

Corporate Sustainability: J&J Greening Strategy

Agenda

- Drivers
- Greening Journey
- Greener Examples









Our Products: Save & Improve Lives









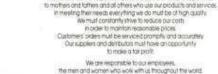




- '09 Sales \$63.7 Billion
- 120,000 Employees
- Operate in 60 Countries
- 3 Major Sectors

GREENPEACE

Drivers



We believe our first responsibility is to the doctors, nurses and parients.

Everyone must be considered as an individual. We must respect their signify and recognize their merit. They must have a serve of security in their class. Compensation must be fair and adequate and working conditions alean; orderly and safe.

We must be mindful of ways to help our employees fulfill their family responsibilities Employees must feel free to make suggestions and complaints There must be equal appoint with for employment, development and advancement for those qualified.

We must provide competent management and their actions must be just and efficial We are responsible to the communities in which we like and work

and to the world community as well. ust be good of bers - support good works and charles and bear our for share of taxes.

historic must make a sound profit

We must experiment with new ideas search must be corried on, improvive programs developed and meloies paid for w equipment must be purchased new facilities provided

and new products rounded.

nutlencourage civic improvements and better health and education. We must maintain in good order the property we are privileged to use protecting the environment and natural resources. Our final responsibility is to our stockholders.



Internal

- Credo
- Our Vision: Healthy Planet, Healthy People and Healthy **Business**

Valma

Our New Greener Direction: **Earthwards**

External

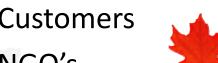
Consumers



- NGO's









Legislations









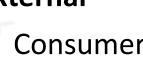


















THE BUSINESS CASE IS EVOLVING

Leading companies are using sustainability to win as they integrate NEW sustainability into their core business strategy Product/service innovation tied to and improved by Credible green sustainability marketing and **Innovation** Environmentally messaging focused charitable **Profitable** Differentiation activities aligned with business goals value creation Strategic Sustainability as a strategic growth Philanthropy platform and a Meeting legal lens for new requirements in Inspired culture markets. regions of operation Aligning employee partnerships and company Compliance Efficiency and incentives to foster Cost cutting collaboration and innovation around Cost savings with sustainability clear ROI, often Sustainability Uptake short payback periods **OLD Proactive** risk reduction Actively mitigating potential environmental **Green**Or business risks An **LRN** Company Johnson Johnson



A PICTURE IS WORTH A THOUSAND WORDS

The Perils of Plastic

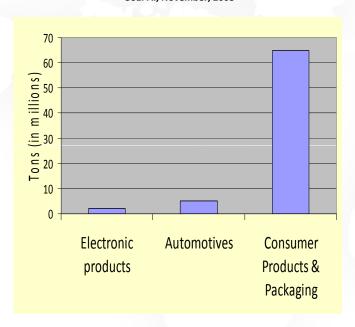


A host of modern ills that have been rising unchecked for a generation — obesity, diabetes, autism, attention-deficit/hyperactivity disorder — could have chemical connections. "We don't give environmental exposure the attention it deserves," says Dr. Philip Landrigan, director of the Children's Environmental Health Center at New York City's Mount Sinai Medical Center. "But there's an emerging understanding that kids are uniquely susceptible to environmental hazards."



"Products will be a key part of our sustainability journey"

Municipal Solid Waste In The United States: 2007 Facts And Figures, USEPA., November, 2008









Customers who purchase the new HP dv6929 Entertainment Notebook from Walmart or Sam's Clubs leave the store with the computer and its accessories cushioned safely in just the HP Protect Messenger Bag, made of 100 percent recycled fabrics.

recycled fab



Sam's Club Case-less milk jugs

•Packaging Waste makes up 30% of solid waste in the US.

- •Only 14% of Plastic Water bottles are recycled; they take up to 1000 years to decompose in a landfill.
- •In Europe regulations are forcing manufacturers to bear the cost of disposal.



Europe leads effort to push for design of "green" drugs

Before Dr. Lars Lööf writes a prescription for his patients, he checks a new database...he wants to know whether the medication might harm the environment. In some cases, he even can find a more environmentally friendly drug, all with the click of his mouse.

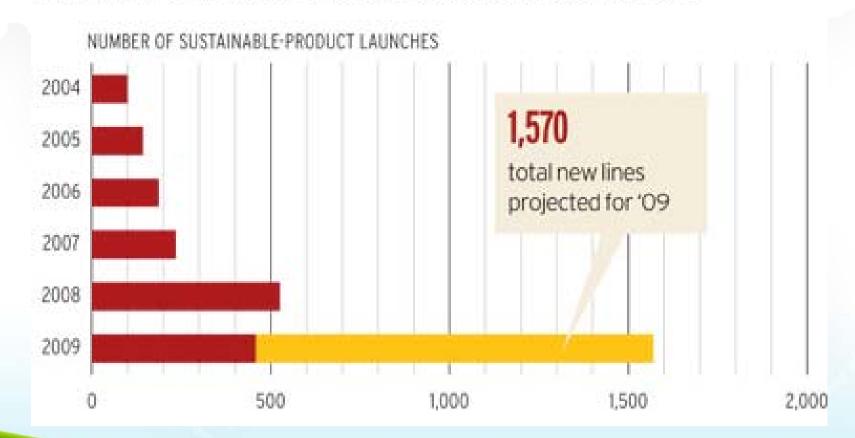
Environmental Health News - Jessica A. Knoblauch



Proliferation of "green" products

GREEN LIGHT FOR GREEN PRODUCTS

Recession or no, the pace of sustainable-product launches is heating up



Internal

Our Credo

 Our Vision: Healthy People, Healthy Planet and Healthy Business



Robert Wood Johnson, former chairman from 1932 to 1963 and a member of the Company's founding family, crafted Our Credo himself in 1943, just before Johnson & Johnson became a publicly traded company.

We believe our fist responsibility is to the doction, nurses and patients, to makes and fathers and of others who use our poducts and services in meeting the meeting when the patient by of high quality. We must constantly show to reduce our costs in market to manifath reasonable proces.

Customers order must be serviced promptly and accustolity. Our expelied and detribution must have an opportunity, of market to the patient of the patient.

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Research must be correct on innounties programs developed and mislates portion.

New enumerar must be plushased new kicilities provided and new products bunched.

Reserves must be corrected to provide to advet to times.

When we operate according to finals prorposes.

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DEVELOPING A SUSTAINABLE CULTURE HEALTHYPLANET

1990 Pollution Prevention Goals

2000 Next Generation Goals

2005 Healthy Planet Goals

Working on Healthy Future 2015 Goals

COMPLIANCE

Zero releases, violations, permit exceedances

ENVIRONMENTAL LITERACY

Increased employee environmental literacy

BIODIVERSITY

Enhanced biodiversity conservation

TRANSPARENCY

Share facility specific sustainability information publicly

PRODUCT STEWARDSHIP

Improved environmental profile of products; take-back programs for electronic equipment

WATER USE

10 percent absolute reduction over 2005 levels

PAPER AND PACKAGING

Increased sourcing of paper and packaging from certified forests or increased recycled content; franchise goals for eliminating polyvinyl chloride (PVC)

CARBON DIOXIDE REDUCTION

7 percent absolute reduction over 1990 levels for stationary sources; 30 percent reduction in emissions per kilometer for fleet vehicles compared to 2003 levels

WASTE REDUCTION

10 percent absolute reduction over 2005 levels for both nonhazardous and hazardous waste

EXTERNAL MANUFACTURING

New operating standards deployed and conformance measured



J&J's Green Successes



 #1 Largest Corporate Fleet of Hybrid Vehicles in U.S. Automotive Fleet Magazine 10/07



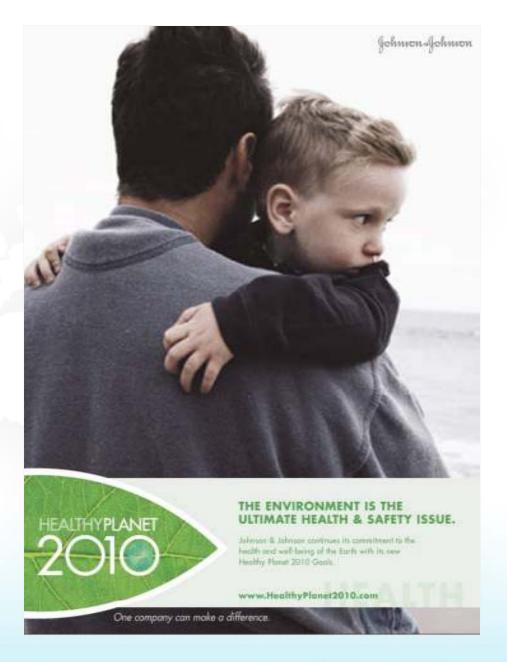
- #2 Largest Corporate User of On-Site Solar energy
 World Resources Institute
- EPA "Green Power Leadership Award" 6th consecutive years
- EPA's Smartway® Excellence Award to J&J's SLC for efficient product transport



- 83% of Paper Packaging is "Certified Sustainable" or has recycled fiber (30% PCR)
- All legacy CPC Packaging is "PVC-free"
- Reduced J&J water use by 6%
- Reduced J&J waste by 4% & hazardous waste by 10%



"THE
ENVIRONMENT
IS THE
ULTIMATE
HUMAN
HEALTH ISSUE"



Our New Greener Direction...









The Earthwards™ Product Scorecard is a userfriendly tool that utilizes a step-by-step process to analyze five key product areas with the potential for the greatest environmental impacts:









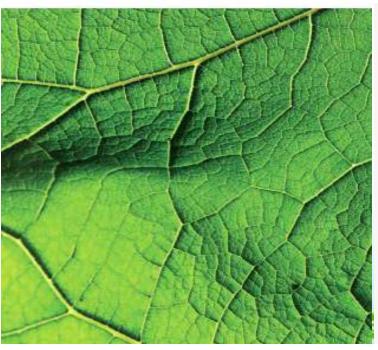


5 FACKASING

The Earthwards™ Product Scorecard is designed to capture and measure product changes that result in improvements in materials, packaging, energy, waste

and water use. After taking a product through the scorecard, teams will be able to decide which areas are most relevant to their product, customer and market.

*Innovation counts! Products can also gain points for making improvements that may be outside of the five key areas above.



Earthwards™ Product Scorecard

pre-requisites	achteved
Know materials, ingredients inyour product	
Identify and plan to address J&J Watch List materials	
Know where product and packaging and up after use	
Know whether agricultural or mined ingredients come from outstrally or environmentally sensitive regions	

complete life cycle screen

To identify priority goals for the product (see separate screening questions)

go als

Materials	1	Meet, consumer need with less material or	
	22	Use more environmentally preferred resterial (see fer) or	
Packaging	-31	Meet consumer need with less packaging or	
	4	Use more environmentally preferred packaging material (see list) or	
nergy Energy	5	Make product more energy efficient in use or	
	-6	Make manufacturing or distribution more energy efficient or	
⊚ Waste	7	Make product with less waste during manufacturing or	
	-81	Recover more product, after use, for reuse or relay ding or	
Water	9	Make product more water efficient in use or	
ar acer	10	Make manufacturing more water efficient	

research the

Achieve d all pre-requisites + three other goals



External Review:

- Scot Case Terrachoice
- Clive Davies EPA
- Matthias Finkbeiner Univ. of Berlin
- Dan Goleman Ecological Intelligence
- Dara O'Rourke GoodGuide
- Jim Fava Five Winds International

Internal Focus Groups:

- Sales, R&D, SupplyChain
- Recognized Brands
- Hospital Customers

EARTHWARDSTM Scorecard Goals











Earthwards Website:
Tools, Guides, Checklists,
Protocols, Goals, Best
Practices, Case Studies























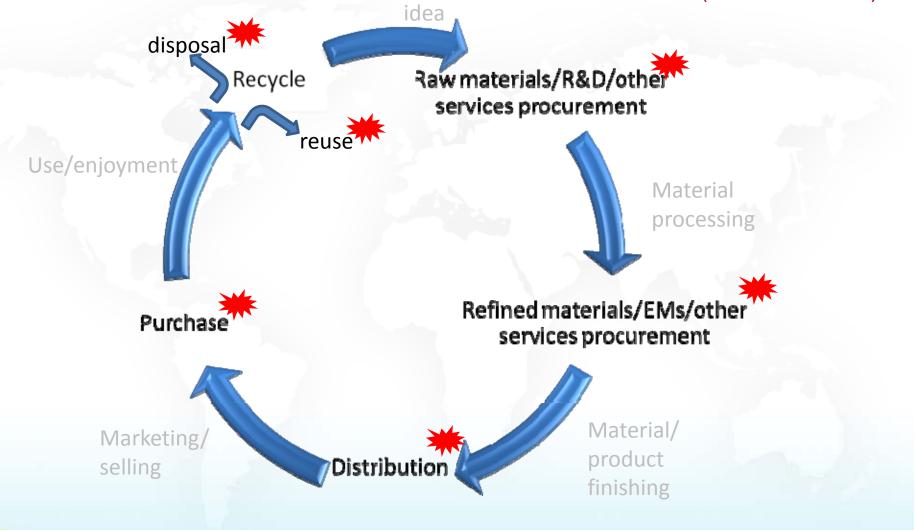


Link to Earthwards ™



Product Life Cycle – procurement impacts

(direct + indirect)



All of these processes have sustainability opportunities

Sustainability

Active Pharmaceutical Ingredients
Construction, Capital and Facilities Services
Chemicals

Consulting, Temp Labor and Professional Services External Manufacturing

Fleet, Travel, Meeting and Relocation Services Information Technology Strategic Sourcing Logistics

Marketing

Media & Advertising

Metals & Plastics

Packaging

RD & CRO

Supply Standards (~compliance)



Operational Goals (continual improvement)



Dialogue



Partner

with our strategic suppliers (<50/category)

Innovation Goals (Transformational Improvement)



POSITIVE POTENTIAL™



POSITIVE POTEIVITAL

Introduction

Companies today are facing difficult questions about the waste they generate, by using positive sustainability, firms can effectively balance the generation of packaging waste. This method can be utilized as a planning tool to guide the changes to the variables that influence sustainability while helping to identify the efforts necessary to

A "holistic" approach that allows brand managers to establish goals for waste reduction, positive sustainability, and reduction of net impact annually. This approach also helps companies establish sustainability hurdle rates that can be incorporated into day-to-day process along with simple messages about sustainability the



POSITIVE POTENTIAL™ is an aggressive, systematic method that can be used to calculate the sustainable potential of brands, connecting sustainability initiatives to economic pathways.

POSITIVE POTENTIAL™ is a strategy designed for dealing with packaging waste. It helps consider sustainability in terms of an equation that can be used to balance (and measure) net negative impact versus net positive impact of sustainability.

$$(X-W)-Z_{(z1+z2)} \le Y$$

X = Total Packaging Waste

W = Average Packaging Waste Recovered

Z = Waste Reduction (24=optimization, 22=innovation)

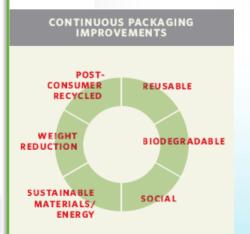
Y = Positive Sustainability Initiatives

The following is a tool to help you apply this method for your own products and packaging. The Projection and Calculation worksheets will guide you through each variable in the above equation for multiple years so you can apply it at a regional level or product level and project

For more informating on this model, please consult the supplemental document posted on the WWEHS website. [add link & Apperlink]

Continue to Projection

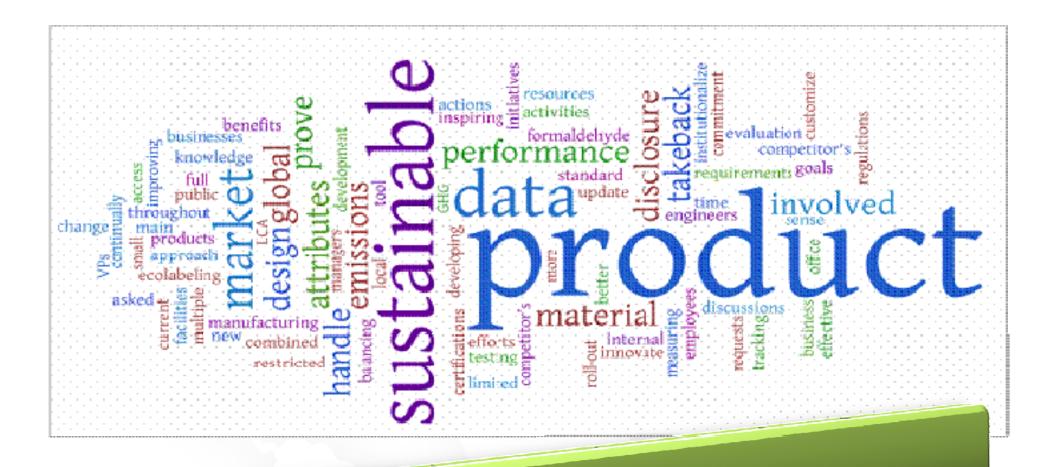
J&J Sustainable Packaging Strategy: Doing less bad and more good....



GAIA SCORING SYSTEM – USER GUIDE SNAPSHOT

Polyois	Glycerin		100
	Propylene Glycol		95
	Butylene Glycol		89
Preservative	Phenoxyethanol		100
	Sodium Benzoate		99
	Salicylic Acid		97
	Methylparaben		84
	DMDM Hydantoin		79
	Quaternium-15		75
	Cetrimonium Chloride		75
	Benzyl Alcohol		74
	Zinc Pyrithione	\rightarrow	10
Reducing	Dihydroxyacetone		89
Refatting	Stearic Acid		70
	0' 'A' ' '	_	40

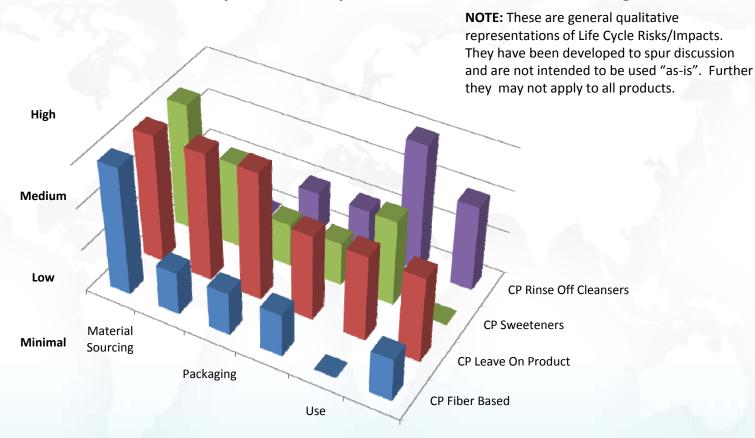




GreenER Example

General LCA impact areas across our Consumer Products

Relative Qualitative Life Cycle Risks/Impacts of Consumer Product Categories





JOHNSON'S ® Baby, LISTERINE ® & Neutrogena Wave™ Weight Reduction

•Johnson's Baby: In 2009, we will convert the Johnson's Baby bottles to 30% PCR HDPE...Will save 78 tons of virgin plastic

•LISTERINE: In 2008, the
LISTERINE package was
redesigned to reduce the overall
weight of the package by 30%;
Saving 400 tons of PET in US

•Wave: 32% packaging reduction















Aveeno ™ Positively Nourishing Lotion

Rating: High	Environment	Economic	Social
	 Raw materials used were carefully selected to be 100% or close to 100% plant-derived and free of petroleum-derived. Recyclable packaging and contain 25% PCR Partnering with manufacturing site to achieve decreased water, energy and waste Lower overall carbon footprint through improved raw material transportation 	•\$19MM sale expected in the first year •The most natural adult beauty product lines of J&J	 All products contain shea butter, buriti oil from Beraca, a socially and environmentally responsible suppliers All products contain non-GMO colloidal oatmeal, sourced entirely from US and Canada.

Aveeno: Reusable

REUSABLE AVEENO BODY WASH AND HAIRCARE REFILLS AND CLUB APPROACH

- •Reusable containers
- •Use of PCR
- •80% less plastic used in pouch; per 1,000,000 pouches, 64,000 pounds (32 tons) of plastics saved
- Use of bio plastics
- •Challenges: lot number tracking; life of pumps; micro issues





INSPIRATION













Sun Crystal Natural Sweetener

Natural & Supports Green Energy

- No artificial or synthetic ingredient
- 100% natural ingredients
- No bio-engineered or genetically modified (GM) ingredients
- 1% of sales to NGOs that supply solar energy resources worldwide





Blood Glucose Meters & Ultra Test Strips

Removal and replacement of materials of concern Paper sourced from sustainable certified sources

Glucose Meters - Removed the following: Cadmium (Cd); Chromium Cr VI; Lead (Pb); Mercury (Hg); Polybrominated Biphenyl (PBBs); Polybrominated Diphenylethers (PBDEs)

Ultra Test Strips - Removed chemical of concern on various lists including USA CA Prop 65, e.g., Antimony trioxide; strip made from paper sourced from certified sustainable forests

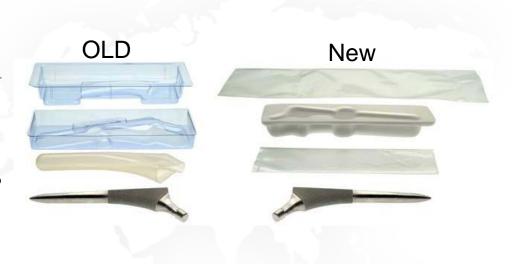
Carrying Case - Replaced latex with lycra; Replace PVC with Thermoplastic Polyurethane (TPU)

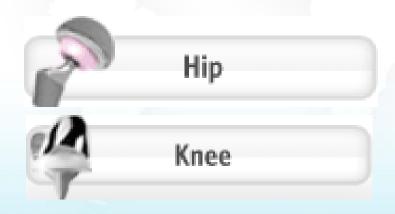




Thermoforms: Weight Reduction

- Reducing packaging from 9 components to 6
- Reducing weight by 12%; inventory & shipping costs



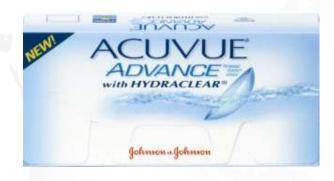




Acuvue: Green Chemistry 2008 J&J GC Award

Process improvement: replaced isopropyl alcohol with propylene glycol in the process

- Reduced 50 tons VOC emissions/yr
- Reduced 212,000 gallons of IPA/yr
- Reduced 8MM lbs of Waste in 2008
- Cost savings of \$7.7MM/yr





STERRAD System

Greener Material Use

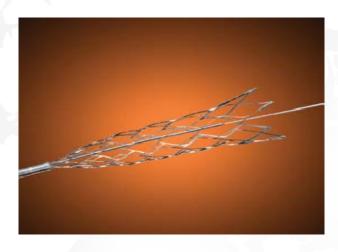
- Does not use EtO
- Uses hydrogen peroxide
- Simple to use: one plug in where as EtO-based system requires multiple plug ins.
- Higher throughputs: process 80 trays vs 6 trays using EtO-based system
- No Water required: No water or wastewater plumbing and no wastewater discharge



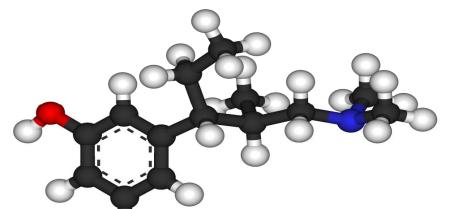
Fractionation: Green Technology

- Fractionation process vs distillation
- Dramatically increased purity of polymer while reducing the number (toluene and methanol use eliminated) and amount of solvents used
- 45,000 liters of solvents eliminated & saved \$20,000/kg of polymer; a projected savings \$2MM/yr









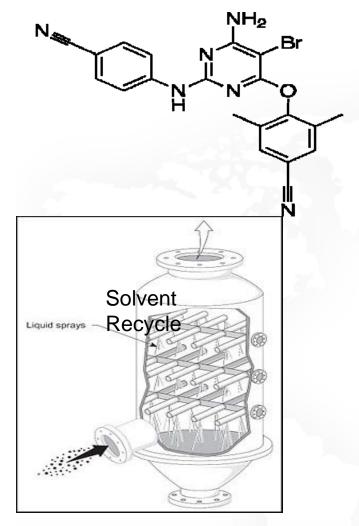
Tapentadol

J&J '07 Green Science Award Winner



- 2nd Generation with unprecedented stereoselective route which tripled yield increase
- Increased yield while reducing wastes
 - Reduction of wastes by 87%; 8 million gallons/yr of solvent use reduction and 9.6 million kgs of reagent use reduction
- \$\$\$ Savings:
 - Significant business impact: expected annual savings of \$80MM/yr







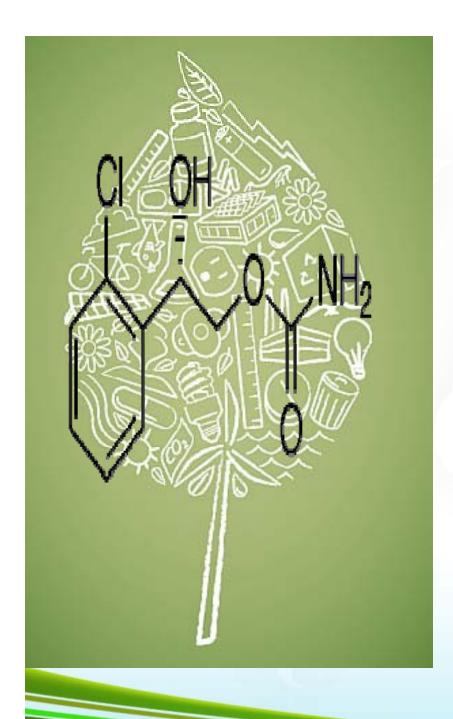


Intelence (etravirine, TMC 125) Green Chemistry

- An aids drug
- Increased yield while reducing material use and wastes
 - Reducing steps; increasing the use of water as solvents; decreasing the use of chlorinated solvents
 - Reduced the spent waste solvents;
 540,000 liters/yr spent solvent elimination via:
 - 60% reduction in the use of methylene chloride in spray drying step via recycling back into the step

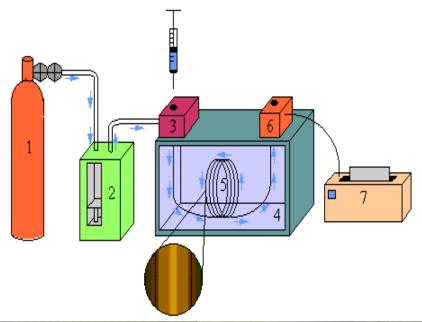
\$\$\$ Savings:

Expected savings of \$90MM/yr



CarisbamateGreen Chemistry

- Treatment for epilepsy and neuropatic pain
- Increase yield while reducing wastes and material use
 - Reduced steps from 6 to 3
 - Increased yield by 4 folds (21% to 83%)
 - Eliminated MeCl2
 - 60 tons of waste avoided
- \$\$\$ Savings
 - \$ 90MM savings for JNJ





Supercritical Fluid Chromatography

Green Technology

- Use of liquid CO2 as solvent in liquid chromatography system
- Number of chromatography experiments increased by 7 folds
- Reduced 5000 liters of solvent used per year

Efficient API Recovery Extraction and Crystallization

Rating: High	Environment	Economic	Social
Paliperidone Palmitate: FDA approved August, 2009 (see below0	Efactor from 105 to 12 liters of solvents /1 kg of API	Savings of 1.3 M/yr in 2009; higher in 2010 and beyond	 Non-renewable, petroleum based material use avoidance Positive contribution to quality of lives of patients w/schizophrenia
Project Orange	Efactor from 1000 to 15 liters of solvents /kg of API	Savings expected to be 0.68M/yr once it is launched	

August 5, 2009 — The US Food and Drug Administration (FDA) has approved a long-acting, once-monthly formulation of paliperidone palmitate injection (*Invega Sustenna*, Janssen, a division of Ortho-McNeil-Janssen Pharmaceuticals, Inc) for the acute and maintenance treatment of schizophrenia in adults.

