COP 24 SHOWCASE MATERIAL
SABIC ENERGY AND RESOURCE EFFICIENCY EFFORTS
From making cars and planes more fuel-efficient, to contributing towards water conservation, and helping enable colorful smartphone cases, we find solutions to the challenges of today to help our customers achieve their ambitions and build a better tomorrow.

SABIC IS A GLOBAL LEADER IN CHEMICALS
SABIC AT-A-GLANCE

1976 Company established
34,000 Employees around the world
50 Countries of operations
3rd Largest global chemical company*
120th Largest public company in the world*
4 Core businesses

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86 US$ B**
4.9 US$ B**
39.9 US$ B**
≈ 150
11,534
64

Total assets
Net income
Annual revenue
New products each year
Global patent filings
World-class plants worldwide

*Forbes 2018  **Billion
OUR BUSINESSES

BUSINESS PORTFOLIO

PETROCHEMICALS
- Polyolefins
- Polycarbonates and Blends
- PVC, Polyester and Polystyrene
- Synthetic Rubbers
- Specialty Polymers & Polymer Additives
- Glycols, Olefins, Oxygenates and Aromatics
- Chemical Intermediates & Industrial Gases

SPECIALTIES
- Engineered Thermoplastics
- Specialty Compounds
- Sheet & Film
- Composites
- Additive Manufacturing
- Fluids
- Thermosets and Additives

AGRI-NUTRIENTS
- Nitrogen
  - Prilled Urea
  - Granular Urea
  - Ammonia
- Phosphate
  - DAP and Dark DAP
  - MAP
- Specialty
  - NPK
  - TGU

METALS*
- Long Steel
  - Rebar
- Wire Rod
- Rebar in Coil
- Flat Steel
  - Hot Rolled Coils
  - Cold Rolled Coils
  - Galvanized Rolled Coils
  - Pre-painted Rolled Coils

* Supplied under SABIC brand through Hadeed, a fully-owned SABIC Affiliate
OUR SUSTAINABILITY STRATEGY:
MAIN FOCUS AREAS AND ACHIEVEMENTS IN 2017

Innovation and Sustainability Solutions

- **82** Total Sustainability Solutions

Human Capital Development

- **+24,900** Training program participants

EHSS and Product Safety

- **14%** Decrease in Total Recordable Incident Rate

Supply Chain

- **93%** solids
- **100%** liquids
- **35.2%** Material-loss Intensity

Resource and Energy Efficiency*

- **9.3%** GHG Emissions Intensity
- **7.6%** Energy Intensity
- **43%** Reduction in Flaring Emissions
- **8.8%** Water Intensity
- **3.5 million MT** Total Current CO₂ Utilization

*Sustained by KPMG
- We are currently refreshing our materiality priorities and have linked SDG's to the current sustainability priorities
ENERGY EFFICIENCY BY ENERGY MANAGEMENT SYSTEM

Cross Functional EM Approach

Cross Functional Energy Team
- Cross functional Energy Focus Team at Site level
- MFG 2025 Energy and Sustainability objectives alignment

Energy & Sustainability Focus
- Capitalize on Virtual Team
- Performance review rhythm
- Execution of energy and sustainability projects

Culture Transformation
- Building internal capabilities
- SABIC Certified Energy Experts
- Executing assessments
- Sharing best practices and tools

Energy & Sustainability Improvement

1.4% Energy Intensity Reduction
1.5% GHG Intensity Reduction
Objective: Develop **expertise** and **transform culture** related to energy use and efficiency

Sustainability KPI’s impacted: GHG, Energy, Water, Material Effectiveness

Status:
- 4 cycles of training completed
- 84 SABIC Certified Energy Experts graduated
- Graduates are required to document two projects personally with applied principles from the training

Path Forward:
- Continued engagement and development of SABIC Certified Energy Experts
- Next phase is designing a light version for engineers and front liners
SITE ENERGY OPTIMISER IMPLEMENTATION

Energy Optimiser:
The Site Energy Optimizer tools aids sites to simulate, monitor and optimize the overall Site energy performance. The Site Energy Optimizer is used as a continuous improvement tool by Front Liners, Process Engineers and Project Engineers.

Sustainability KPI’s impacted: GHG, Energy

Potential Savings:
- Potential for improvement varies site to site.
- Preliminary potential savings by improve the energy cost by following actions implementation;
  - Boiler load Management.
  - Steam Extraction Management
  - Major Equipment and Drives Management
  - Let down steam and Import Steam Management
Objective: As part of our Energy Policy; decreasing fossil fuel energy demand by using renewables to improve the energy consumption and GHG footprint of our products. As part of our Top Sustainability Priorities linked to the SDGs implementation sourcing of renewable electricity is key.

Sustainability KPI’s impacted: GHG, Energy

Path Forward:
- Exploring of renewables to increase the share of clean energy in SABIC’s portfolio
- Sourcing of renewables as defined in our global Energy policy

RENEWABLES STRATEGY

>> 200 MWp

Renewable Energy

Renewable sourced electricity production (solar PV, wind mills)
MT VERNON COGENERATION PLANT

RESOURCE AND ENERGY EFFICIENCY

✓ Resource and carbon efficiency
✓ Lower bottom-line operating costs

Sustainability KPI's impacted: GHG, Energy, Material Effectiveness

Mt Vernon Cogen Design & Performance:

➢ Generation of 80-100 MWe of electricity for internal consumption
➢ Average 360 t/h Steam production

Cogen Project Benefits:

✓ Reduction of 460,000 tons CO2e
✓ 43% reduction in site Non-Hazardous Waste to landfill
✓ 12% reduction in utility costs
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