Enpro 352

A Recyclable Business Model for the IIT Future



Plan Overview

- Goal
 - Find cost savings from increased recycling rate and new revenue to justify five (5) student workers (~ \$40K/Yr.)
- Pilot a Program to Increase Recycling Rate
 - Using small scale surveys and leading industry information, and using other, non-pilot building as a control group
 - Create and conduct a pilot program in one or two buildings as a test to see its impact if it was rolled out campus-wide

Find New Sources of Revenue from Recycling

- Without interfering with existing initiative in recycling batteries, computers, cell phones and other electronics
- Find and develop a plan to generate new revenue



Conflicts

Familiarity with recycling

Advertising without wasting

Ethical issues

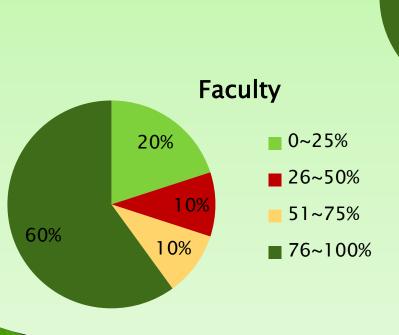
- Ensuring materials are completely recycled
- Pre-existing contracts

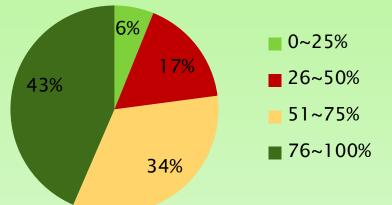


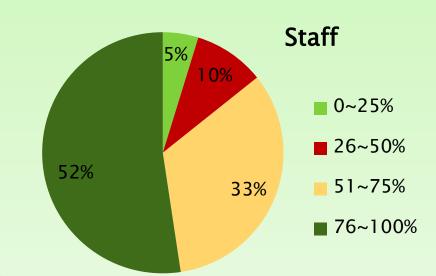




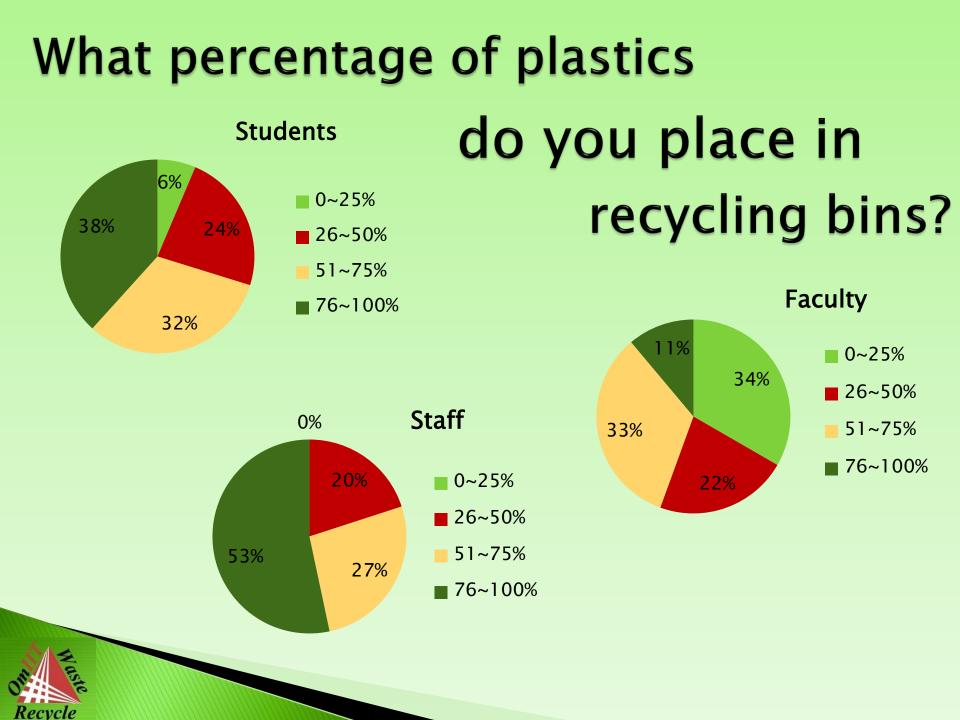
What percentage of paper do you place in the recycling bins?











Awareness

- Currently 7,707
 Students at IIT
- OmIIT Waste Campaign
- Recyclemania
- Sports Events







Immediate Solution)s

Education/Training

- Orientation
- Faculty Training Sessions
- Pilot Program
 - Alleviate Confusion
 - Avoid Contamination
- Correcting Labels
 - Standardize
 - Pictures, Color-Coding...





More Efficient Pick Up



 Reducing the number of pickups will in turn reduce the cost for the university Decreasing the number of routes by allocating the most efficient locations, will cut down the time spent collecting materials around campus.





Biodiesel

Sell to IIT shuttle serviceSell oil directly to Loyola



Hand Soap

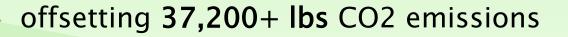
- Fairly simple and cheap process
- Use in campus bathrooms

Loyola University Program

1,950+ gallons produced

- > 2oz sample
- 8oz container
- 1gallon

\$2.49 \$7.99 \$20.00



Wood Shop



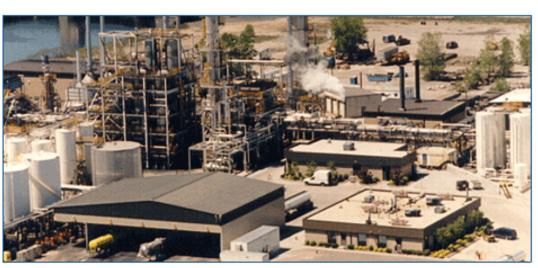
- Mulch
- Composting Agent



- Pet Bedding
- Chipboard/Fiberboard

Auto Shop

Energy & Heat



Used Oil Re-refinery



Lubricating oil



Recycling Scrap Metal



Recycle





Aluminum Iron Stainless Steel Lead Copper Brass Bronze (red brass) \$0.15-\$0.45 per lbs. \$0.01-\$0.04 per lbs. \$0.15-\$0.35 per lbs. \$0.08-\$0.15 per lbs. \$0.35-\$1.50 per lbs. \$0.25-\$0.90 per lbs. \$0.30-\$0.90 per lbs.

Grant Opportunities

- Illinois Recycling Grants Program
- Food Scrap Composting Revitalization & Advancement (F-SCRAP) Program
- Recycling Expansion and Modernization (REM) Program

Workplace Waste Reduction Tools

Database of Recycling Opportunities in Illinois

 Illinois Commodity/Waste Generation and Characterization Study



Surplus Property Exchange for University Departments:

A website that will further campus sustainability

- Reduce the amount of materials just laying around
- Reuse non-grant items to give then a new life and save money by not purchasing new
- Recycle materials that cannot be reused

Next steps in implementing a salvage store website:

Research

Investigate

Financial



Security

Create processes

- Unsold items
- Marketing Plan

Rummage Sale Event

- Create enthusiasm for & gage people's interest in establishing an online "rummage sale" like the salvage store.
- Various IIT departments will be asked for donations of materials that are not being utilized. Here are some examples:









Self-Measurement of Success

- New recycling program that has been tested and is ready to be implemented campus-wide
- Several new revenue opportunities that have been researched and developed to the point of implementation
- Proposed calendar of events and corresponding job descriptions for the new student workers who will be hired by Joe Clair, the EnPRO Sponsor, to run the new recycling business

