

# LIQUIDS ENERGY PIPELINE SAFETY

## PIPELINE SAFETY PERFORMANCE OVER THE LAST 5 YEARS

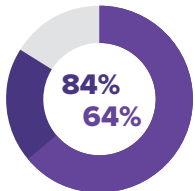


**99.999%**  
**SAFETY RECORD**

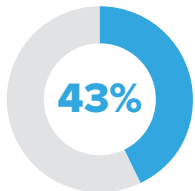
99.999% of crude oil and petroleum products delivered by pipeline reach their destination safely



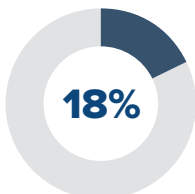
Americans consumed **135 billion gallons of gasoline** in 2021. Only pipelines are large enough to deliver all that energy across America.



In 2021, **64%** of pipeline incidents were less than 5 barrels and **84%** were less than 50 barrels



Fewer than half (**43%**) of pipeline incidents occurred in high consequence areas in 2021



In 2021, only **18%** of pipeline incidents impacted **people or the environment**



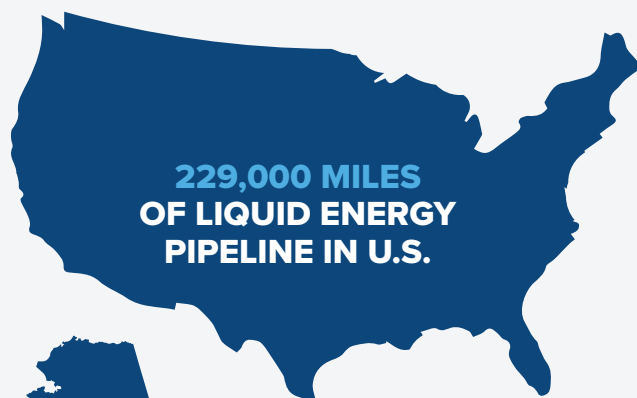
Total liquids pipeline incidents are **down 17%** over the last 5 years

Pipeline incidents impacting people or the environment are **down 31%** over the last 5 years

Pipeline incidents impacting people or the environment caused by corrosion, cracking or weld failures are **down 32%** over the last 5 years

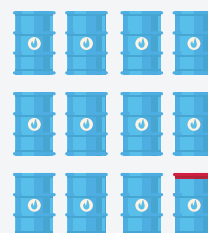


Each year, the U.S. Government collects and posts online pipeline incident data. The data reflecting 2017 to 2021 is the source for this infographic.



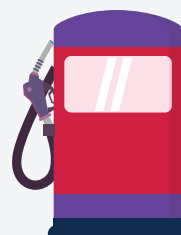
**229,000 MILES OF LIQUID ENERGY PIPELINE IN U.S.**

**229,454 miles of pipe** crisscrossed America in 2020, delivering U.S. produced energy to American consumers.

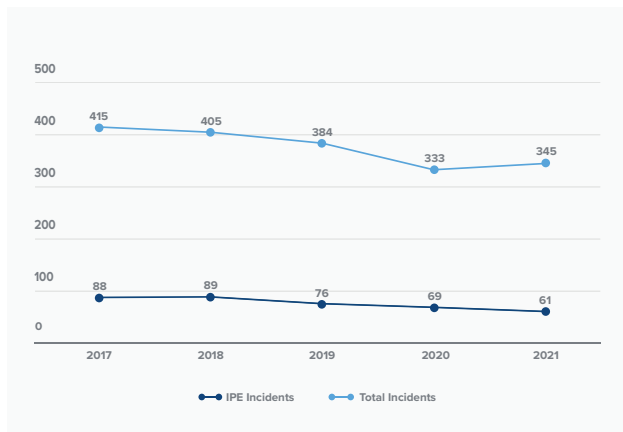


**11.9 BILLION BARRELS** of crude oil delivered in 2020, a 1.1 billion barrel or 11% increase from 2015

2020 is the most recent year for which barrels delivered data is available.

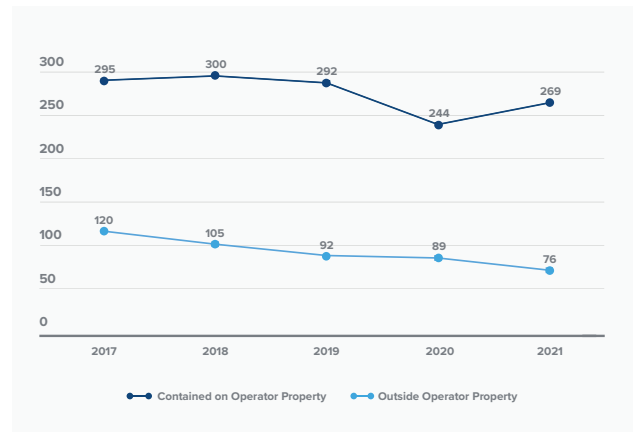


**8.5 BILLION BARRELS** of petroleum products like gasoline, diesel, jet fuel and propane delivered by pipeline in 2020



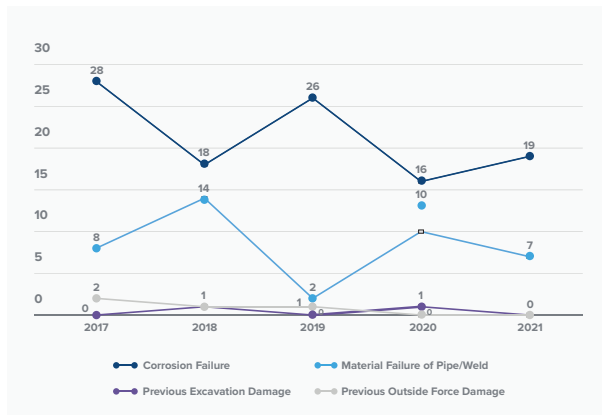
## TOTAL INCIDENTS VS INCIDENTS IMPACTING PEOPLE OR THE ENVIRONMENT

Pipeline incidents impacting people or the environment decreased 31 percent over the last 5 years. Total pipeline incidents were down as well, dropping 17 percent over 5 years with 70 fewer incidents in 2021 compared to 2017.



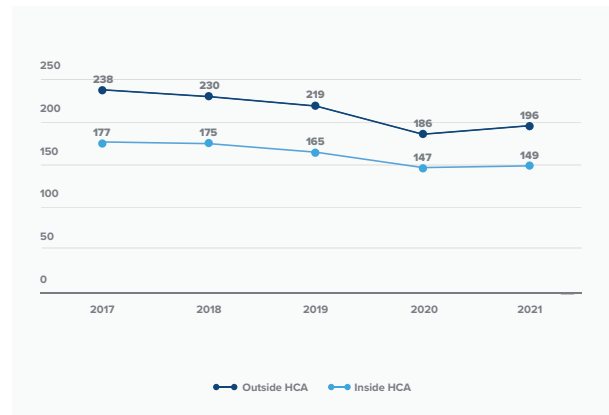
## PIPELINE INCIDENTS INSIDE AND OUTSIDE OPERATOR PROPERTY

In 2021, 78 percent of incidents from liquids pipelines were contained within an operator's property. Examples of pipeline operator properties include pump stations, tank farms, and terminals. Incidents in public spaces outside of operator facilities decreased 37 percent from 2017 to 2021.



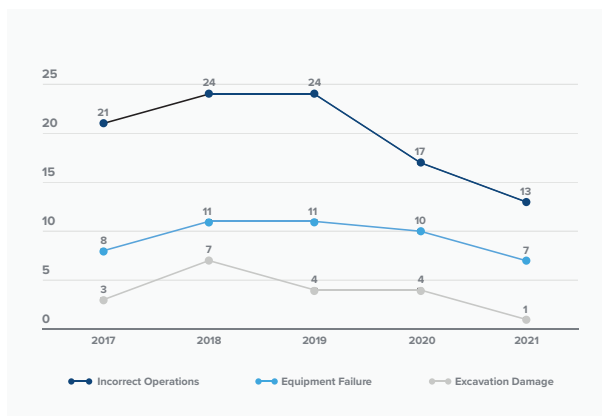
## INTEGRITY MANAGEMENT INCIDENTS IMPACTING PEOPLE OR THE ENVIRONMENT

Incidents related to the pipeline itself, such as corrosion, cracking, or weld failure, were down 32 percent over the last 5 years in areas impacting people or the environment. In these areas, corrosion failures are also down 32 percent from 2017 to 2021.



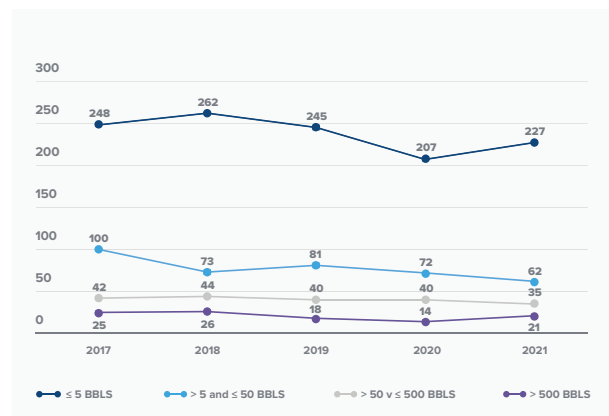
## PIPELINE INCIDENTS INSIDE & OUTSIDE HCAS

Liquids pipeline incidents occurring in high consequence areas (HCAs) declined 16 percent over the last 5 years. Through federal regulation, PHMSA defines HCAs as areas of population concentration, commercially navigable waterways, or sensitive environmental locations. Fewer than half (43 percent) of pipeline incidents occurred in HCAs in 2021.



## OPERATIONS & MAINTENANCE INCIDENTS IMPACTING PEOPLE OR THE ENVIRONMENT

Incidents related to maintaining pipeline equipment or operating the pipeline and its valves or pumps were down 34 percent over the last 5 years in areas impacting people or the environment. In these areas, incidents caused by incorrect operations decreased by 38 percent while equipment failure decreased 13 percent from 2017 to 2021.



## LIQUIDS PIPELINE INCIDENTS BY SIZE

Most pipeline incidents are small in size. In 2021, 66 percent of incidents were less than 5 barrels and 84 percent were less than 50 barrels. Large pipeline incidents are also the rarest. In 2021, only 6 percent of incidents were 500 barrels or larger and these large incidents are down 16 percent over the last 5 years.