Energy is Everything.

In virtually every human activity and invention, energy plays an important role: powering, building and improving the quality of everyday life.

The U.S. Open tennis tournament in the Big Apple helps illustrate this point. Products and materials made from natural gas and oil make today’s tennis fast, powerful and exciting. From the lightning-quick asphalt playing surface to the modern materials that go into the rackets, tennis has come a long way, baby — thanks to 21st-century energy.

QUICK FACTS:

- The U.S. Open began as a men’s tournament in 1881 in Newport, R.I. It was relocated to Forest Hills, N.Y., in 1915. The tournament moved to its present location in Queens in 1978.
- The Open has been played on three surfaces: grass, clay and today’s hard court (asphalt subbase).
- The Open features total prize money of $50.4 million in 2017.
- Jimmy Connors, Pete Sampras and Roger Federer hold the record for most men’s singles titles won in the “Open Era”: 5. On the women’s side, Chris Evert and Serena Williams lead with 6 each.

**SERVICE ACE!**

**RACKET FRAME:**
Graphite, carbon fibers and composites — all made of materials derived from petroleum.

**TENNIS SHOES:**
Synthetic rubber, carbon fiber and Kevlar.

**BALL:**
Natural and synthetic rubber, which is made from petroleum, covered in a felt blend of natural wool and nylon, a polymer derived from oil.

**STRINGs:**
Polyester or nylon, both made from petroleum.

**COURT:**
Acrylic, a thermoplastic, and a subbase of asphalt — both made from refined crude oil. Layers of synthetic rubber, made from petrochemicals butadiene and styrene, provide cushioning.

**ENERGY IS... NEW YORK**

**POWER PAST IMPOSSIBLE.ORG**

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**NEW YORK ENERGY CONSUMPTION ESTIMATES 2015**

- Coal
- Natural Gas
- Motor Gasoline excl. Ethanol
- Distillate Fuel Oil
- Jet Fuel
- LPG
- Residual Fuel
- Other Petroleum
- Nuclear Electric Power
- Hydroelectric Power
- Biomass
- Other Renewables
- Net Interstate Flow of Electricity

**NEW YORK ENERGY PRODUCTION ESTIMATES 2015**

- Coal
- Natural Gas - Marketed
- Crude Oil
- Nuclear Electric Power
- Biofuels
- Other Renewable Energy

**NEW YORK NET ELECTRICITY GENERATION BY SOURCE 2016**

- Coal
- Natural Gas
- Nuclear
- Hydroelectric
- Wind
- Biomass
- Solar

**INFRASTRUCTURE**

Christopher Stockton
The Williams Co.

"New York is fourth in the nation for natural gas use. There has been tremendous support for this [pipeline] project. New York's Southern Tier needs this opportunity."

**CLIMATE OR METHANE**

Robert Bryce
Manhattan Institute

“When it comes to global carbon-dioxide emissions, America isn’t the problem. Instead, the U.S. — thanks to the tsunami of cheap natural gas now available by way of the shale revolution — is part of the solution.”