



Dow Polyurethanes

Innovation and Sustainability

Project K12 Mid Term Conference
Pont Canavese – May 18, 2017

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Sustainability

Innovation



Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY

Driven by Innovation

World-Leader in Material Chemistry

- **\$1.7 B** R&D investments
- **30% of sales** are new products
- **More than 560 US** patents granted in 2013
- **4 time** Thomson Reuters Top 100 Global Innovator
- **5 R&D 100** Awards in 2014

World-Class R&D

- **6,300 researchers** worldwide
- Strong customer engagement at strategically located R&D centers
- Leading R&D partnerships at top tier universities and national labs
- Accelerated innovation through high throughput capabilities

Industry Leader in Sustainability

- **\$5.7 B** in products highly advantaged from sustainable chemistry
- **40%** reduction in energy intensity since 1990 – equivalent to annual energy consumption of **48 million** homes
- **308 MM** metric tons of GHG emissions reduced from operations since 1990
- **First** chemical company to earn National Safety Council's Robert Campbell Award
- **9 U.S.** Presidential Green Chemistry Awards – more than any other company
- **14 times** named to Dow Jones Sustainability World Index
- **Ranked #1** for GRI Reporting Guideline compliance among Fortune 100 companies



Redefining the Role of Business in Society.

Sustainability is our commitment. This is how our employees make it happen.

#DOW2025

Sustainability

Innovation

Dow Polyurethanes

Sustainability

Sustainable Substances

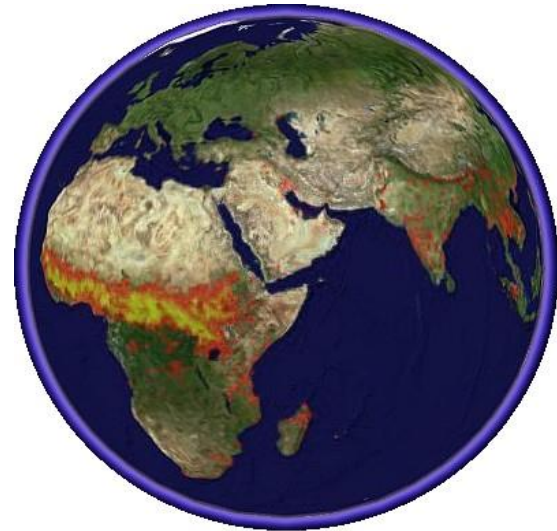
Circular Economy

Lightweighting C-footprint

Energy Efficiency

Sustainable Substances

Eco-friendly blowing technologies
ODP Ozone Depletion
GWP Greenhouse Warming



Sustainable Substances

Halogen-free Flammability technology
Flexible Foams
VORAGUARD™



Sustainable Substances

Polyurethane Elastomers
Hg-free catalyst
MbOCA-free



Circular Economy

Renewable Resources
VORALAST™ R
GREENFOOTPRINT project



Circular Economy

Recycling technologies
for thermoset PU polymers
in durable applications



Lightweighting Cfootprint

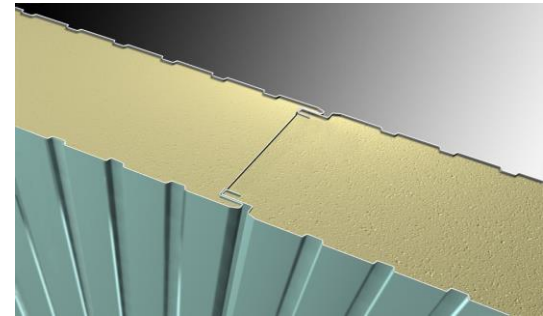
Composites technologies
for structural performance
and lightness



Energy Efficiency

V PLUS PERFORM™
for insulated metal panels

Halogen-free technology



Sustainability
Achieve LEED v4
standards



Efficiency
Realize outstanding
insulation performance



Fire Safety
Reach high reliability –
certified with Bs1D0



Design Freedom
Less weight and thinner
construction – more space
and higher ROI

Energy Efficiency

Appliances Insulation Most Effective Technology
ENERG-ICE project



Energy Efficiency

Breakthrough insulation
for domestic appliances
K12 project



Sustainability

Innovation



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Innovating for You

