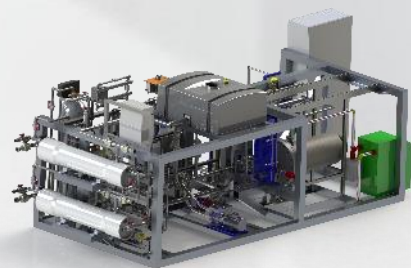




U.S. DEPARTMENT OF ENERGY

# Technology

# Team



Solvent extraction System

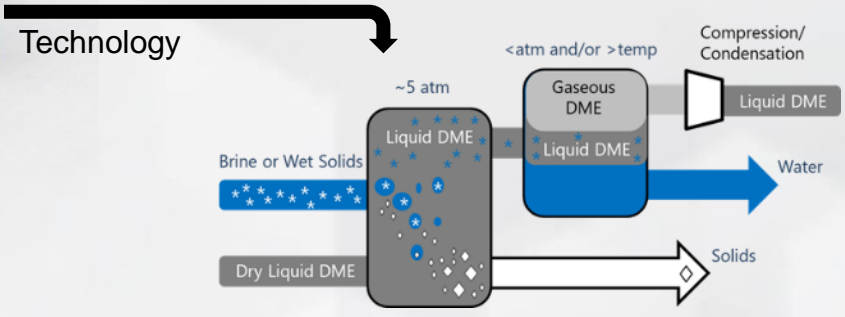
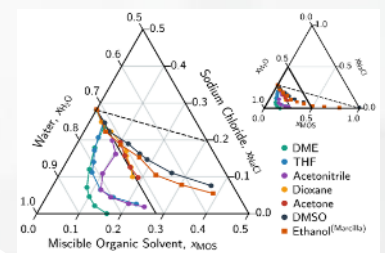


Solar CSP Array



Bell Ranch

# Network Partner



Technology

Heat

Customer

Operating Conditions

- Solvent (DME) is mixed with brine water.
- Solvent precipitates scaling compounds as solids.
- Water may be further desalinated.
- DME is an FDA and ASHRAE approved solvent (no GHG impact).
- DME is easy to remove and reuse.
- DME is low cost.

# Outcome



- More water for agriculture.
- Affordable water cost.
- Brine minimized.
- Recovery of salts for re-use.
- No GHG impact.