Curbing Methane Pollution & Waste: New Mexico's Problem and Opportunity

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U.S. OIL & GAS METHANE POLLUTION

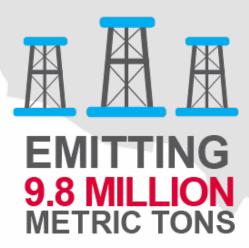
How much is leaking?

OIL & GAS
THE LARGEST
SOURCE OF
METHANE
POLLUTION
IN THE U.S.





7 MILLION HOMES



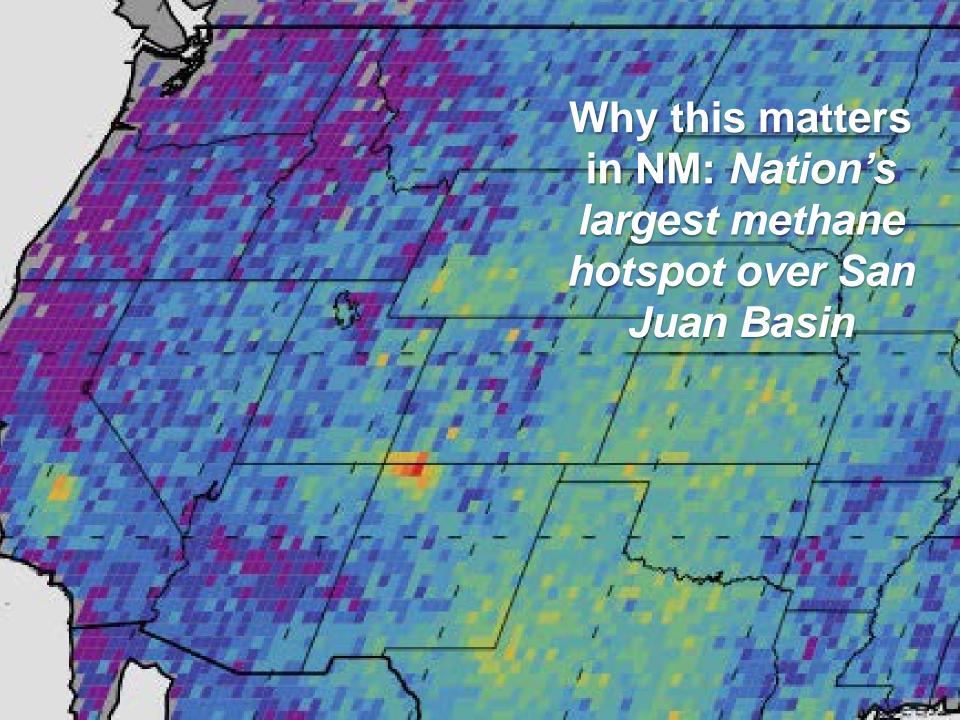
THE SAME 20-YEAR CLIMATE IMPACT AS:



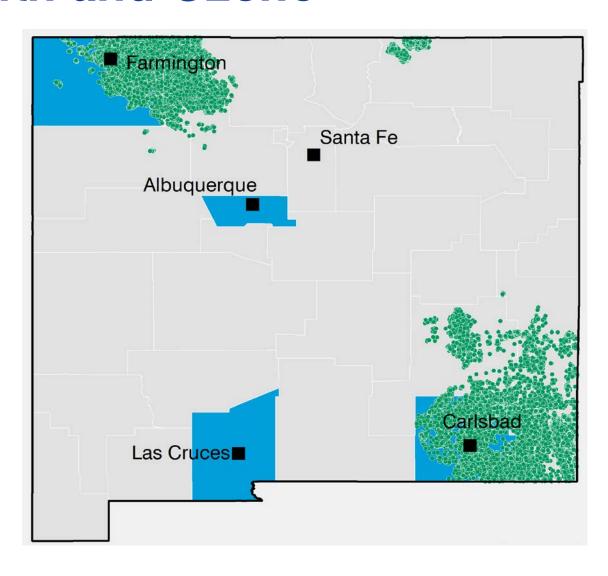


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COAL-FIRED POWER PLANTS



Why this matters in NM: *Public* health and Ozone





EDF's Methane Research



Science

16 peer-reviewed studies analyze data collected through multiple methods to measure oil and gas supply chain emissions



Collaboration

More than 100 academic and industry partners



Results

Multiple studies find emissions are higher than official estimates



Lessons Learned



Higher Emissions

As a whole, oil & gas methane emissions are higher than conventional estimates suggest.



Super Emitters

Recurring Problem that needs to be addressed



Regulations Work

Reducing emissions through regulations is straightforward & narrows ranges of company performance

Lessons Learned: Regulations Work

Level Playing Field

Regulations narrows range of company performance

Data Driven Solutions

"Green completions" help reduce 99% of emissions from completion flowbacks

Researchers find lower emissions at processing plants, which have stronger regulations including LDAR.

Reducing Fugitives

Improved design & maintenance practices may reduce the occurrence of unintentional emissions

Leak Detection and Repair

Frequent LDAR needed to quickly identify and mitigate super-emitters



Drilling & Production



Gathering & Processing



Transmission & Storage

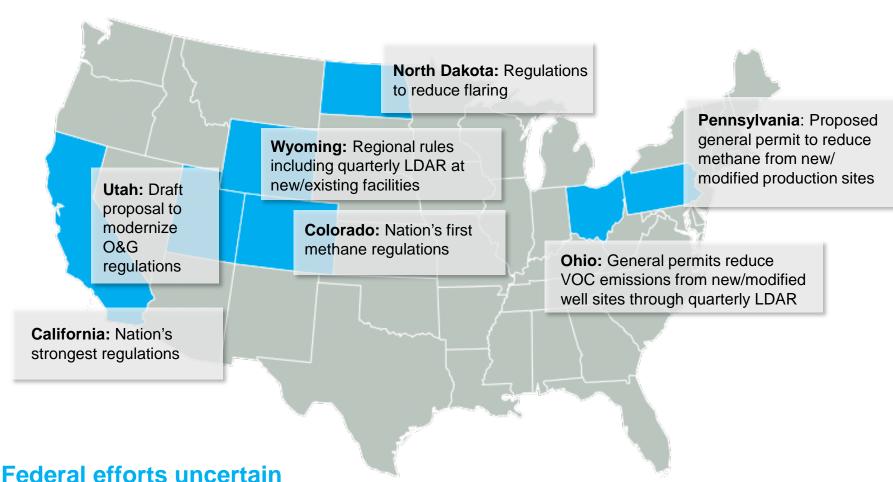


Local Distribution



Regional Research

State emission reduction efforts



- rederal efforts uncertain
- EPA regulations on methane from new/modified facilities
- BLM regulations at new/existing sources on public/tribal lands

Bloomberg

"Big Oil Moves on Its Own to Cut Methane Pollution" Sept. 27, 2017



"Statoil field testing methane leak detection Equipment developed in San Antonio" April 4, 2014

The New York Times

"Exxon Aims to Cut Methane Leaks, a Culprit in Global Warming" Sept. 25, 2017



"Exxon Mobile moves to reduce methane from oil and gas operations" Sept. 25, 2014



"Shell launches methane detector pilot at Alberta Shale Gas Site" Aug. 9, 2017