

SAFE, RESPONSIBLE NATURAL GAS DEVELOPMENT & USE

Backed by independent research on air, water, and safety

Study after study confirms Pennsylvania natural gas development meets high standards for safety, environmental protection, and public health.

SAFE FOR WORKERS AND COMMUNITIES

0-5 pCi/L

No Radiation Risk

Landfill leachate radiation poses no risk to human health and remains at background levels, with no link to oil and gas waste.

(PA DEP)

\$450B - \$1.04T

in Health Benefits

Cleaner air from natural gas use has delivered massive public health gains in Pennsylvania.

(MSC)

0.05%

Methane Intensity

The Appalachian Basin maintains the lowest methane emission rate among all major hydrocarbon producing basins in the United States

(MSC)



No Measurable Health Impacts

Monitoring across dozens of well sites over multiple years found no acute or chronic health effects under normal operations. (GRADIENT)



No Risk to Drinking Water

Elevated methane levels in groundwater were linked to naturally occurring thermogenic and biogenic sources - not to stray gas from natural gas development. (USGS)



PennState.

“The most interesting thing we discovered was the groundwater chemistry in one of the areas most heavily developed for shale gas – an area with 1400 new gas wells – does not appear to be getting worse with time, and may even be getting better.”

(PENN STATE UNIVERSITY)

NATURAL GAS USE IS DRIVING CLEANER AIR

NOx ↓ 93%
(vs. 2005)

SOx ↓ 98%
(vs. 2005)

CO2 ↓ 46%
(vs. 2005)

Equal to taking **12.5 million** cars off the road annually

(MSC)