



SHELL PETROCHEMICALS COMPLEX

BRINGING NEW GROWTH TO THE REGION

6,000 construction workers will be involved in building Shell's modern, state of the art petrochemicals facility, which will house approximately 600 permanent employees when completed.



In June 2016, Shell announced its decision to build a modern, state of the art petrochemicals facility, comprising an ethylene cracker with polyethylene derivatives unit right here in Beaver County.

The complex will use low-cost ethane from shale gas producers in the Marcellus and Utica basins to produce 1.6 million metric tons of polyethylene per year. Polyethylene is used in many products, from food packaging and containers to automotive components.

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Monaca, PA 15061



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ACTIVITY ON SITE

Preparation of the site is under way and has progressed very well. We have already completed:

- Removal of pre-existing foundations and associated environmental remediation work. This included the movement of 7.2 million cubic yards of earthen fill.
- Installation of 4200 steel pilings for the foundations of several permanent structures.
- Finished the relocation of a new and widened SR 18 and improvements to interchanges at I-376. The improvements will benefit motorists in the area and help accommodate trucks working on the main construction phase. The relocation of the existing state highway won the Quality in Construction and Operational Excellence Award from the National Asphalt Pavement Association.
- Completed two large river docks to receive equipment during construction. This will allow for large items of equipment to arrive by barge, helping to reduce road traffic.
- Relocation of high-voltage electric lines that cross the site and the construction of new electrical infrastructure that will serve both the site and the region.
- Transportation of material to build a ramp and haul bridge over existing SR 18 to minimize trucks on the road; and subsequent transportation of material over the haul bridge to start leveling the site.
- The latest site work has been the laying of concrete to complete the foundations, which started in March.

Main Construction of the facility will begin later this year.

- Commercial production is expected to begin early in the next decade as the anticipated demand continues to grow.

Protecting the environment is a top priority:

We believe taking an environmentally responsible approach is the right thing to do. We plan to use energy and water efficiently, redevelop an existing industrial site, manage emissions, prevent spills, minimize waste, recycle materials and protect water quality.

Fulfilling ACT 2 Agreement with the State:

Most of our environmental work has been done as part of our voluntary Act 2 remediation of the site in accordance with State law. Shell is investing a total of \$80 million in environmental actions to fulfill its Act 2 remediation requirements.

Much of Shell's Act 2 work relates to capping the site's former industrial footprint. Specifically, this has involved capping contaminated earth – caused by decades of heavy metal processing at the former zinc and lead processing facility – with earth fill from nearby non-impacted locations.

Balancing Water Use:

The facility will recycle and reuse water in its processes, drawing approximately 20 million gallons per day from the Ohio River. This represents a 73% reduction of water use from what was used at the site by the previous operator. From the water pulled from the Ohio, approximately 80% of it will evaporate as clean steam; the rest will be treated as necessary to remove impurities and tested to ensure it meets water quality standards before being returned to the river.

Addressing Air Quality:

The facility will use technologies recently approved by the state and federal environmental agencies to provide the greatest energy efficiency and lowest emissions. Other environmental measures include recycling cleaner burning and high efficiency "tail gas," building an ethylene storage unit and other measures to reduce impact on the environment.

If you would like to indicate your support, or learn more about our air quality or water quality plans, please use the detachable response card below to contact us. As your new neighbor, we value your input.

"Yes! Count me as a supporter of Shell's new Petrochemical Complex. Please keep me informed about the project."

Name: _____

Address: _____

E-mail address: _____

Preferred method of contact: _____

Would you like a more detailed brochure outlining our air quality and water quality plans: **Yes**

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