SABIC’S INNOVATIVE SOLUTIONS FOR RENEWABLE ENERGY & RESOURCES

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Corporate Research and Development
SABIC AT-A-GLANCE

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

- Total assets: $86 billion**
- Net income: $4.9 billion**
- Annual revenue: $39.9 billion**
- New products each year: ≈ 150
- Global patent filings: 11,534
- World-class plants worldwide: 64

*Forbes 2018  **Billion
OUR BUSINESSES

**BUSINESS PORTFOLIO**

**PETROCHEMICALS**
- Polyolefins
- PVC, Polyester and Polystyrene
- Synthetic Rubbers
- Specialty Polymers & Polymer Additives
- 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
### A GLOBAL INDUSTRY LEADER

We are global leaders in the production of:

<table>
<thead>
<tr>
<th>Specialty Compounding</th>
<th>Polycarbonate</th>
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</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>Polyether Imide</td>
</tr>
<tr>
<td>Mono-ethylene Glycol</td>
<td>Polyethylene</td>
</tr>
<tr>
<td>Methyl Tertiary Butyl Ether</td>
<td>Polyphenylene Ether</td>
</tr>
<tr>
<td>Polybutylene Terephthalate</td>
<td>Polypropylene</td>
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<td>Ethylene</td>
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<td>Polypropylene</td>
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Classification: General Business Use
INTRODUCTION

• Developing renewable energy industries in KSA is not an option but a requirement to fulfill the global business and sustainability goals.

• SABIC has been one of global enablers of solar energy by supplying SABIC energy materials to customers in all around the world.

• SABIC is currently a key player in renewables by implementing energy-efficient processes and using non-conventional feedstock in chemical plants.
SABIC RENEWABLES VALUE CHAIN

Renewable Energy Supply
- Production Parks

Renewable Energy Use
- Energy Use in Chemical Plants

Addressing and Leveraging Saudi Vision 2030

Supporting Local Content

Exploring Business Opportunities
SABIC MATERIALS FOR SOLAR PV SYSTEMS

Solar PV junction boxes

NORYL™ resin

Solar PV mounting system

NORYL™ resin

Solar PV connectors

NEXAN™ EXL resin
SABIC INTEGRATED ROOF SOLUTION (IN DEVELOPMENT)

- Fully Integrated Structural Roof Component meeting market needs (roof mounting speed, system costs)
- Breakthrough three times lighter solution for roof construction
- In Europe, buildings are responsible for 40% of energy consumption and over a third of CO₂ emissions
- 30% reduction of CO₂ emissions compared to the current roof constructions.
SABIC INTEGRATED ROOF SOLUTION

SABIC polycarbonate resin

SABIC polyolefin resin

SABIC flame retardant (FR) polyolefin resin

SABIC polyolefin FR foam

SABIC FR polyolefin resin

SABIC’S solution: ~20 kg/m² compared to > 65 kg/m² on a standard roof
RENEWABLE FEEDSTOCK

1st petrochemicals company to offer polyethylene (PE) and polypropylene (PP) based on renewable feedstock sources

CRUDE OIL / NAPHTHA

By replacing part of the fossil based feedstock used in our processes by renewable feedstock.

PRODUCTION

By using our existing processes to produce identical products as in our existing portfolio.

POLYMERS

By using independent mass balance certification for the processing of renewable feedstock and allocation to specific products.

CONVERTOR

END PRODUCT