



# Let's move the needle!

*How to transform sustainability into measurable results*

Sustainable Operations Workshop  
*October 23, 2018*

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# Agenda

- Sustainability Through History
- Actions Taken by Notre Dame
- Target and Actions
  - Procurement, Licensing, and Food Sourcing
- Case Studies
  - 30% recycled paper
  - Glove recycling program
  - Food waste to energy solution

# Sustainability Through History

- Throughout its history the University of Notre Dame has embodied the traditional principles of sustainability as a Catholic university committed to remaining vital and strong for succeeding generations
- The contemporary concept of environmental sustainability seeks a similar goal—the wise use of our natural resources to ensure their availability for future generations.
- Sustainability has its own inherent value: it equates a respectful stewardship of the environment with the faithful care of God’s creation.
- Comprehensive Sustainability Strategy link:  
[https://green.nd.edu/assets/211749/sustainability\\_strategy.pdf](https://green.nd.edu/assets/211749/sustainability_strategy.pdf)

# Actions Taken by Notre Dame

- Inspire and encourage environmental sustainability, both academically and administratively
- Energy conservation measures across facilities
- The design and construction of LEED-certified buildings
- The establishment of the Office of Sustainability
- The creation of an undergraduate minor in Sustainability
- The University has sought to advance sustainability on campus and abroad

## *We at Notre Dame can do more:*

### **New Goals developed by Faculty, Administrators and Students:**

1. respect for the human condition;
2. respect for the conservation of natural resources; and
3. economic viability.

### **University actions:**

1. **benefit people** – not just the current generation or today's community but future generations and future communities
2. must **respect the planet's** inherent value and consider both immediate and long-term impacts on its resources.
3. consider the **economic impacts of our actions** to ensure the University's **financial health** for decades to come.

***Many of the recommendations suggest changes in attitude and practices. Many also require economic investments.***

# Targets and Actions

The Comprehensive Sustainability Strategy recommendations focus on the University's continued actions and aspirations in seven areas:

## Seven Small Working Groups:

- A. Energy and Emissions
- B. Water
- C. Building and Construction
- D. Waste
- E. *Procurement, Licensing, and Food Sourcing***
- F. Education, Research, and Community Outreach
- G. Communications

# E. Procurement, Licensing, and Food Sourcing

- There is an important connection between purchasing and sourcing decisions and enhancing sustainability.
- Each sourcing decision we make presents an opportunity to choose environmentally and socially preferable products and services and to support companies with strong commitments to sustainability.
- Pope Francis instructs that “a true ecological approach *always* becomes a social approach.”
- The University should ensure that its vendors align with University goals and values, including its commitment to sustainability.
- By thoughtfully using its purchasing power, the University has the ability to impact not only the growth of sustainability on campus but the greater growth of a sustainable economy.
- To make the most of this power, the University should incorporate more robust sustainability considerations in its purchasing and sourcing decisions.

# Our Overall Strategies

1. Incorporate **sustainability standards** into formal strategic sourcing and licensing processes
2. Increase and encourage the purchase of **more sustainable products** by all University stakeholders
3. Create greater **vendor/supplier partnerships** that lead to more sustainable practices
4. Increase sustainability of **food sources**
5. Provide **greater transparency of sustainable purchasing and licensing**



# 1. Incorporate **sustainability standards** into formal strategic sourcing and licensing processes

## RFP Sustainability Clause:

The University of Notre Dame strives to be a leader in sustainable operations, education and research, and a role model for responsible citizenship. Notre Dame recognizes its responsibility to conserve the natural environment while promoting long-term economic and social justice for all members of society and works to foster a pervasive focus on the connection between environmental stewardship and the Common Good.

Notre Dame's Comprehensive Sustainability Strategy, <https://green.nd.edu/about-us/goals/>, outlines institutional goals and benchmarks which serve as the foundation and guiding principles for increasing sustainability in all areas and all levels across the University.

Please provide a detailed narrative in support of these elements including documentation of policy and specific periodic updates detailing progress of your sustainable efforts and how those efforts apply to the products/services Notre Dame is requesting. Any sustainability/green certification programs in which the bidder is engaged or received recognition for achievement should be provided as well.

2. Increase and encourage the purchase of **more sustainable products** by all University stakeholders
3. Create greater **vendor/supplier partnerships** that lead to more sustainable practices

### Accomplishments to date:

#### 1. Custodial Products

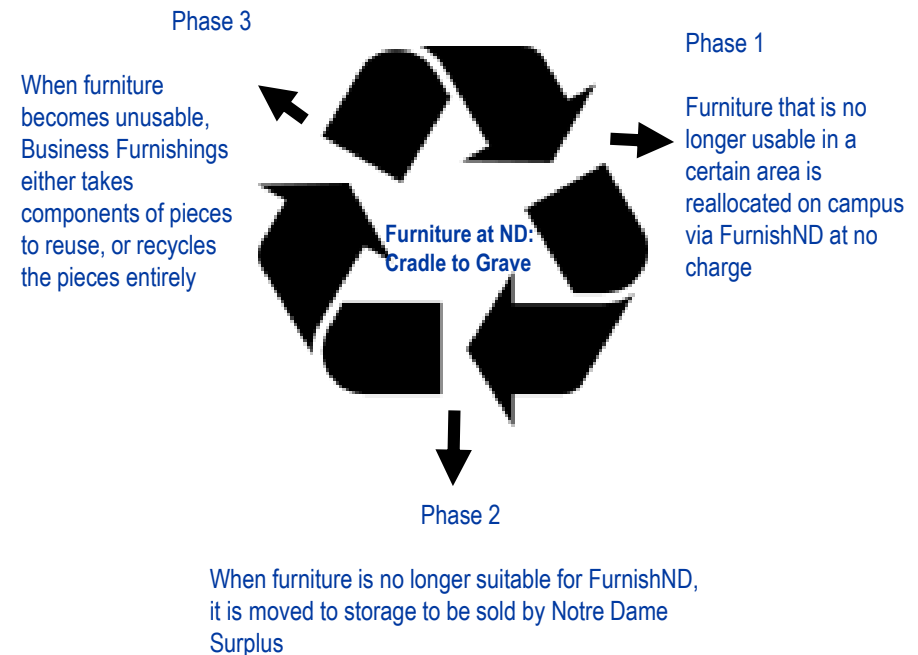
- Move to coreless TP and drop-down dispensers = significant reduction in waste
- 33% savings in moving from fold towels to roll towels
- Both in fiber use and packaging, and in product itself
- Forest Stewardship Council Certification (takes into account whole life cycle process)
- Spend has declined on these products, despite campus construction boom

2. Increase and encourage the purchase of **more sustainable products** by all University stakeholders
3. Create greater **vendor/supplier partnerships** that lead to more sustainable practices

## Accomplishment to date:

### 2. Furniture:

- Last fiscal year, ND purchased 952,900 lbs of Steelcase furniture
- Of that, recycled content amounted to 569,100 lbs.
- 410,700 lbs. were diverted from landfills
- Furnish ND, Surplus Property, Recycle



2. Increase and encourage the purchase of **more sustainable products** by all University stakeholders
3. Create greater **vendor/supplier partnerships** that lead to more sustainable practices

### Accomplishments to date:

#### 3. Lighting:

- Complete conversion of incandescents to compact fluorescents
  - 70% lower energy usage
- Conversion of site lighting from metal halide to LED
  - 90% complete
  - LEDs last up to 88% longer than MH

## *Let's move the needle!*



### Increase usage of 30% recycled paper:

- **The issues:**
  - There was a perception by the faculty and staff, that recycle paper was not a good option. Previous issues with jamming papers, bad quality, and poor performance of the paper made it difficult to introduce the recycle paper into the printing process.
- **Solution:**
  - Negotiate a competitive price for recycle paper which is \$5.00 a case cheaper than regular paper.
  - Start slow: select one department “Human Resources” to use the recycle paper and monitor performance. Once results were successful, introduce the recycle paper to other departments.
  - Emailing users buying paper to promote recycled paper
- **Results:**
  - PrintND (students) transitioning to 30% recycled Boise paper from 0% recycled paper
  - Increase recycled content use by 77% in 2018 (680 cases of paper)



Taking care of business

Order By Item | My Lists

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Q

Office Supplies
Paper
Ink & Toner
Breakroom
Cleaning
Technology
Furniture
School Supplies

MY OFFICE DEPOT

**Message**

Last update by: OFFICE DEPOT

## Welcome to the Notre Dame Office Supply Program. We Appreciate Your Business!

Office Depot Customer Service (for returns, exchanges, & product help): **1-866-679-1012** / Your acct # is 34625955.

For Restricted Items, please contact ND Procurement Services for additional information.

Preferred Copy Paper for Notre Dame

Notre Dame & Office Depot are pleased to announce a Boise multipurpose copy paper for your use. Boise has manufactured high quality paper for over 80 years. Boise respects the planet and works to limit environmental impact. The Boise Aspen paper has a 30% recycled content. This paper will also save you money. The price per case is \$31.79. The current 30% recycled paper is item # 940650 at \$36.03. The new preferred paper will save you \$4.24 per case. Please see below for more details on the Boise paper:


**Boise® Aspen® Multipurpose Paper, 8 1/2" x 11", 20 Lb, 30% Recycled, 500 Sheets Per Ream,**

**Case of 10 reams, Item # 116946, \$31.79 per case**

- 30% recycled content
- 92 brightness for crisp, clean text
- Acid free paper won't yellow or fade over time
- 20lb paper is ideal for everyday use



# Office Depot – Offers Green Alternatives



Taking care of business

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Quick Order
My Lists
Cart 0 Items \$0

**MY OFFICE DEPOT**

**Office Supplies** | Paper | Ink & Toner | Breakroom | Cleaning | Technology | Furniture | School Supplies

[Home](#) / [Paper](#) / [Art & Craft Paper](#) / [Craft & Tissue Paper](#)

**Shop Paper**

Brand

- Pacon (51)
- Epson (4)
- Shizen Design (4)
- Office Depot (3)
- Smart-Fab (3)
- [See all Brand](#)

Color Family

- assorted (13)
- white (11)
- blue (8)
- black (7)
- red (6)
- [See all Color Family](#)


Sheet Size

- 22" x 30" (38)
- 12" x 18" (12)
- 9" x 12" (4)
- 13" x 19" (2)
- 9 3/4" x 9 3/4" (2)
- [See all Sheet Size](#)

Craft & Tissue Paper

72 results

By Relevance



Item 289361

**Pacon® Spectra® Assorted Color Tissue Pack, 20" x 30", 20 Colors, Pack Of 100 Sheets**


Availability: 13  
✓ Sold Online  
Eco Eco-conscious  
Recycled Recycled content

**\$12<sup>99</sup>** / pack

Qty  [Add to Cart](#)

[Add to list](#)

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Item 127018


**Pacon® Spectra® Assorted Color Tissue Pack, 12" x 18", 25 Colors, Pack Of 100 Sheets**

Availability: 48  
✓ Sold Online  
Eco Eco-conscious  
Recycled Recycled content


**\$5<sup>99</sup>** / pack

Qty  [Add to Cart](#)


[Add to list](#)



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New User Guide  
[Watch Demo](#)



Cart 0

Recently Viewed

Order By Item

Helpful Links



# “Green” options when available:

## Shop Cleaning

Ready To Ship

yes (165)

Cleaning Type

- all-purpose cleaner (506)
- surface wipe (164)
- floor cleaner (112)
- glass cleaner (77)
- laundry detergent (71)

▼ See all Cleaning Type

Scent

- unscented (268)
- fruit (149)
- fresh (110)
- floral (78)
- mint (25)

▼ See all Scent

Cleaner Features

- Disinfectant (154)
- removes stains (95)
- scented (81)
- antibacterial (58)
- unscented (55)

▼ See all Cleaner Features

Form

- liquid (188)
- spray (48)
- Concentrate (32)
- aerosol (26)
- solid (4)

▼ See all Form

Cleaners 1,440 results



Taking care of business

Order By Item | My Lists

Search by Keyword or Item#



Office Supplies Paper Ink & Toner Breakroom Cleaning Technology Furniture School Supplies



CLEANING WIPES ▶



ALL-PURPOSE CLEANERS ▶



DISH SOAP ▶



BATHROOM CLEANERS ▶



GLASS CLEANERS ▶

For access to additional sort options, please use one of the search or category filters on the left to narrow your search.

By Relevance

24 Per Page

Grid List



Item 140686

Lysol Disinfecting Wipes, Lemon/Lime Blossom, 7" x 8", 80 Wipes Per Canister, Pack Of 3 Canisters

Qty

**\$14<sup>03</sup>** / pack

Add to Cart

Add to list

Availability: 119

✓ Sold Online

Eco-conscious

Recycled content

[Safety Data Sheets](#)



Item 536373

Clorox® Disinfecting Wipes, Fresh Scent, 75 Wipes Per Tub, Box Of 6 Tubs

Qty

**\$29<sup>24</sup>** / carton

Add to Cart

Add to list

Availability: 212

✓ Sold Online

[Safety Data Sheets](#)



## *Let's move the needle!*

### Expand glove recycling program

- **The issues:**

- Notre Dame science labs are currently using rubber gloves in their programs.
- Other departments are also using rubber gloves but at this time we are not recycling the used gloves.

- **Solution:**

- Team up with Office Depot to create a sustainability position sponsored by them to hire an intern to work on this initiative.
- Jordan Hall started recycling their rubber gloves with the support of this Office Depot Intern.
  - Allen Utterback

- **Results:**

- We identified around 130 different locations that are using rubber gloves than can be candidate to start the recycling program.
- Sustainability Office Depot intern is directly contact remaining science labs for glove program
- Looking to partner and expand with food service
- In FY 2017, over 1,700 pounds of gloves were saved from the landfill



# Rubber glove recycling expansion:



- 4 tons of nitrile gloves currently used on campus, beyond Jordan
- Possibility of expanding to include to pipette tips and protective garments
- Messaging/posters to encourage glove recycling
- Opportunities: Stepan Hall, McCourtney Hall, Galvin Science Center, Harper Hall, Building Services, Food Services
  - Challenges: Personnel, cost of transporting waste
- Pilot of RightCycle in University of Illinois-Champaign's main dining hall has achieved a diversion rate of 90%

# Let's move the needle!



- **The Issues:** Over 1 ton of food waste a day is generated at our dining halls and center for culinary excellence alone. Food waste represents 10% of our overall waste stream.
- **Solution:** Grind2Energy technology will help us meet our 50% waste diversion goal we set to achieve by 2016. Opportunity to divert 399 tons/year. Potential avoidance of 275 tons of CO<sub>2</sub>e annually while generating renewable electricity (and NO flaring of methane!)





# Onward to Sustainability

## University of Notre Dame

**95%** of new construction space uses efficient, LED lighting

**12** buildings are LEED certified which includes diverting 96% of construction project waste from landfills

At approximately **43,000 SF** collectively, Duncan Student Center, Corbett Family Hall, & O'Neill are home to the largest green roof in the state of Indiana.

Over the past 5 years, irrigation water use has decreased by **244 million gallons per year**

that is **15x** St. Mary's Lake

In FY17, the ratio of trees planted to removed was



### SMALL WORKING GROUP

**28** faculty **22** staff **27** students

**30** active members of the Sustainability Commissioner program

**70** Gameday student volunteers

### SUSTAINABILITY MINOR

# Sustainability Electives / Semester



**30 students** in the class of 2019 are pursuing the sustainability minor

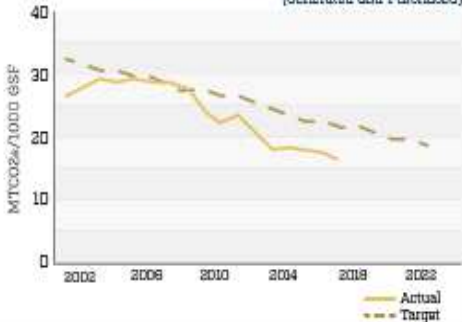
**25 students** in the class of 2020 are pursuing the sustainability minor

### FOOD SOURCING



### ENERGY CARBON FOOTPRINT

(Generated and Purchased)

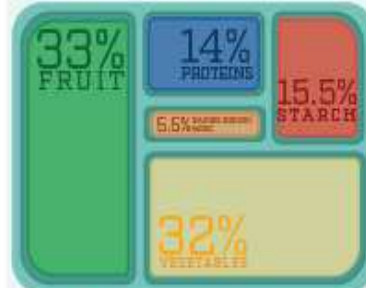


**3** Geothermal well systems installed as part of our goal to reduce carbon emissions

**1,303** Total wells  
**2,500** Total tons of capacity

### Cultivate

— FIGHTING FOOD WASTE —



THE GOAL is **50%** recycled waste

In FY17 **40%** recycled waste

The annual waste per person was **660 lbs.**

**27** elephants

This year, ND has saved **133 tons**, **68%** of Pre-Consumer Food Waste

**22,431** number of student bikes  
**2,940** cumulative saved gas consumption (gal)  
**72,700** cumulative riding distance (mi)

**44** designated priority parking spaces were added during the recent stadium construction

**4,120** meals donated

**19** different organizations were helped

In FY2017, **71%** of printing was duplex (double sided)  
**1,353** trees saved  
**1,149,984** gal. of water saved  
**22,548** lbs. of paper saved  
**124,019** lbs. of CO<sub>2</sub> saved

**1/3** The **577** acre Kenmore Facility Solar Array provides 1/3 of the electricity used.

### Furnish the ND

**70** departments used FurnishND  
**215** pcs. of furniture repurposed on campus  
**\$250,000** in savings to the University

### OLD 2 GOLD

Year End Campus Yard Sale

Old2Gold annually diverts over **76.3 tons** of waste from the landfill.

**100%** of the stadium bench seating (equivalent to 18 miles) was repurposed





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# THANK YOU

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**Contact Information:**

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