

# OIL AND GAS PRODUCTION FUELS MEDICAL CARE



OIL AND GAS DRILLING/PRODUCTION VIA PIPELINE TO REFINERIES (FUEL AND BY-PRODUCTS, INCLUDING PLASTICS & POLYMERS)  
RESULTING IN:

## MEDICAL SUPPLIES AND EQUIPMENT

### These glass products include:

- Medicine Vials
- Microscope Slides
- Laboratory glassware
- Laboratory storage containers
- Laboratory Flasks
- Laboratory Beakers



### Electric Uses in Hospitals

- 63% of electricity nationwide used in hospitals, production facilities, cooling and sterile air handling, as well as, ventilators defibrillators, and by-pass machines

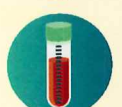
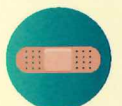


The bulk of energy consumed in glass manufacturing for medical uses comes from natural gas combustion used to heat furnaces to melt raw materials to form glass.

### Hydrocarbons are necessary in refrigeration

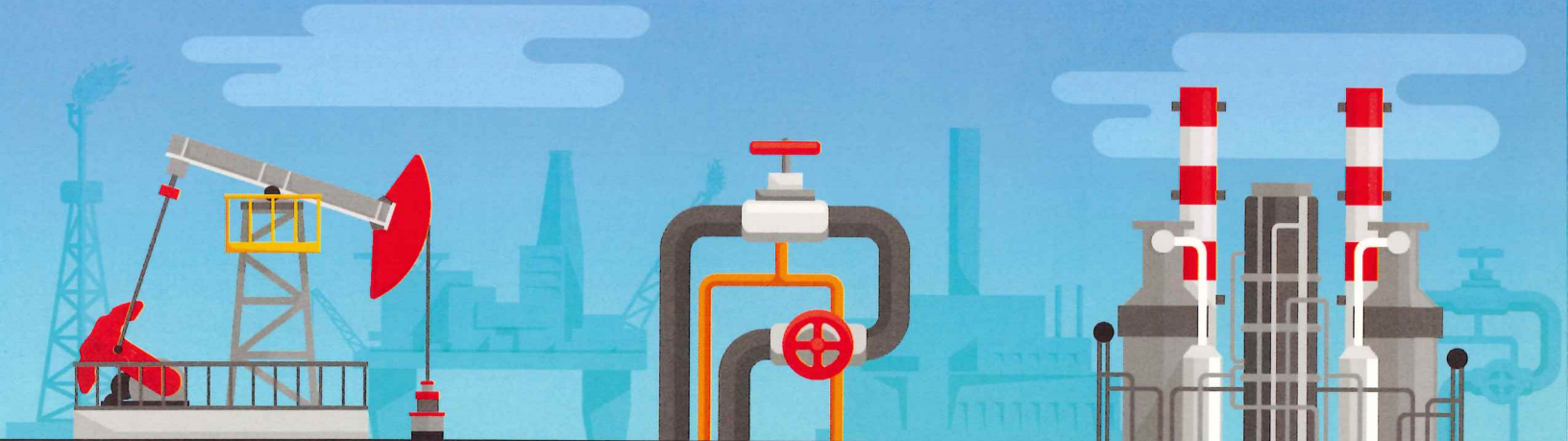
- The coronavirus vaccines being developed are required to be refrigerated at various temperatures ranging from minus 70 degrees Celsius to minus 20 degrees Celsius
- Typical refrigerators are made out of several different types of plastic and hydrocarbons are also used as refrigerants in the cooling system
- Hydrocarbons Also Needed for Transporting the Vaccine and other Medical Supplies
- Vaccines, medical equipment, and personnel must be distributed to hospitals, clinics and doctors offices via the use of transportation fuels of which 95% is either gasoline, diesel, or jet fuel

- Syringes
- Surgical Instruments
- Test Tubes
- Petri Dishes
- Dialysis Filters
- Housing for Test Kits
- Elastic Bandages
- Tape Adhesives
- IV Bags
- IV Tubing
- Single Use Medical Tubing
- Blood Bags
- Masks
- Gowns
- Goggles
- Cleanroom Suit
- Blood Pressure Cuffs
- Sterilization of Medical Devices and Bandages
- Hydrocarbons used in Glass Making Vaccine Vials and Other Medical Uses





# OIL AND GAS PRODUCTION FUELS AGRICULTURE



## OIL AND GAS DRILLING/PRODUCTION VIA PIPELINE TO REFINERIES RESULTING IN: AGRICULTURAL GROWTH AND SUSTAINABILITY

**Tractors and Farm Equipment** rely on petrochemicals for the manufacture of heavy farm equipment, fuel for operations, and lubricants and other ancillary products to maintain them, needed to plant and harvest crops.

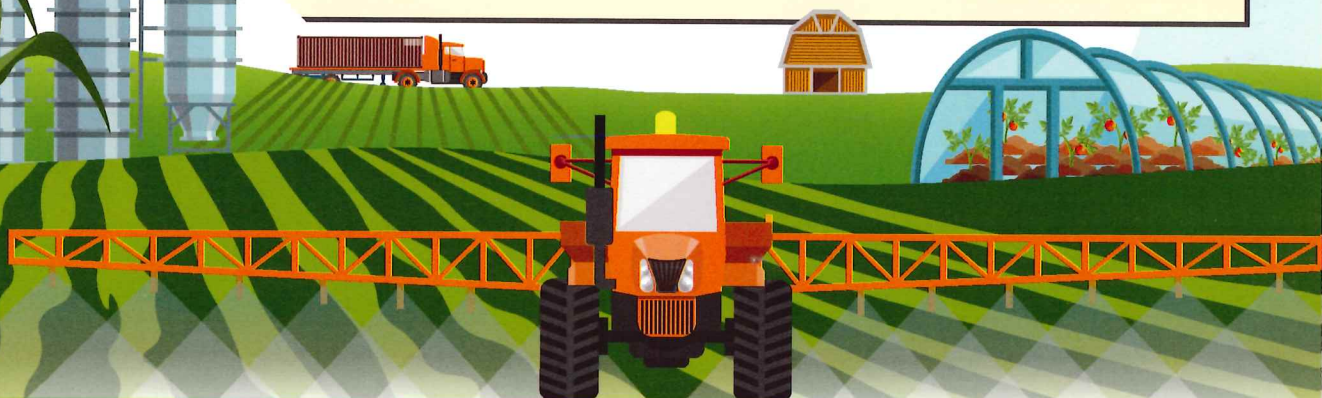
**Fertilizers and Pesticides** are necessary for the large scale production of food and fiber needed by our growing population and utilize petrochemical products for their manufacture and distribution.

**Irrigation** petrochemicals are needed to power pumps and piping needed to irrigate crops and livestock.

**Processing and Packaging** electricity and power needed to run plants for meat processing, cotton gins, grain silos, mills, and the plastic and styrene used for packaging food products.

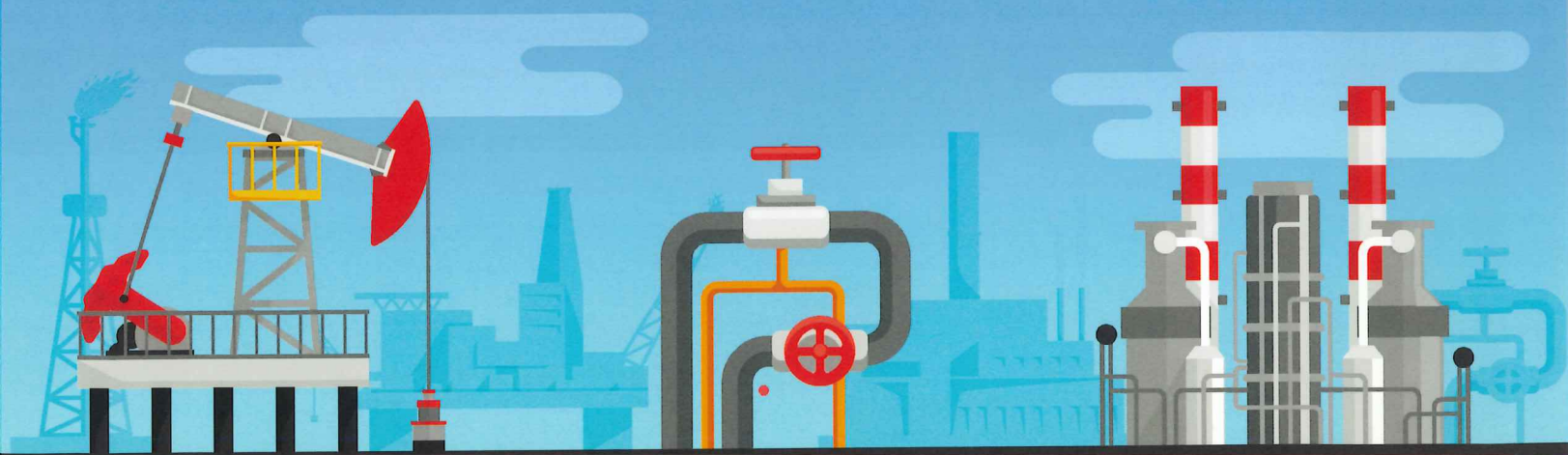
**Transportation** provides the fuel for shipping products from farms and ranches to local supermarkets for local consumption.

**Greenhouses** provide high yield food supplies but also require electricity generated by natural gas, CO2 supplements, and natural gas for heating to produce greenhouse foods and products.





# OIL AND GAS PRODUCTION TO CELL PHONE PRODUCTION



## OIL AND GAS PRODUCTS GENERATE POWER FOR PRODUCING CELL PHONE PARTS AND TRANSMISSION

Cell Phone Towers that built from steel, plastic and copper wires are all produced or fueled by oil and gas.

Natural Gas and Oil Power is needed for mining and industrial processes to generate other materials like aluminum, iron, and rare-earth materials that go into the making of a smartphone.

### Cell Phone Parts and Components Made From Oil and Gas Products

- Circuit Boards
- Liquid Crystal Display
- Lithium Batteries
- Micro Chip Coating
- Electrical Insulators
- Electrical Components and Adhesives
- Styrene Packaging
- Wiring and Wiring Insulators
- Polycarbonate Body Construction
- Polycarbonate Casings
- Casing for Semiconductors/ Epoxy Resin

MIDLAND - ODESSA  
**MOTRAN**  
TRANSPORTATION ALLIANCE, INC.



# OIL AND GAS PRODUCTION FUELS OUR HOMES



## OIL AND GAS DRILLING/PRODUCTION VIA PIPELINE TO REFINERIES RESULTING IN: **EVERYDAY PRODUCTS THAT MAKE UP OUR HOMES**

Our homes rely on petrochemicals in so many ways. From the products in our homes to the daily running of our homes. Petrochemicals provide the electricity and power needed to run virtually everything we do on a daily basis.

Below are just a few:

