CLLEEN Water and Power™

CLLEEN VAP™

Brine Crystallization Frac Solution

How to Reduce Brine Disposal Costs

- Crystallize the brine instead of storing and/or disposing of it in its liquid state
- Eliminate deep-well injection of brine as disposal
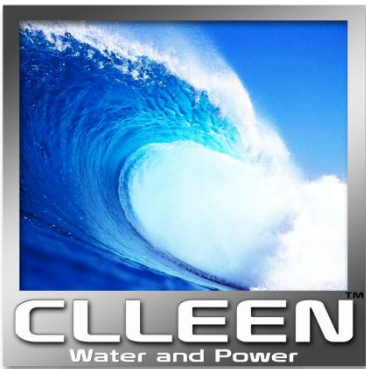- Reduce trucking costs

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OR   *Your Authorised CLLEEN™ Water and Power Reseller*

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What is the CLLEEN VAP ™ process?

1. CLLEEN VAP™

• Use of CLLEEN™ Multi Stage Flash system with atmospheric vapor release to:
  ✓ treat brine directly from the pit/pond/lagoon
  ✓ and produce crystallized salt

• Deep well injection or diffusion or other discharge of **brine** is unnecessary

2. Dry Salt Product

• For sale
• Or Recycle
• Or Landfill disposal

The most cost-effective, environmentally friendly & community friendly Zero Liquid Discharge (ZLD)
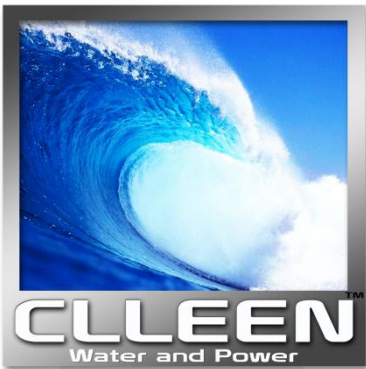
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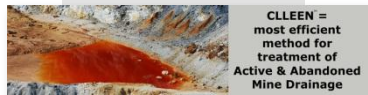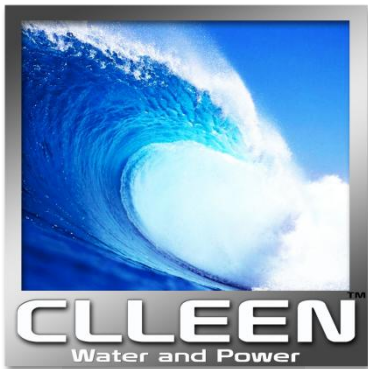
What CLLEEN™ provides:

Simple, environmentally-friendly, on-site evaporation of pit/pond/lagoon flowback and produced water that:

- Is cheaper than brine injection disposal

- Eliminates brine injection and trucking costs to injection wells

- Qualifies for a PA DEP air quality permit exemption, which means the customer needs no additional permitting for it to be on-site

- Can treat 5,700 barrels/day of flowback or produced water, operating 20 out of every 24 hours

- Provides Labor and logistics for operation

- Provides Remote (via satellite signal) monitoring of operation

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CLLEEN
Water and Power

CLLEEN provides water desalination solutions for cities

Cost savings in
*set up
*production
*maintenance
*management
*labour
for industrial waste water management

CLLEEN™ Water Treatment System for Frac Water

CLLEEN = most efficient method for treatment of Active & Abandoned Mine Drainage

CLLEEN's Guarantee
To work as stated or your money back*

Humanitarian Aid/ Disaster Relief...
CLLEEN requires NO outside power source

CLLEEN's smaller skids for
*military
*cruise ship
water desalination

Oil, Gas, Minesite Operations
CLLEEN is your drinking water solution

What the customer provides:

•Hydrogen peroxide (or similar sufficient treatment) to drop solids out of the water into the pit

•Shipping/transportation costs to the site.

•480V/60Hz/3 phase AC power to the CLLEEN VAP™ system

•Pumping (with a 1000micron screen – 18"mesh or higher) from the pit/pond/lagoon to the CLLEEN VAP™ crystallizer.

•Dry salts disposal to a landfill.

•48 hours allowance for set up to begin, and 48 hours for breakdown, when complete

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