Biogas versus Natural Gas
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Problem Statement
A major issue that faces the world’s clean water is the chemical runoff and waste water from hydraulic fracturing. An economical and ecological solution would be to use biogas to replace our energy needs facilitated by natural gas extracted through hydrofracturing.

Our solution entails taking a holistic approach but places particular emphasis on the use of biogas as an alternative for natural gas acquired through hydrofracturing.

Mechanism for Implementation

Proposal

Background
• Fossil Fuel extraction is one of the biggest wasters of water
• For gas wells, the waste water (barrels: cubic feet) was 260: 1 million cubic feet.
• In 2007, the daily output of the U.S. gas industry was 66 billion ft³: 58 million barrels of waste water

Survey Results
42% don't know about biogas
Only 1% don't know about natural gas

Assessment Plans
Getting Responses!
100 survey responses
65% response from contacted organizations/companies

Promotional Plans
Survey: 10 questions; target pop(undergrads & 30+ w/ families)
Contacting People via phone/email; describing background; distribute report

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Methodology
Research on natural gas & biogas.
Comparing them economically, politically & ecologically
Resorting to the public to make change and create a demand. Measure awareness before spreading it.
Two Target Populations: undergrads & older generation (30+ w/ families).
Emphasis on one part of the solution. Phasing out natural gas with biogas
Drafting an analysis & sending report to organizations.

Summary
Fossil Fuels will continue to dominate energy market seeing as they receive more subsidies and tax breaks. Biogas could be the next big energy source if awareness is raised and people are educated about the benefits. Our plan of biogas from waste water has already been implemented around the country.

References


Biogas can be created from Landfills, Municipal Waste Water, and Agricultural Waste
Biogas production from municipal waste water cleans the water while creating a viable energy source, addressing two problems at once
Biogas from Waste Water has been successfully implemented at 485 plants around the nation