



INTERNATIONAL  PAPER

Shorewood Packaging

Shorewood Packaging's Path to Sustainable Gravure Printing

Agenda

Energy Management

Chemistry

Internal Technological Developments

Printed Waste Management

Technology Transfer



Sustainable

Gravure Printing

Energy Management

- **3 High Speed Riviera Gravure Presses Replace 6 Less Productive Gravure Presses**
- **High Efficiency Lighting**
- **Energy Efficient Oxidizers**
- **4 High Speed Heidelberg Offset Presses**
- **Gas and Electricity**

Sustainable Gravure Printing

Chemistry

- **Energy Efficient Curing and Drying**
- **Nitrogen Inerted Low Odor UV Coatings Systems**
- **Electron Beam Coating Curing Systems**
- **Incorporation of Increasing Amounts of Renewable Resource Components and Products**

Sustainable

Gravure Printing

Internal Technological Developments

- Patent Pending, in-line refleXions, brilliant foil replacement technology.
- Extremely Low Migration, FDA Compliant System
- Cost and Waste Saving through Spot Applications
- Elimination or Minimization of Plastic Refuse

Sustainable **Gravure Printing**

Printed Waste Management

- **Computer Assisted Color Control**
- **Printing-Press Print-Characterization-Profiling**
- **Reclamation of Trim Waste**
- **Inline Defect Detection and Rejection Minimizes Sort**

Sustainable

Gravure Printing

Technology Transfer

Offset to
Gravure and
Flexo

Gravure to
Offset and
Flexo

