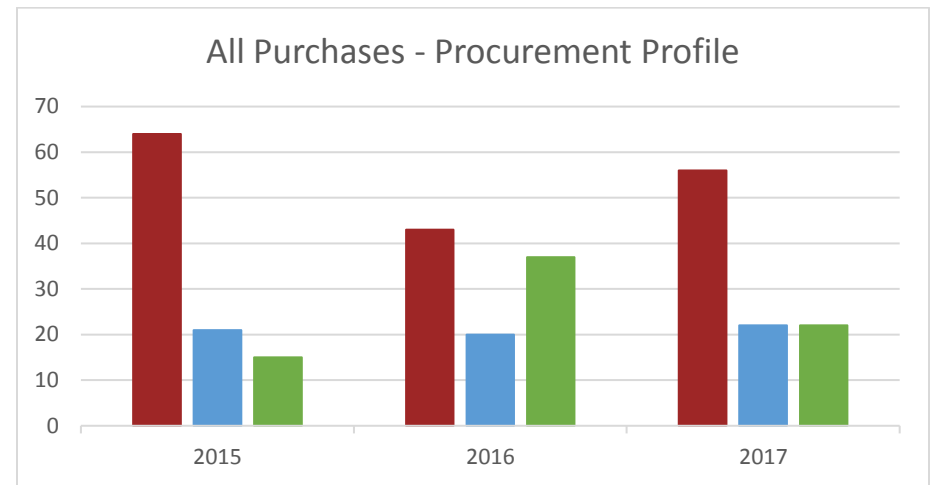
Per-employee consumption of paper cups decreased in both 1195 and Evergreen in 2017. Ecotainer cups accounted for 75% of total spend, down slightly from 76% in 2016.



Rebranding efforts associated with Leyard’s acquisition of Planar in 2016 resulted in a significant spike in printed marketing materials. In 2017, this number decreased from 103,200 to 48,950 pages, which also represents a decrease compared to 2015.



The following charts summarize the percentage of office supplies purchased in 2017 with documented environmental attributes:



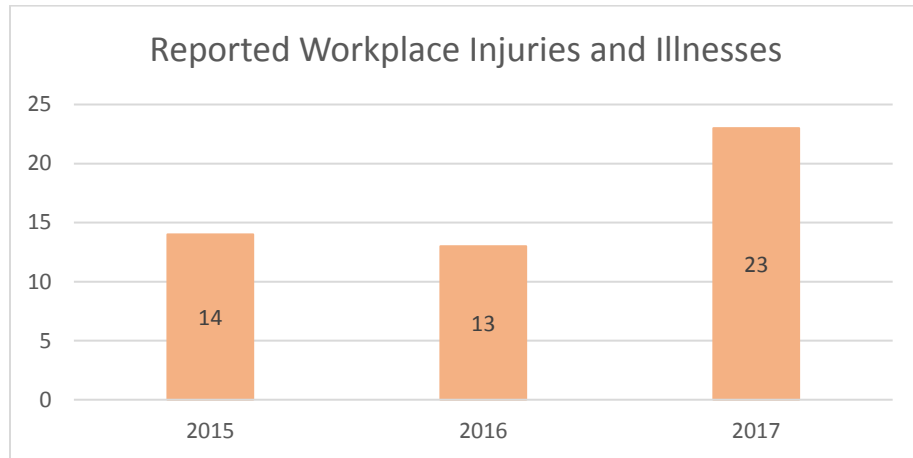
ADVANCED	Products exceed 30% post-consumer recycled content, are remanufactured, or have certifications to Forest Stewardship Council®, Green Seal™, EPA Design for the Environment, BPI compostable, Rainforest Alliance Certified™, Fair Trade Certified™, Cradle to Cradle™, or contain at least 30% bio-based plastics/agricultural residues.
BASIC	Products contain less than 30% post-consumer recycled content, have refillable designs, or have certifications to SFI, AP Non-Toxic, Indoor Advantage, and Greenguard.
NONE	Products do not contain any environmental features that can be tracked.

Transportation - Employee Commuting

The next update on this topic will appear in the CY2018 report.

Employee Health and Safety

A total of 23 injuries were reported in 2017, a significant increase from the 13 reported in 2016. However, 12 of these 23 injuries were classified as minor cuts that did not require treatment beyond first aid. It is unclear if this uptick represents a true increase in the number of injuries or is due in part to better recognition of the Accident/Incident/Hazard (A/I/H) reporting process. Planar's workforce grew from 254 to 298 over the reporting period.



2017 was a year largely focused on ergonomics and repetitive motion. As Planar displays continue to increase in size (and therefore weight), so do the risks associated with handling them. Planar took the following steps to proactively address these concerns:

- Made strategic investments in pneumatic drills, hoists, and gantry cranes, to reduce the amount of heavy lifting and repetitive motion for employees.
- With the goal of preventing musculoskeletal injuries in mind, provided [Safety in Motion](#) training to employees.
- Implemented a process for having the Quality Team conduct weekly "spot audits" with an emphasis on safety. These are in addition to the quarterly building inspections conducted by Safety Committee.

Building	Type(s) of Injury	2015	2016	2017	Grand Total
1195		3	2	1	6
	Bloody Nose		1		1
	Cut	1			1
	Eye Contamination			1	1
	Fall	1			1
	Illness	1	1		2
Evergreen		11	11	22	44
	Body Part Hit	2	2	3	7
	Burn		1		1
	Cut	7	3	12	22
	Eye Contamination	1			1
	Fall		2		2
	Lifting/Back Pain	1		1	2
	Repetitive Motion			3	3
	Sprain/Strain		3	2	5
	Multiple: Body Part Hit, Noise/Chemical Exposure			1	1
Grand Total		14	13	23	50

COMMUNITY INVOLVEMENT

4K 4Charity Fun Run PDX

Planar served as an official sponsor this year, helping the event raise a record-breaking \$60,500 for [KairosPDX](#) and [Rosemary Anderson High School](#). Both organizations are non-profit beneficiaries working towards increased diversity and inclusion in education.



Today's Women in Science & Technology (TWIST)

Sam Phenix, Planar's VP of R&D North America, participated in the 2nd annual Today's Women in Science & Technology ([TWIST](#)) conference. TWIST's goal is to provide mentor opportunities for students in STEM with female executives in technology-based roles and companies. The platform enables young women to build their professional network and aggressively pursue careers in STEM and technology-related fields.



Technology Association of Oregon (TAO)

Planar hosted Technology Association of Oregon's (TAO) annual Tech Tour event. The week-long event provided job seekers, students, and technology enthusiasts the opportunity to network with individuals and companies throughout Oregon and Southwest Washington.

TAO also recognized Planar as a finalist in its [2017 Oregon Technology Awards](#). The program celebrates excellence and achievement in the region's technology industry and honors outstanding individuals with prestigious Lifetime Achievement and Technology Executive of the Year awards.



TECHNOLOGY
ASSOCIATION
OF OREGON

Business Education Compact (BEC)

Planar joined BEC as a corporate partner in 2016 to help communicate the importance of science, technology, engineering, and math (STEM) outside of the classroom. Planar employees worked with students over the course of the 2016-2017 school year to complete a variety of science projects and connect those lessons to future career interests and life goals. Visit the [BEC](#) website for additional information about the program.



PARTNERSHIP PROGRAMS

Electronic Product Environmental Assessment Tool (EPEAT®)

EPEAT-registered products have less environmental impact than products that do not meet EPEAT criteria and help businesses meet sustainability goals.

Planar entered 2017 with the goal of registering as many as three additional displays with a Silver rating and was able to finish the year with a total of seven. Planar's goal for 2018-2019 is to transition these displays to the new IEEE 1680.1:2018 standard.



For more information about EPEAT, please visit <http://www.planar.com/about/green/epeat/> and <http://www.epeat.net/>.

Multiple Engineering Co-Op Program (MECOP)

MECOP is a business/education partnership specifically aimed at providing students with the learning opportunities they need to be successful in their careers with future employers based in the Northwest. Planar sponsored three internships in 2017. Additional information is available on the [MECOP](#) website.



Portland Community College (PCC) – Mechatronics Program

As an employer in an expanding field, Planar has a continual need for qualified job applicants. At the same time, PCC has a vested interest in graduating candidates with marketable skills. This partnership aims to align those common interests so that Mechatronics graduates provide immediate value and earn higher wages upon entering the workforce.



Additional information about the program can be found online:

- <https://www.pcc.edu/programs/electronic-engineering/mechatronics/>
- <https://www.pcc.edu/about/administration/board/materials/2017-11-16/willow-creek-update.pdf>

PUBLIC OUTREACH AND PERFORMANCE REPORTING

IDENTIFYING AND RESPONDING TO COMMUNITY CONCERNS

Planar recognizes the importance of local issues in the city of Hillsboro and the State of Oregon more broadly.

Staff responsible for implementing the Environmental Management System pay close attention to local news sources and also respond to inquiries received through the “Learn More” button located on the Environmental Initiatives page of Planar’s public website.

All other inquiries are directed to the Environmental Compliance team based in the corporate facility. Readers of this report are encouraged to direct questions or concerns to Environmental.Compliance@Planar.com.

Planar is not aware of any issue in either identifying or responding to community concerns as of the time this report was made public.

INFORMING THE COMMUNITY OF IMPORTANT MATTERS

Planar’s corporate facility is located within a business park that is operated by a 3rd party. Planar disposes of all electronic waste using recyclers certified to the industry-leading R2 standard maintained by the ANSI-accredited Standards Development Organization: <https://sustainableelectronics.org/about>.

As of the publication of this report, Planar does not foresee any environmental matter or concern that could potentially and reasonably require notification of the local community. However, in the event of an immediate environmental emergency requiring such notification, Planar would notify the property management company and/or appropriate local government body.

This report has been published on Planar’s corporate website as a form of community notification.

REPORTING ON ENVIRONMENTAL MANAGEMENT SYSTEM PERFORMANCE

Planar reports on its environmental performance through two primary channels. The first is by responding directly to external inquiries. The second is by publishing this report prominently on its corporate website for public consumption.

To download a copy of this report or learn about Planar’s Green Initiatives, please visit: <http://www.planar.com/about/green/>.

RECORD OF SUSTAINED COMPLIANCE WITH ENVIRONMENTAL REQUIREMENTS

CRIMINAL ACTIVITY

Regarding Section A.4 (Criminal Activity) of the EPA’s Performance Track Program Guide:

- *“Corporate criminal conviction or plea for environmentally related violations of criminal laws involving the corporation or a corporate officer within the past five years.”*
- *“Criminal conviction or plea of employee at the same facility for environmentally related violations of criminal laws within the past five years.”*
- *“Ongoing criminal investigation/prosecution of corporation, corporate officer, or employee at the same facility for violations of environmental law.”*

Planar hereby declares that all three statements do **not** apply.

CIVIL ACTIVITY

Regarding Section A.4 (Civil Activity) of the EPA’s Performance Track Program Guide:

- *“Three or more significant violations at the facility in the past three years.”*
- *“Unresolved, unaddressed Significant Non-Compliance (SNC) or Significant Violations (SV) at the facility.”*
- *“Planned but not yet filed judicial or administrative action at the facility.”*
- *“Ongoing EPA- or State-initiated litigation at the facility.”*
- *“Situation where a facility is not in compliance with the schedule and terms of an order or decree.”*

Planar hereby declares that all five statements do **not** apply.

CONTACT INFORMATION

For questions or comments about this report, please contact Environmental.Compliance@Planar.com.



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