



Because we all play a part. Think Green,  
**Think Fisher Scientific**



# Think Green

## Going Green with Fisher Scientific

Like you, Fisher Scientific is committed to protecting our environment. We have adapted green sustainable business practices and implemented "Reduce, Reuse and Recycle" initiatives throughout our organization.

This brochure reflects our support for the sustainable green initiatives of our customers and supply partners. From reducing hazardous emissions through consolidated shipments, to implementing electronic data exchange and recycling programs, Fisher Scientific is committed to a sustainable planet.

Fisher Scientific is a leading provider of equipment, supplies and services for the scientific research, safety and clinical laboratory markets. Our broad product offering, electronic commerce capabilities, and integrated logistics network, combined with our supplier manufacturing facilities enable us to provide an extensive product portfolio to thousands of customers. Our expertise in delivering leading-edge technologies and products reliably, efficiently, and globally is supporting scientific research today for the discoveries - and environment - of tomorrow.

## Fisher Scientific Initiatives

- We incorporate the 3 R's in our facility management program (Reduce, Reuse and Recycle)
- Electronic data exchange between supply partners and offices
- Excessive inventory is donated to government agencies for use in international disaster response
- Since 2004, we have transitioned from Styrofoam to full recyclable packaging
- Consolidated shipments from suppliers and to customers effectively reducing overall CO<sub>2</sub>, Nitric Oxide and SO<sub>2</sub> emissions
- Electronic commerce capabilities eliminates purchase orders that previously required paper transactions
- Literature requests are available in PDF format
- Implementation of a Warehouse Management System (WMS) provides increased efficiencies and decreased paper transactions

## Did you know?

Customer driven e-commerce through Fisher Scientific's multiple IT platforms have eliminated:

- More than 7.3 million invoices and purchase orders that previously required paper transactions
- More than 1.3 million lbs. of annual carbon emissions

Think Green  
Go Paperless



**Fisher Scientific** strives to ensure that its products, packaging and operations meet our environmentally friendly philosophy. The majority of products listed in our Fisher Scientific Catalogue exemplify this view.

### Ordering and Shipping Made Cleaner **Reducing Costs and Waste**

Fisher Scientifics' integrated logistics network and electronic commerce capabilities greatly improve and support our sustainable business practices. Fisher Scientific provides customers the ability to purchase all necessary lab supplies from one place.

By consolidating orders, Fisher Scientific reduces the transporting of products from several times a day to a single daily delivery, decreasing fossil fuel usage and greenhouse gas emissions. Fisher Scientific is the one source that gives you an infinite choice of products and multiple brand name suppliers to choose from.

Electronic order approval and blanket orders for contract vendors diminishes paperwork, conserves paper and reduces duplicated work processes that drain human resources and drive energy consumption.

### Planes, Trucks and Automobiles **Hazards to Everyone's Health**

Shipping and receiving products is a major source of greenhouse gas (GHG) emissions that may be negatively impacting the global climate. Whether transportation is by plane, truck or automobile, these emissions, containing CO<sub>2</sub>, SO<sub>2</sub> and nitric oxide, mix with the atmosphere to affect GHG concentrations.



#### *Did you know?*

Through better management of the 2008 research catalogue production process, Fisher Scientific saved:

- 22,080,000 pages of paper, equal to saving 275 trees (1 foot in diameter and 60 feet tall)!

## Thinking Green

### What Fisher Scientific Suppliers Are Doing...

An April 2007 survey of 22 Fisher Scientific suppliers showed a greening trend, as more than 80% surveyed have integrated sustainability principles into their manufacturing and distribution processes, facilities management, and/or waste handling systems (see list below).

According to the survey, recycling, energy conservation and greener manufacturing processes are the most widespread applications of "green business" among these manufacturers.

Sustainability preserves and protects our environment through responsible use of resources today, tomorrow and for generations to come. Fisher Scientific supports the green initiatives of all of our suppliers, and we encourage you, our customer, to consider these green-minded suppliers in your purchasing decisions.

#### Recycling

- 82% of surveyed suppliers use recycled packaging materials
- 73% are redesigning their packaging to utilize greener packing materials

#### Saving Energy

- 77% use energy-efficient light fixtures and alternative fuels
- 59% use energy-efficient light fixtures and alternative fuels in the warehouse
- 18% participate in delivery-fleet fuel conservation

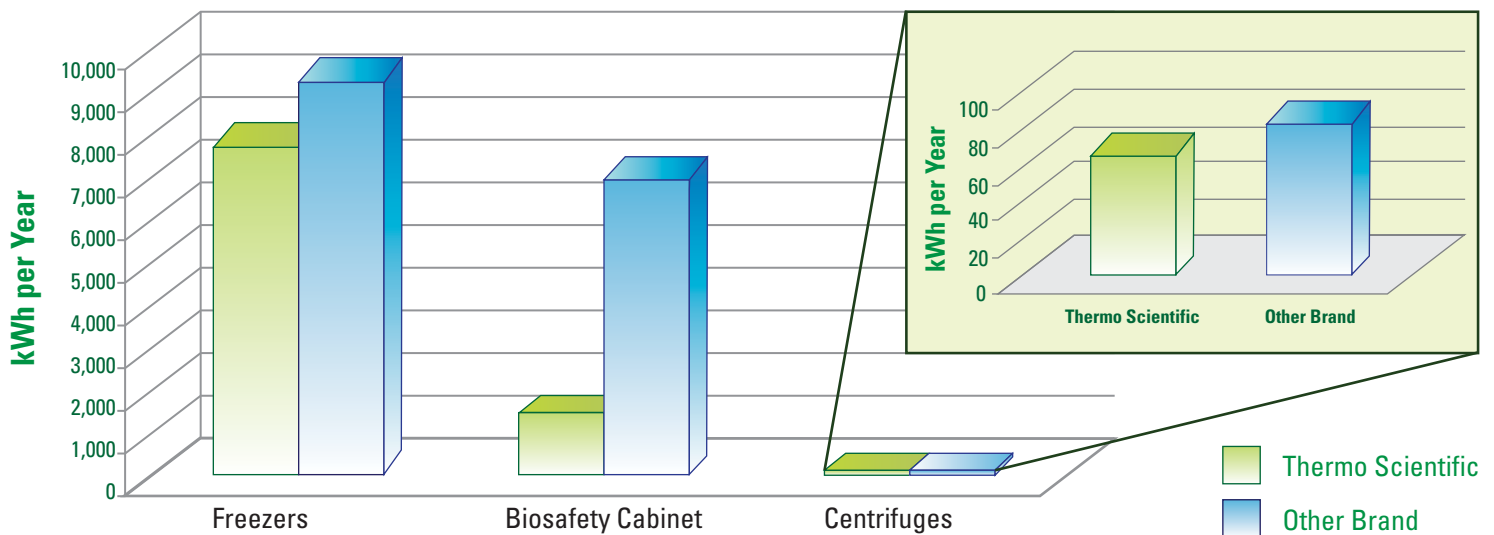
#### Greener Manufacturing

- 55% participate in reduction of virgin plastic
- Three out of five companies have products that contain post-consumer recycled material
- Three out of five companies offer products that have replaced high-electrical energy usage processes
- Four out of five companies offer products that have replaced potentially toxic chemicals used in manufacturing
- 14% participate in Life Cycle Analysis

#### Water Conservation

- 14% participate in water conservation in production

## Energy Usage per Year



In June 2007, a major research university conducted an energy consumption study. Freezers, biological safety cabinets and centrifuges were found to be the biggest energy drain in laboratories today. Compared to other brands, Thermo Scientific equipment showed significant savings.

## Choosing the right product saves energy, money and carbon emissions.

### Thermo Scientific Forma 1300 Class II, Type A2 Biologicals Safety Cabinet



Thermo Scientific Forma's 1300 Series Biological Safety Cabinets use 60% less energy than competing products.

### Thermo Scientific Forma Ultra-Low Temperature Freezer



Thermo Scientific Forma Ultra Low Freezers use advanced refrigeration technology, decreasing energy costs compared to other freezer manufacturers.

### Thermo Scientific Sorvall Micro Series



Thermo Scientific Sorvall Legend Micro 17 and 21 Refrigerated series are free of chlorofluorocarbons (CFC) in the refrigerant, a greenhouse gas that can contribute to future global warming.

### Denver Instrument Balances



Denver Instrument Balances are packaged with recycling in mind. Re-engineered packaging minimizes Styrofoam and other non-recyclable material.

### AirClean® Ductless Fume Hoods



AirClean®'s ductless fume hoods and enclosures provide safe, reliable and environmentally friendly solutions for laboratory needs. AirClean® fume hoods eliminate heating/cooling costs associated with conventional hoods that pump cooled/heated air into the outside environment.

## Did you know?

- Recycling plastic saves twice as much energy as burning it in an incinerator
- Recycling materials can return to the marketplace in as little as 30 days

## Kimberly-Clark Sterling Nitrile Gloves



Kimberly-Clark Sterling Nitrile Gloves offer 50% more gloves per box, eliminating over 2,200 lbs. of waste per year.

## Fisher Scientific EcoSafPak Chemicals



Fisher Scientific's Revolutionary EcoSafPak Chemical packaging is 100% recyclable, significantly reduces Styrofoam waste in landfills, and eliminates 1.2 million lbs. of annual greenhouse gas emissions.

## Corning HyperFlask Cell Culture



The Corning HyperFlask Cell Culture flask provides 10% of the cell yield with the same dimensions as a T175 cm<sup>2</sup> flask. This reduces plastic waste of 10 T175cm<sup>2</sup> flasks by over 30%.

## Innovive Disposable Animal Caging



Innovive Disposable Animal Caging is fully recyclable and reduces environmental impact by eliminating cage washing and decontamination processes.

## Fisherbrand SureGrip Pipet Tip



Fisherbrand SureGrip Pipet Tip Reloading system provides an effective way to store pipet tip boxes within the lab, and reduces waste by 80% with its fully recyclable packaging.

## Thermo Scientific Orion Green Electrodes



Thermo Scientific Orion Green Electrodes contain no lead, mercury, cadmium or other hazardous materials, providing safe disposal for the environment.

# THINK GREEN - BE GREEN

Fisher Scientific provides all the tools and services you need to help you be Green!

Partnering with you and industry-leading suppliers to develop sustainable environmentally friendly business practices. That's our goal, and our commitment.

What you can do	Benefits
Consolidate orders; combine purchases so that each order is \$500 or more	<ul style="list-style-type: none"> <li>Reduces multiple deliveries and greenhouse gas emissions</li> <li>Saves on freight charges</li> <li>Saves time</li> </ul>
Purchase multiple-item packs instead of single	<ul style="list-style-type: none"> <li>Reduces waste from packaging materials</li> </ul>
Increase item lines per order	<ul style="list-style-type: none"> <li>Saves paper and energy</li> <li>Reduces order processing time</li> </ul>
Take advantage of one-stop purchasing <i>(Buying PCR enzymes? Bundle with tubes, pipet tips, bench covers, etc. Buying Cell Culture media? Bundle with plates, biohazard bags, serological pipets, FBS)</i>	<ul style="list-style-type: none"> <li>Provides a way to consolidate orders</li> <li>Reduces order processing time</li> </ul>
Order online at <b>fishersci.ca</b>	<ul style="list-style-type: none"> <li>Saves paper</li> <li>Faster order processing</li> <li>Reduces fulfillment errors</li> </ul>
Adopt EDI/XML transmission standards for common business documents	<ul style="list-style-type: none"> <li>Eliminates paper waste</li> <li>Increases accuracy</li> </ul>
Support institutional supplier consolidation initiatives	<ul style="list-style-type: none"> <li>Avoids multiple shipments from multiple vendors</li> <li>Eliminates loss of potentially hazardous materials via common couriers</li> </ul>
Avoid air shipments where possible	<ul style="list-style-type: none"> <li>Reduces CO<sub>2</sub> emissions</li> <li>Avoids expensive freight charges</li> </ul>

## Other ways that Fisher Scientific does green

Recycling	<ul style="list-style-type: none"> <li>Computer paper at all offices and facilities</li> <li>Surplus IT equipment through a federally certified recycler- processed 16 pallets of used equipment last year</li> </ul>
Saving Energy	<ul style="list-style-type: none"> <li>Air conditioning is turned off and lights turned down at our corporate offices on nights/weekends</li> <li>A 2005 renovation of data center included removal of 35 miles of under-floor cabling, which improved airflow and lowered energy costs by 10%</li> </ul>
Scheduled Shipment Program	<ul style="list-style-type: none"> <li>Introduced in 2005, the program identifies scheduled delivery days for a customer and automatically consolidates customer orders for a single shipment based on the delivery schedule for that customer</li> <li>Lowers number of physical shipments to the customer ordering cycle</li> </ul>



## Introducing Fisher Scientific's EcoSafPak Chemical Packaging

This innovative, patented, corrugated honeycomb packaging is expected to reduce greenhouse gas emissions and lower chemical spills. A typical box eliminated 1.4 cubic feet of Styrofoam material (based on two pieces: the base pad is 1.2 cubic feet [15x15x9.5"] and the top pad is 0.2 cubic feet). Based on estimated annual usage of approximately 390,000 of these Styrofoam pieces, EcoSafPak saves 215 tons of foam (429,000 lbs.), and 561,000 cubic feet – equivalent to 1040 twenty-yard dumpsters.

## Advantages

- 100% recyclable packaging
- Significantly reduced Styrofoam impact on garbage landfills
- Eliminated 1.2 million lbs. of annual Greenhouse Gas Emissions
- Eliminated 160-miles-long "line of Styrofoam" based on annual usage
- Actively expand changeover for other package sizes 1x4L, 1x1L, 1x500mL, and our 6x2.5L 1x2.5L, 6x1L, 6x500mL
- Corrugated honeycomb meets UN and ISTA standards

## Did you know?

- Fisher Scientific helps reduce 3.8 million lbs. (1.7 tons) of CO<sub>2</sub> emissions through fuel savings realized by shorter shipments via our nationwide warehouse network.
- Improved operations at Fisher Scientific warehouse eliminated 1.8 million lbs. of CO<sub>2</sub>, 23,000 lbs. of SO<sub>2</sub>, and 8,000 lbs of nitrous oxide emissions.

**Think  
green**



# Tips for going green

- If you plug your appliances into a power strip, turn the power strip off instead of simply turning off the device in question. This can reduce energy consumption and your CO<sub>2</sub> emissions by approximately 200 lbs. annually.
- Reuse Styrofoam and cardboard packaging. The boxes make great temporary storage for enzymes, media, and other reagents.
- Use a laptop computer. A regular desktop computer uses 50% more energy compared to a laptop.
- Recycle used ink cartridges. It can take up to three gallons of oil to create a brand-new one.
- Always make two-sided copies when using a photocopier. Every year on average, each office throws away 350 lbs. of paper, per employee. That translates into building a 12-foot-high wall from New York to Seattle every year.
- Save energy by turning off lights in unoccupied conference rooms and offices. At home, only use the lights you need and turn them off when you leave the room.
- Switch to green power through your local utility company.
- Change your lightbulbs. Replacing just one 75-watt incandescent bulb used two hours a day with a 19-watt CFL cuts 55 pounds of CO<sub>2</sub> emissions per year and up to 550 lbs. for the life of the bulb.
- A full refrigerator saves more energy. It takes 50% more energy to cool a near empty fridge.
- An average driver can save 143 gallons of gasoline and prevent about 2,778 lbs. of CO<sub>2</sub> out of the atmosphere in a year, by driving two fewer days each week. (Based on 12,000 miles traveled annually and twenty-four miles per gallon.)
- Recycle old cell phones. When discarded improperly, old cell phones can release lead, mercury and cadmium into the environment.
- Use a programmable thermostat. You can save up to 5% on your energy bill for every degree you lower your thermostat below 70° in winter and 2% for every degree above 72° in summer.