



Convention GCL - Nancy

Marco Giovannini Chairman Guala Closures Group

June 2015

- COMPANY OVERVIEW
- 2. GENERAL INTRO ON RIGID PACKAGING INDUSTRY
- 3. SUSTAINABILITY GCL ROAD MAP

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- 4. SUSTAINABLE PRODUCT
- 5. SUSTAINABLE PROCESS
- 6. DOWN TO THE ROAD





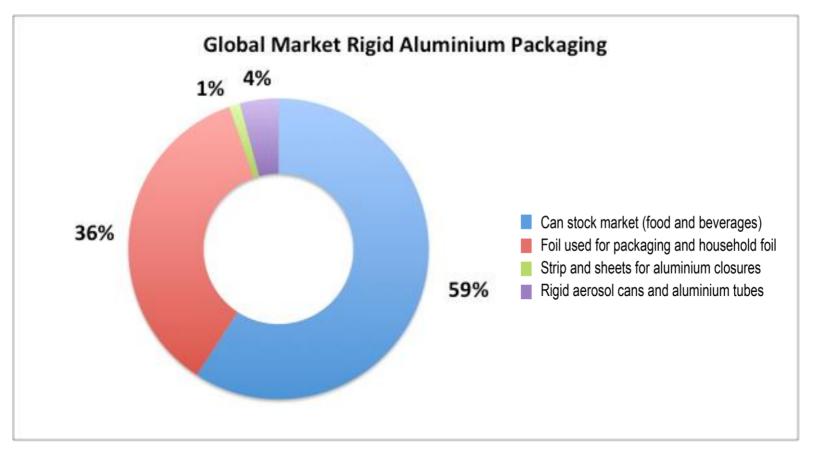
1. Company Overview





2. General Intro on rigid Packaging Industry

Overview on rigid packaging industry market



% On a total volume of 8.450 Kton

Sources CRU, EAFA and EAA



2. General Intro on rigid Packaging Industry

Main issues for rigid packaging industry

Carbon footprint: working on

- Raw Material

- Internal/External decoration

- Process
- Transport









2. General Intro on rigid Packaging Industry

4 reasons for being Sustainable – GCL guidelines

- Philosofical approach

- Competitiveness

- Anticipate UE rules

- Client expectations





2011-2015 Sustainability Strategy

- Management commitment
- Italy kick-off Country



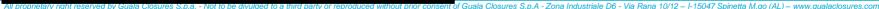




2011-2015 Sustainability Strategy

- Annual Sustainability Report
- Sustainability Best Practices









-Inside

Energy Consumption, Raw materials, Water consumption, Waste, Transport



Health&Safety, Training&Continuous Improvement, Diversity, Production Efficiency, Innovation



- Outside

GHG Emission, Customer Satisfaction





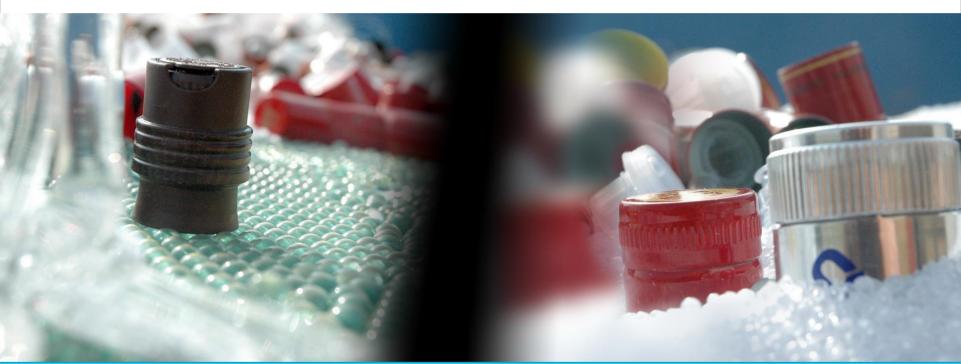






(Comparison of the second of t

- Products
- Process



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4. Sustainable Product

Aluminium

Downgauging&Scraps

Decoration: No Varnish

UV Printing



Weight reduction

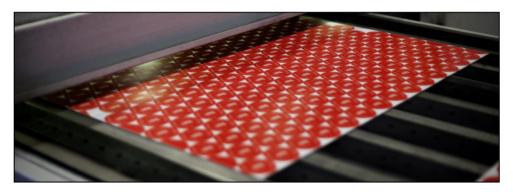
Injection Cycle time improvement

Decoration: Bi-material

Recycle

Monomaterial plastic product

Aluminium Green Cap











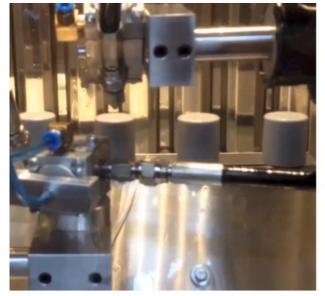
From traditional Metallization Process...



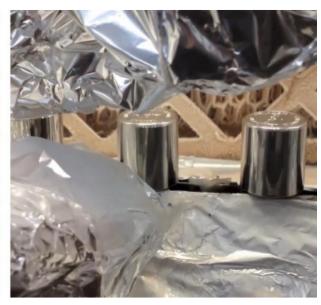


(a) ... to alternative Metallization Process

PHISICAL VAPOUR DEPOSITION => SPUTTERING







UV SPRAY COATING

METALLIZATION

UV TOP COATING



Energy use reduction





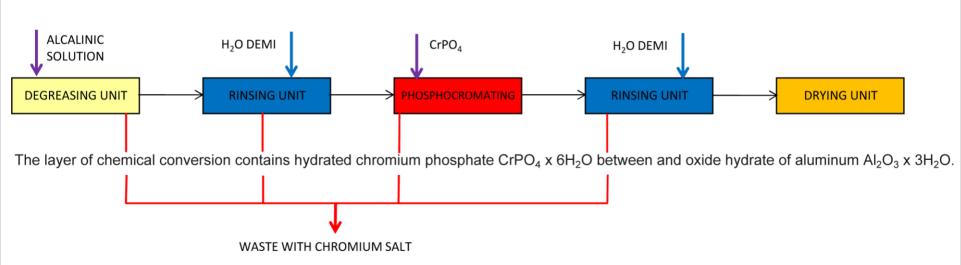


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Impact on hazardous waste, data comparison versus traditional metallization process: -34%



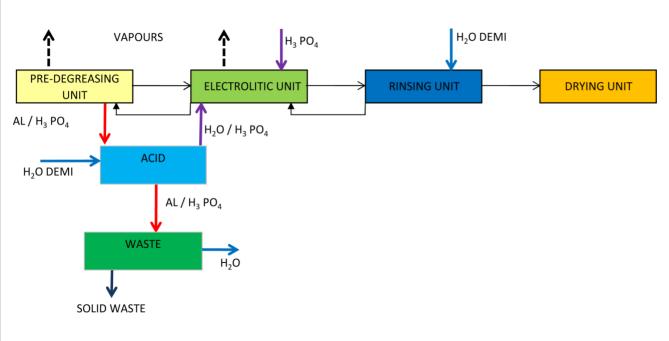
From standard degreasing process for aluminum...







... to chrome Free (Magenta line)

















Impact on

- energy consumption,
- water consumption,
- hazardous wasto

| - Nazardous waste | | | |
|---|------------------------|-----------------|-------------|
| DATA COMPARISON | STD DEGREASING PROCESS | MAGENTA LINE | REDUCTION % |
| Electricity [kWh/ton of total production] | 173 | 54 | -69% |
| Water consumption [m ³ /ton of total production] | 0.92 | 0.42 | -55% |
| Waste [kg/ton of total production] | 530 | 98 | -81% |
| Hazardous Waste [kg/ton of total production] | 477 | 14 | -97% |





6. Down to the Road

2016 -2020 (GCL)

Compared Target:

How to deploy the Italian Road Map to worldwide GCL

- Worldwide Carbon Footprint
- Worldwide Sustainability Indicators and **Objectives**







6. Down to the Road

Next Steps: 2 main Key issues (Packaging Industry)

- How to apply Sustainability regulations outside UE?

- How to stimulate/award "Virtuous" producers vs others?









Thanks!