WWW.DESIGN-COMPASS.ORG

COMPASS®

COMPARATIVE PACKAGING ASSESSMENT

A web-based application that allows packaging professionals to compare the environmental impacts of packaging designs using a life cycle approach.

DEVELOPED BY THE SUSTAINABLE PACKAGING COALITION

Packaging designers and engineers are key decision makers in the way material resources are used. COMPASS is intended as a design phase tool that helps designers consider the environmental impact of a package's entire life cycle - from manufacture to end of life. COMPASS helps packaging professionals make more informed material selections and design decisions early in the development process.

COMPASS ASSESSES PACKAGES ON:

Consumption Metrics

- Fossil Fuel
- Water
- Biotic Resource
- Mineral

Emission Metrics

- Greenhouse Gas
- Human Impacts
- Aquatic Toxicity
- Eutrophication

Packaging Attributes

- Content (Recycled or Virgin)
- Sourcing
- Solid Waste
- Material Health

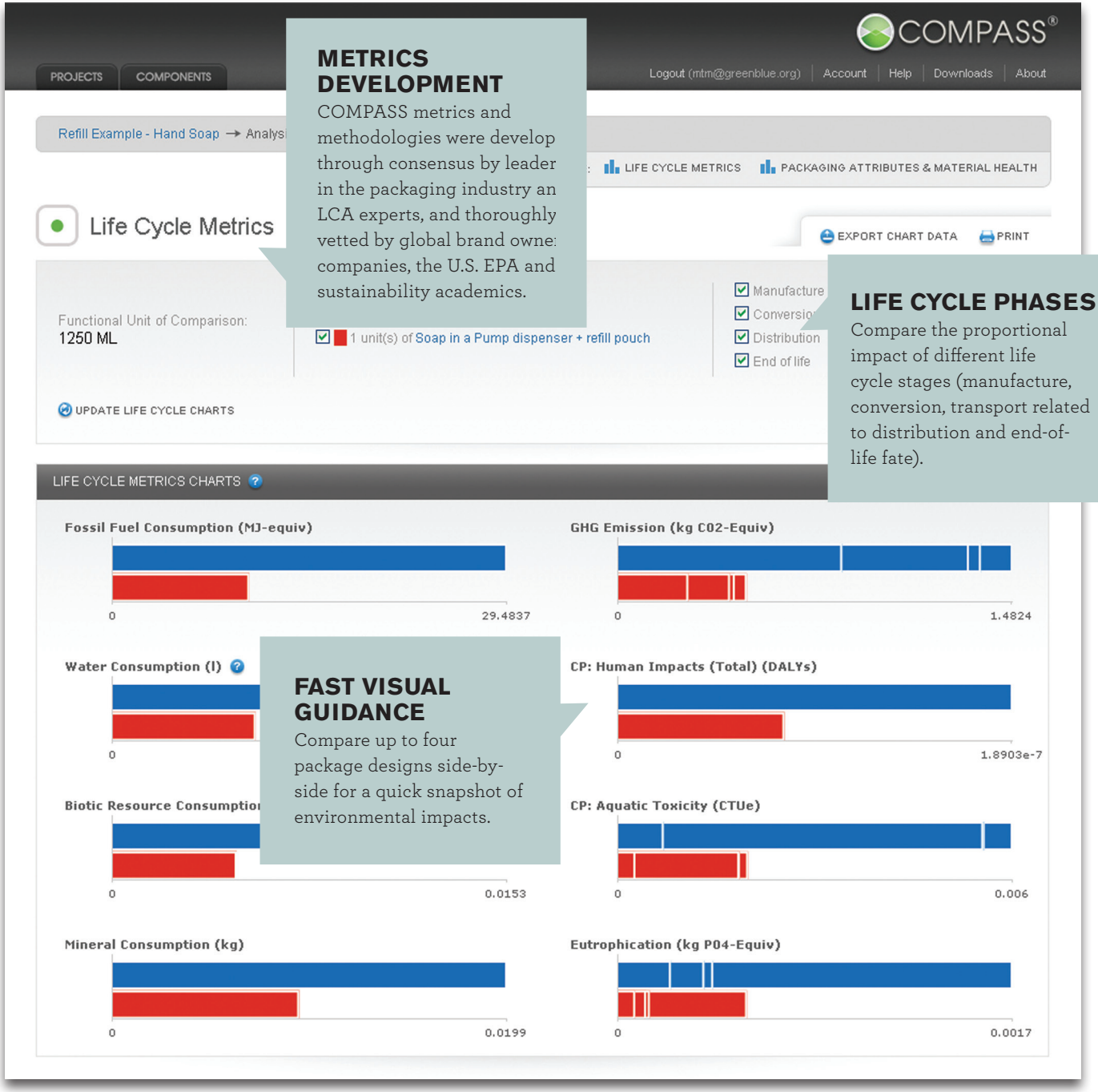
FREE TRIAL AVAILABLE AT WWW.DESIGN-COMPASS.ORG

COMPASS is used by leading global brand owner companies such as Procter & Gamble, Johnson and Johnson, UPS and others. COMPASS is also used by the undergraduate and graduate packaging programs at Rochester Institute of Technology and Michigan State University.

Annual license subscription provides access for five secure user accounts and costs $1,000 for SPC member companies and $2,000 for non-member companies.

SUSTAINABLE PACKAGING COALITION®
a project of GreenBlue®

Funded in part by the U.S. EPA



METRICS DEVELOPMENT

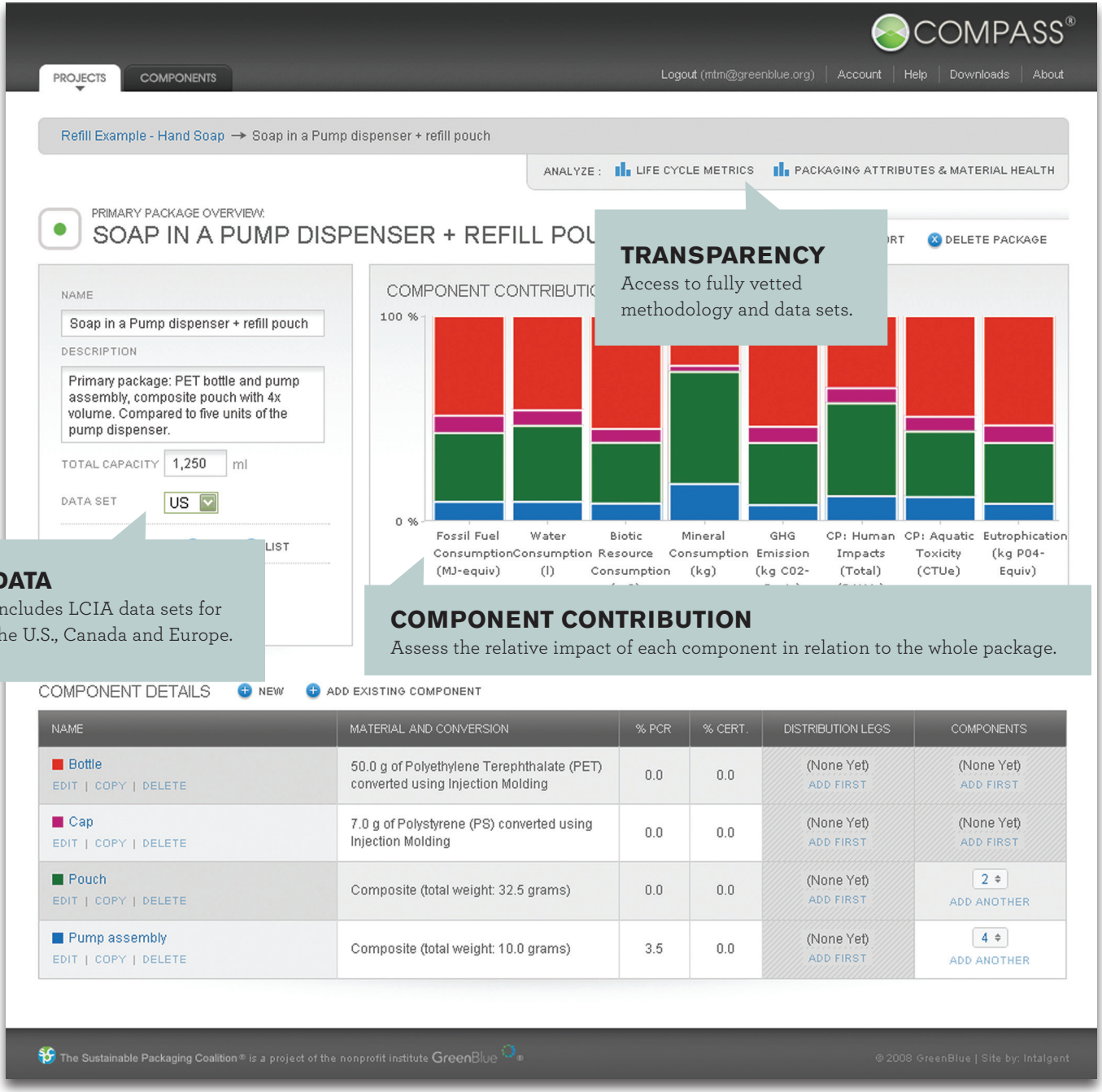
COMPASS metrics and methodologies were develop through consensus by leader in the packaging industry an LCA experts, and thoroughly vetted by global brand owne: companies, the U.S. EPA and sustainability academics.

LIFE CYCLE PHASES

Compare the proportional impact of different life cycle stages (manufacture, conversion, transport related to distribution and end-of-life fate).

FAST VISUAL GUIDANCE

Compare up to four package designs side-by-side for a quick snapshot of environmental impacts.


COMPASS®
PROJECTS
COMPONENTS
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Refill Example - Hand Soap → Soap in a Pump dispenser + refill pouch
ANALYZE : LIFE CYCLE METRICS PACKAGING ATTRIBUTES & MATERIAL HEALTH
PRIMARY PACKAGE OVERVIEW:
SOAP IN A PUMP DISPENSER + REFILL POU
DELETE PACKAGE
NAME
Soap in a Pump dispenser + refill pouch
DESCRIPTION
Primary package: PET bottle and pump assembly, composite pouch with 4x volume. Compared to five units of the pump dispenser.
TOTAL CAPACITY 1,250 ml
DATA SET US
COMPONENT CONTRIBUTIO
100 %
0 %
Fossil Fuel Consumption (MJ-equiv)
Water Consumption (l)
Biotic Resource Consumption
Mineral Consumption (kg)
GHG Emission (kg C02-
CP: Human Impacts (Total)
CP: Aquatic Toxicity (CTUe)
Eutrophication (kg P04-Equiv)
TRANSPARENCY
Access to fully vetted methodology and data sets.
DATA
Includes LCIA data sets for the U.S., Canada and Europe.
COMPONENT CONTRIBUTION
Assess the relative impact of each component in relation to the whole package.
COMPONENT DETAILS
NEW
ADD EXISTING COMPONENT
NAME
MATERIAL AND CONVERSION
% PCR
% CERT.
DISTRIBUTION LEGS
COMPONENTS
Bottle
EDIT | COPY | DELETE
50.0 g of Polyethylene Terephthalate (PET) converted using Injection Molding
0.0
0.0
(None Yet)
ADD FIRST
(None Yet)
ADD FIRST
Cap
EDIT | COPY | DELETE
7.0 g of Polystyrene (PS) converted using Injection Molding
0.0
0.0
(None Yet)
ADD FIRST
(None Yet)
ADD FIRST
Pouch
EDIT | COPY | DELETE
Composite (total weight: 32.5 grams)
0.0
0.0
(None Yet)
ADD FIRST
2
ADD ANOTHER
Pump assembly
EDIT | COPY | DELETE
Composite (total weight: 10.0 grams)
3.5
0.0
(None Yet)
ADD FIRST
4
ADD ANOTHER
The Sustainable Packaging Coalition® is a project of the nonprofit institute GreenBlue®
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