



STAY IN THE **BLACK** BY GOING **GREEN**

Green Purchasing & Management Policy Development - Implementation

PRESENTED BY:

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Greg Somjen, AIA, Principal, PSA

1. DEVELOP A GREEN SCHOOL PLAN
2. GREENING YOUR CURRICULUM
3. MEASURING SUCCESS
4. ACHIEVING RECOGNITION

Can investing to make schools environmentally responsible, profitable & healthy improve the well being of students?

9 out of 10 surveyed school administrators believe so...

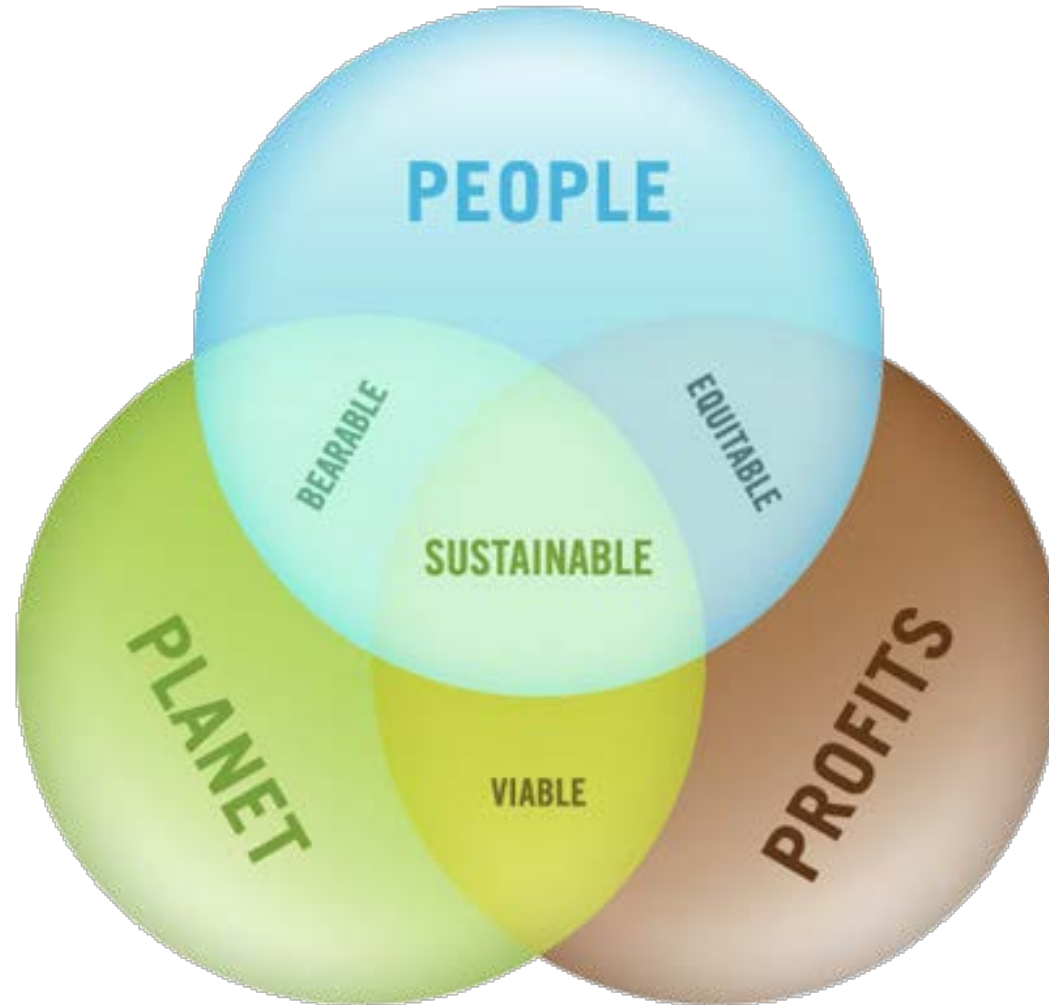
90%

green school

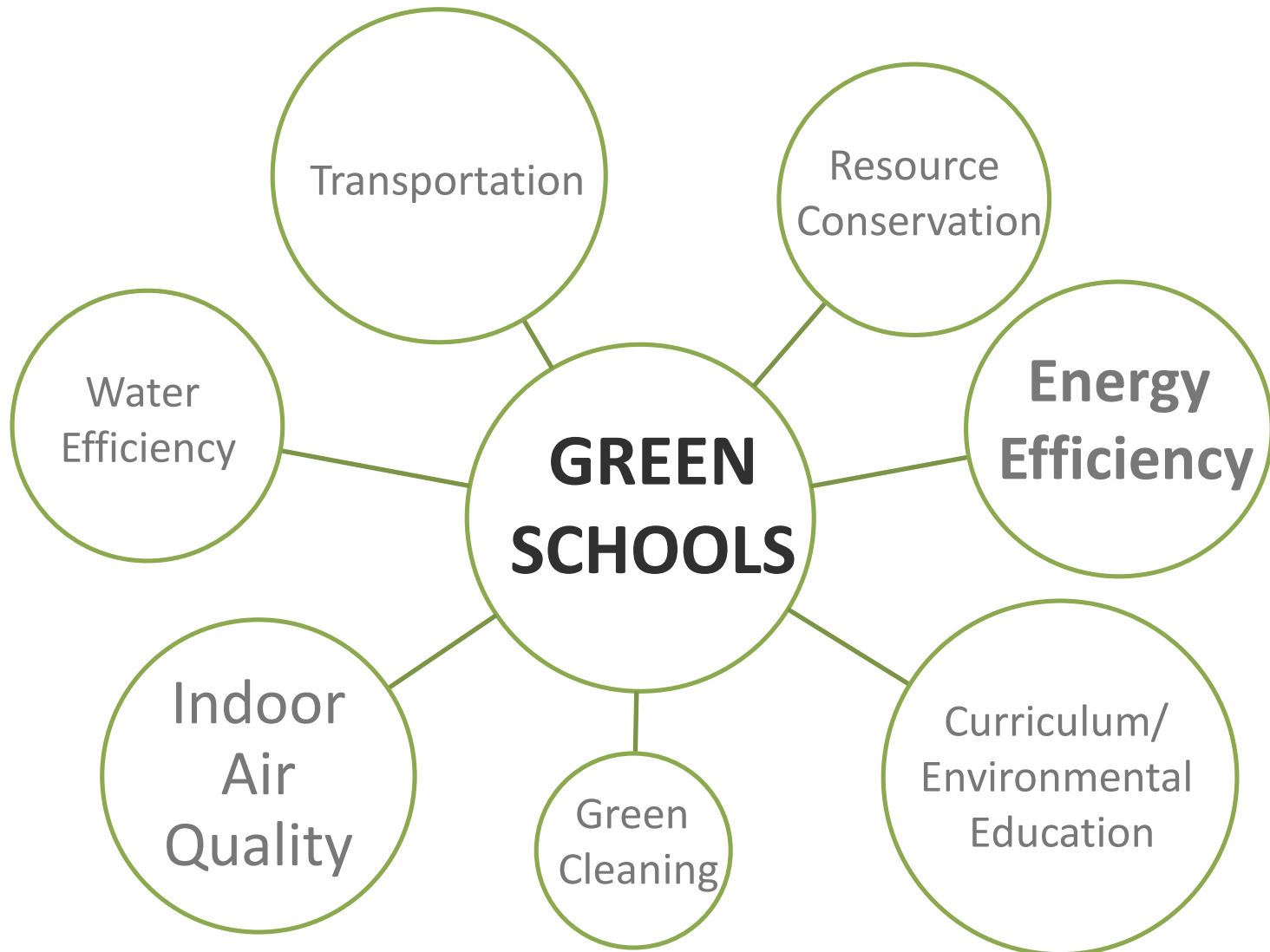
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a school that creates a healthy environment that is conducive to learning while saving energy, resources and money

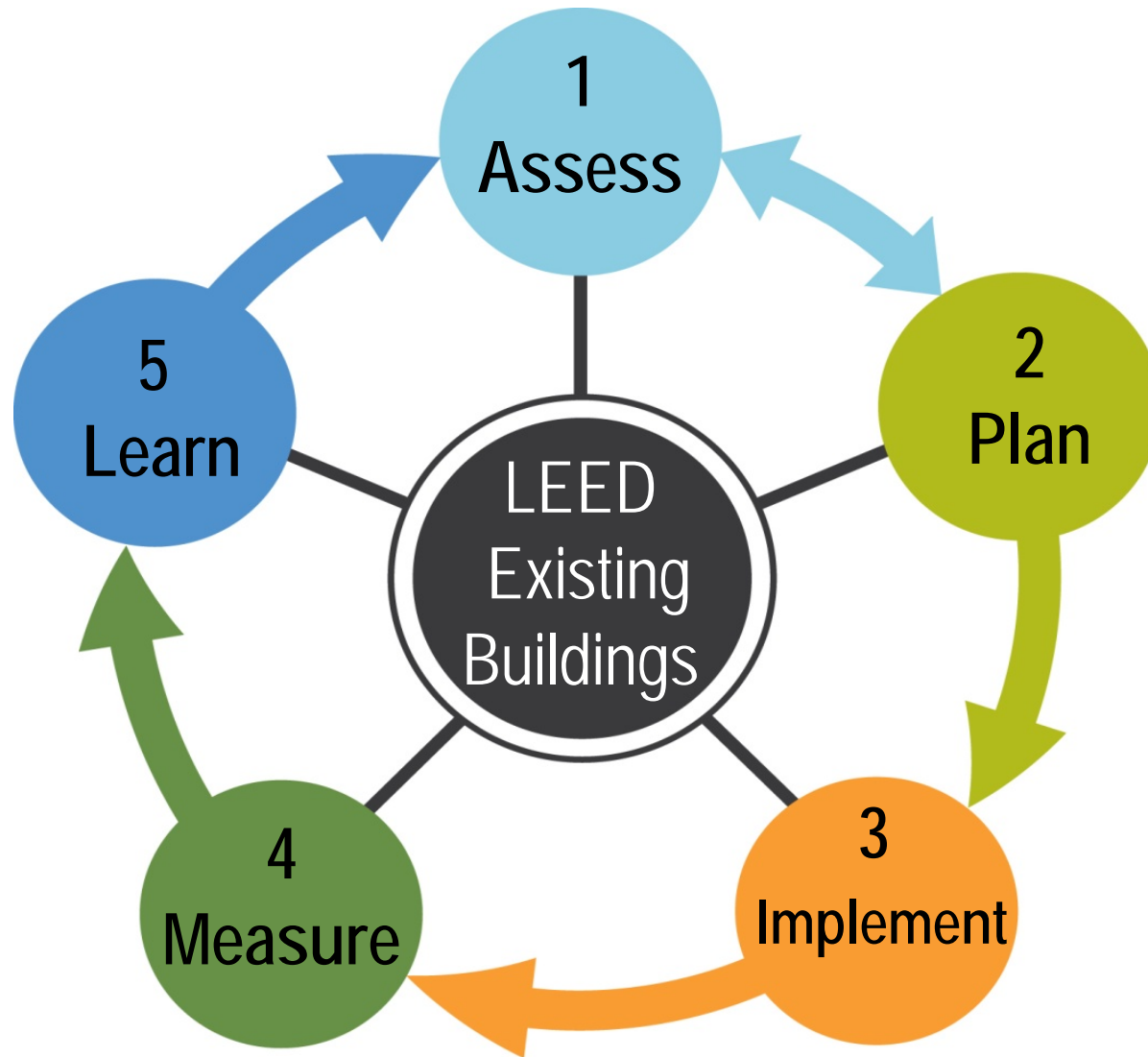
TRIPLE BOTTOM LINE BENEFITS



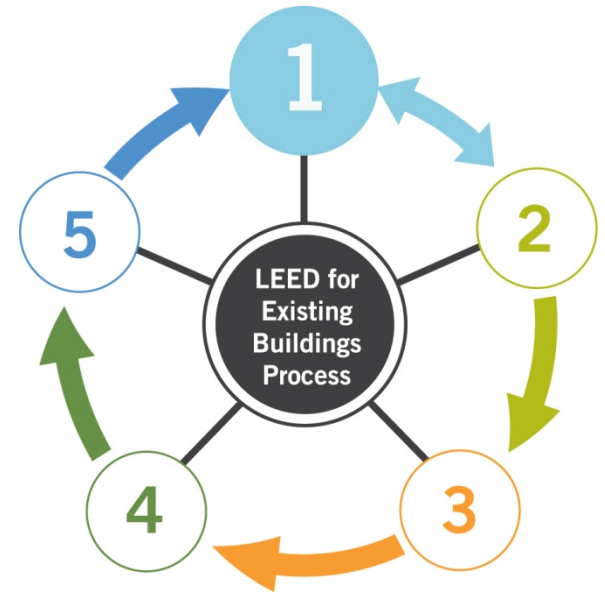
WHAT IS A GREEN SCHOOL



GREEN SCHOOL PLAN PROCESS



- Convene green team & identify stakeholder
- Establish goals
- Perform gap analysis
- Identify costs, funding, incentives (ROI)



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Green Assessment

- Sustainability Policies
- Water/Energy/Waste benchmarking
- Stakeholder identification
- Certification Pre-Requisite and Credit Requirements
- Challenges, Opportunities, Costs

Green Policies

- Building Exterior & Hardscape Management
- Site Erosion, Landscape & Pest Management
- Water Efficiency
- Sustainable Purchasing & Waste Recycling
- Energy Efficiency & Renewable Energy Use
- Indoor Air Quality Management
- Green Cleaning

Create a Green Policy

- Scope
- Goals
- Performance Metric
- Responsible Party/ies
- Procedures and Strategies
- Time Period

Section One: Policy Scope

Policy at minimum should apply to sustainable purchasing of:

- Ongoing Consumables
- Durable Goods
- Mercury-Containing Lamps

NOTE: Food and Beverage are not required but could be included in this policy.

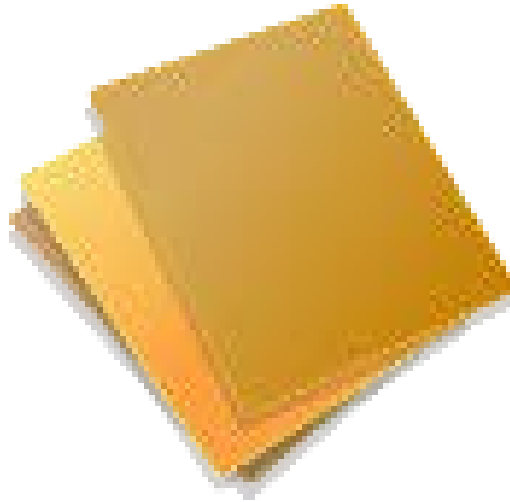
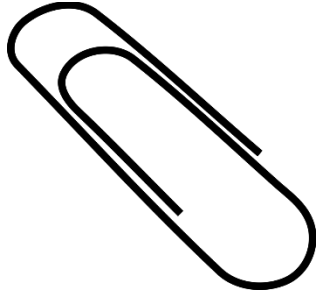
Section Two: Policy Goals

Broad Goals - Purchase on-going consumables in a manner that will (example):

- Protect the environment and public health
- Conserve natural resources
- Minimize waste, including landfilling and incinerating, and reduce toxicity



ONGOING CONSUMABLES



Section Three: Performance Metric

Ongoing Consumables – At least 40% of the cost of goods will have:

- 10% post-consumer and/or 20% post-industrial material;
- 50% rapidly renewable material (e.g., bamboo, cotton, cork, wool);
- 50% materials harvested, extracted and processed within 500 miles of the facility;
- 50% materials Forest Stewardship Council (FSC)-certified paper products.

DURABLE GOODS



Section Three: Performance Metric

Durable Goods: (high-cost-per-unit materials that are replaced infrequently) Products may include:

- Office Equipment (such as computers, monitors, printers, copiers, fax machines)
- Appliances (refrigerators, dishwashers, water coolers)
- External Powers Adaptors, televisions and furniture

Two categories – Electronics & Furniture.

“Durable Goods” - Electronics

Electronics and Appliances: At least 40% of the cost of goods will comply with one or more of the following:

- Energy Star labeled products, when available.
- Electronic Product Environmental Assessment Tolls (EPEAT) rated products (certified level)
- The equipment replaces conventional gas-powered equipment, i.e. maintenance equipment and vehicle

“Durable Goods” - Furniture

Furniture: At least 40% of the cost of goods will comply with one or more of the following, and contains at minimum;

- 10% post-consumer and/or 20% post-industrial material
- 70% salvaged material from off-site or outside the organization
- 70% salvaged material from on-site through an internal materials and equipment reuse program
- 50% rapidly renewable material (bamboo, cotton, cork, wool)
- 50% materials harvested, extracted and processed within 500 miles of the facility / site
- 50% Forest Stewardship Council (FSC) certified wood



FACILITY ALTERATIONS



Facility Alterations & Additions

At least 50% of the cost of goods will comply with one or more of the following:

- **Adhesives and sealants** comply with SCAQMD rules for VOC levels
- **Paints and coatings** comply with Green Seal's GS-11 for VOC levels
- **Hard flooring** is FloorScore-certified and constitutes a minimum of 25% of finished floor
- **Carpet** and carpet cushion meets the requirements of the Carpet and Rug Institute (CRI) Green Label Plus carpet testing program
- **Composite panels** and agrifiber products contain no added urea-formaldehyde resins

Toxic Material Reduction – Mercury Lamps

90% of lamps
purchased will contain
no more than 70
picograms of mercury
per lumen-hour.



Section 4: Performance Evaluation - Tracking

- Record and track purchases on a monthly basis
- Report on consistent Materials Purchasing Worksheet



Section 5: Responsible Party

- Who is responsible for making purchases?
- Who is responsible for overall tracking?
- What Departments/Staff are affected?
- When are purchases made?
- How often are they tracking?

Section 6: Procedures and Strategies

- In addition to requirements outlined in Section 3, the following should be considered:

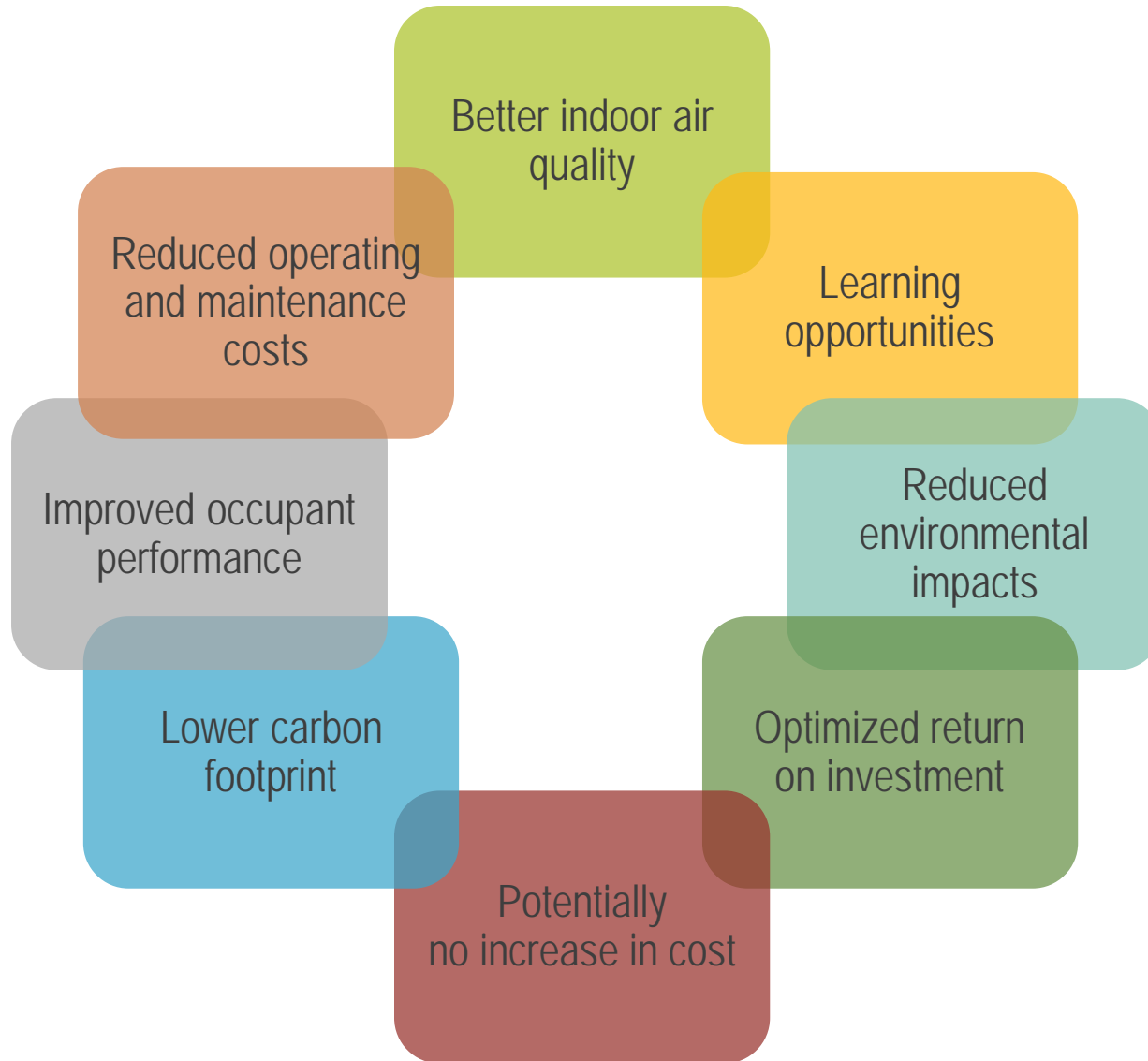
Packaging: Reducing waste generated through daily operations & materials brought onto the site.

Recycled Content: Set minimum standards for vendors

Section 7: Time Period

- Limited period or indefinite?
- Regular review timeline?
- Amendment Procedure?

GREEN SCHOOL BENEFITS



- LEED (Leadership in Energy & Environmental Design)
- Green Ribbon Schools
- Sustainable Jersey for Schools
- Energy Star

LEED (Leadership in Energy & Environmental Design)

- Voluntary national certification program
- Executive order requires LEED standards in new school construction
- Point based rating system with 6 categories in Transit, Site, Water, Energy, Materials, IEQ and Innovation that addresses:
 - Climate Change - Human Health - Water Conservation
 - Biodiversity - Green Economy - Eco-Justice
 - Natural Resource Conservation - Habitat Restoration
- Certification is third party by GBCI and costs \$3500-\$5,000 +/-
- 12 Pre-requisites and minimum of 40, 50, 60 or 80 points out of 100 to achieve Certified, Silver, Gold or Platinum Certification

SUSTAINABLE JERSEY FOR SCHOOLS

- Voluntary local program recognizing best practices
- Point based certification program with 3 broad categories of People, Planet & Prosperity (triple bottom line) that address:
 - Climate Change
 - Health, Wellness & Safety
 - Education & Community Outreach
 - Resource Conservation
 - Sustainable Facility Planning, Design & Operations
- Competitive process with Bronze or Silver levels. Requires 2-3 mandatory actions and minimum of 150 or 350 points.

SUSTAINABLE JERSEY FOR SCHOOLS

- 87 Actions in 17 Categories

PROSPERITY

- Student Learning
- Energy Efficiency
- Leadership & Planning
- Learning Environment
- Innovation Projects

SUSTAINABLE JERSEY FOR SCHOOLS

- 87 Actions in 17 Categories

PLANET

- Climate Mitigation & Renewable Energy
- Green Cleaning
- Green Design
- Green Purchasing
- School Grounds
- Waste Management & Recycling

SUSTAINABLE JERSEY FOR SCHOOLS

- 87 Actions in 17 Categories

PEOPLE

- Diversity & Equity
- Food & Nutrition
- Healthy School Environments
- Student Safety
- Student & Community Outreach
- Student & Staff Wellness





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