











CLLEEN[™]Water and Power[™] CLLEEN[™]MOBILE VAP[™]

- Produced Water
- Landfill Leachate
- Sewage
- Other Wastewater Treatment Units















CLLEEN[™]MOBILE VAP LE solves your low-TDS wastewater disposal problem.

The CLLEEN™MOBILE VAP LE Crystallizer (evaporator) is:

- Trailer-mounted
- Built in modules of 25 GPM each
- Can treat any flowrate at the TDS levels of the leachate
- Will do so using less than 2.5 kWh/m3
- Is 1/30th the energy usage of any comparable industrial evaporator

CLLEEN[™]MOBILE VAP LE is similar to the treatment used by existing CLLEEN[™]MOBILE VAP customers in the oil and gas exploration and production fields.

- It evaporates produced waters of hydraulic fracturing operations
- Works well for landfill leachate
- Is effective for other lower TDS wastewaters















What the Customer provides

- Pumping (with an 18-mesh screen or higher to limit TSS diameters to under 1mm) from the leachate source to our skid-mounted brine pump on the CLLEEN™MOBILE VAP LE unit.
- 2. Secondary containment to capture the dry salts from the evaporation chamber discharge.
- 3. 65A@240V/1ph power for every 25 gallons per minute chamber



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How Do I Get One?

- Deposit of \$250,000 USD per 25-gpm chamber.
- Units are trailerized, to a maximum of 4 x 25 gpm chambers on an enclosed 30-ft gooseneck trailer.
- Towed by a pickup truck; or delivered on a self-contained metal skid to your specifications.
- Deposit is refunded after 8 months of operation, OR applied to the manufacture and delivery of your next order.
- US\$3/barrel of water treated (in most locations in the US and Canada)
- Includes full warranty
- Includes 24/7 monitoring via our SCADA software and cellular signal.
- 45-day lead time for manufacture, delivery, installation and training at your site.

















A CLLEEN[™]MOBILE VAP LE 27-foot trailer evaporates 100 gallons per minute of leachate down to dry salts for safe, economical and environmentally friendly re-wasting on the landfill.













Management Bio

Anthony Migyanka, Founder, CEO and Inventor of the CLLEEN[™]VAP technology.

Published Technical Papers:

- *"What to do with the Brine?"* Frac Water Treatment, Knovel Publishing, March 2012
- Featured article, *"Chemical Engineering*" Magazine, on the CLLEEN™ system, April 2012

Speaking Invitations:

- Shale Gas Water Management Initiative, Dallas, Texas, November 2011
- OZWater'12 Water Conference, Sydney Australia, May 2012
- International Water Technology Conference (IWTC), Istanbul, Turkey, May 2012
 - Engineering Account Manager, Betz-Dearborn (Now Suez), oversaw water treatment for Brooklyn Navy Yard Cogen Startup, JFK Airport Cogen startup, Stonybrook University Cogen Startup, certified pesticide applicator and Betz NY, NJ, CT, EPA liaison





Who to contact CLLEEN[™] Water and Power











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