WHAT ARE PETROCHEMICALS?

Petrochemicals are chemicals obtained either directly from cracking (pyrolysis), or indirectly from the chemical processing of oil or natural gas. Major petrochemicals include acetylene, benzene, ethane, methane, propane, and hydrogen, from which hundreds of other chemicals are derived.

In the U.S., petrochemicals are derived primarily from oil and natural gas. Although they can also be derived from coal, biomass, and other organic feedstocks. Natural gas liquids (NGLs), such as ethane and propane, are key feedstocks for the petrochemical industry in the United States. Over the past decade, the shale gas revolution has produced abundant, affordable natural gas and NGLs. This abundance and affordability is leading to an American petrochemical and manufacturing renaissance.

Petrochemicals are the feedstock for many items that we use each and every day. They are used to manufacture phones, clothing, bedding, food casing, credit cards, bags, soaps and detergents, antifreeze, IV and blood bags, adhesives, appliances, batteries, insulation, paint, furniture, rubber, fibers, plasticizers, and as feedstock for the production of thousands of other products.

Rebuilding the petrochemical industry in the Appalachian area could lead to:

- With the addition of the Marcellus and Utica shale plays, Appalachia now produces more than 32% of U.S. natural gas, and 600,000 bbls per day of NGLs. This creates an opportunity for a renaissance of the Appalachian petrochemical industry.
- Critical to this renaissance is NGL transport and storage, as well as petrochemical infrastructure.

WHERE DO PETROCHEMICALS COME FROM?

- OIL
- COAL
- PETROCHEMICALS
- OTHER
- ORGANIC FEEDSTOCKS

WHERE ARE THEY PRODUCED?

- OIL
- COAL
- PETROCHEMICALS
- OTHER
- ORGANIC FEEDSTOCKS

WHAT ARE THE BENEFITS OF AN APPALACHIAN PETROCHEMICAL RENAISSANCE?

- 32% of U.S. natural gas
- 600,000 bbls per day of NGLs
- $36 billion in capital investment
- 101,000 new, steady jobs
- $2.9 billion on tax revenues annually
- $28 billion in economic expansion
- $29 billion on the revenues annually

WHAT IS THE APPALACHIAN PETROCHEMICAL RENAISSANCE?

Petrochemical production in Appalachia would provide diversity and reliability to the U.S. petrochemical manufacturing base and add to U.S. energy security.

WHERE DO PETROCHEMICALS MAKE FOR US?

American manufacturing relies on a steady source of raw materials to produce products such as plastics, paper, solvents, and automobiles. This is one reason why America is a $528 billion enterprise (American Chemistry Council, 2019). It:

- SUPPORTS 25% of U.S. GDP
- PROVIDES 12% of the world's chemicals
- SUPPORTS 529,000 American jobs

WHAT DO PETROCHEMICALS RENEW?

Petrochemicals are the foundation for many items we use each and every day. They are used to manufacture phones, clothing, bedding, food casing, credit cards, bags, soaps and detergents, antifreeze, IV and blood bags, adhesives, appliances, batteries, insulation, paint, furniture, rubber, fibers, plasticizers, and as feedstock for the production of thousands of other products.

THE APPALACHIAN PETROCHEMICAL RENAISSANCE

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