PRODUCED WATER RECYCLING APPROACH ATTRACTS INTERNATIONAL ATTENTION

NETL-funded research on recycling hydraulic fracturing water received a "highly commended" recognition in a global competition.



Geologic homogenization, conditioning and reuse (GHCR).

When hydrocarbons are recovered from oil and gas formations through hydraulic fracturing, significant quantities of high-salinity water are often co-produced. This water is generally referred to as "produced water."

• Produced water management is a key focal point in environmental, social and governance initiatives.



- In the studied approach, produced water is reinjected into the subsurface.
- Natural filtration and biogenic activity of geological strata removes contaminants.
- The produced water can then be reused in hydraulic fracturing, reducing demand for freshwater.



NETL ANNUAL ACCOMPLISHMENTS 2023



Fossil Energy and Carbon Management

