



DeepRiver

T e r r a F o r m a

A Deep River Group Company

SYNERGY IS THE SOLUTION

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Oilfield Operator Pain

- Increasing Disposal Costs
- Disposal Well Shutdowns
- Long Term Liabilities
- Public Relations Nightmares

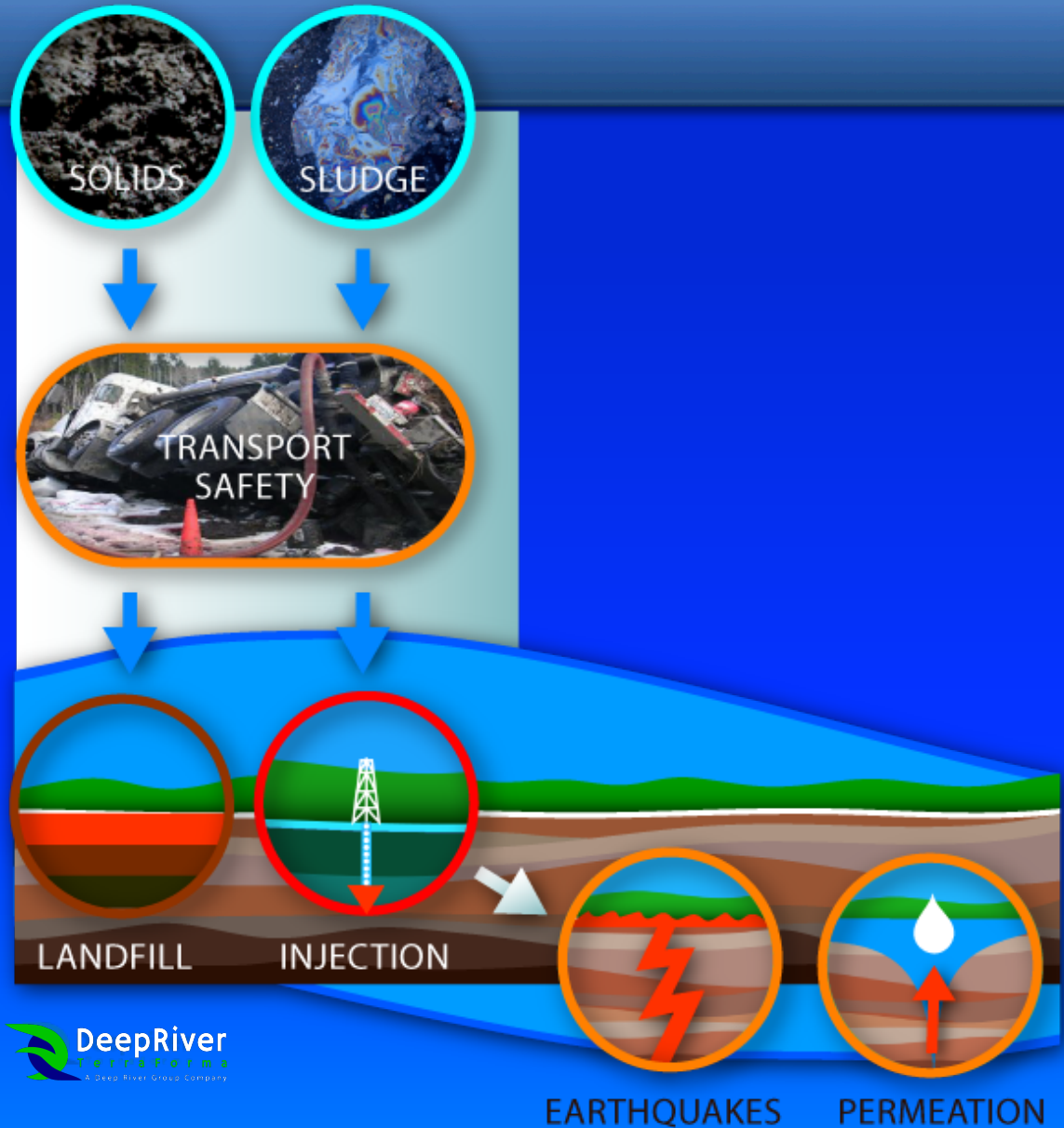


Environmental Issues

- Earthquakes
- Aquifer contamination
- Toxic land fills, land farms



Challenges



The Solution: Recycle ALL Waste

- Solids: solar ponds, road construction
- Liquids: solar ponds, fresh water
- Reconstituted drilling muds
- Skim oil

- **Eliminate disposal wells**
- **Eliminate landfills, land farms**

Proven, Approved Technologies

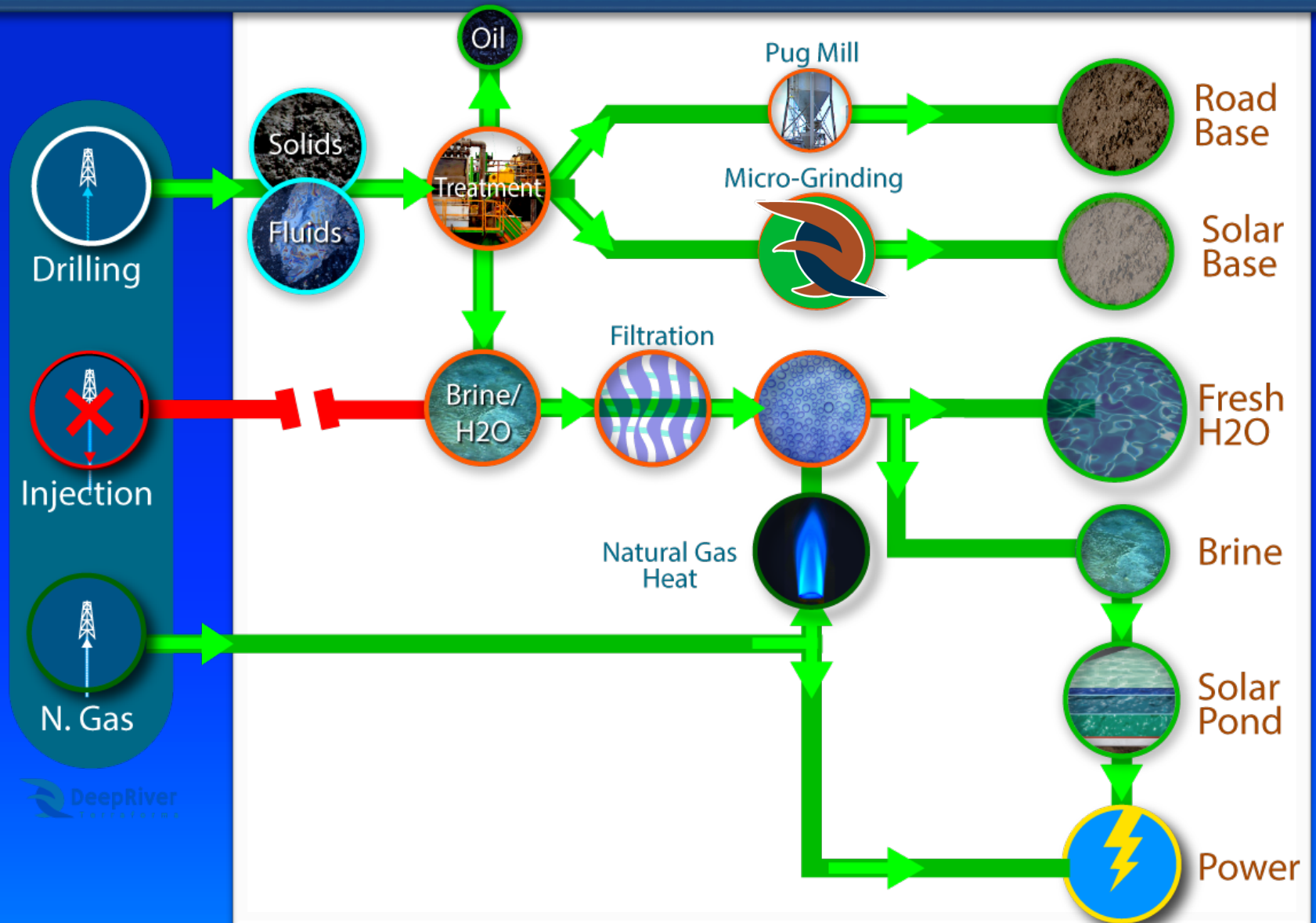
- DOE, EPA approved; NREL accepted
- US Army Corps of Engineers
- Bureau of Reclamation
- Texas DOT, RRC, TCEQ



- **Produced Water**
 - Solar pond brine
 - Fresh water
- **Solids**
 - Solar Pond Base
 - Road Base
 - Glass Cullet → Cement
- **Fluids**
 - Diesel, Reclaimed Oil
 - Reconstituted Drilling Muds
 - Completion Fluids



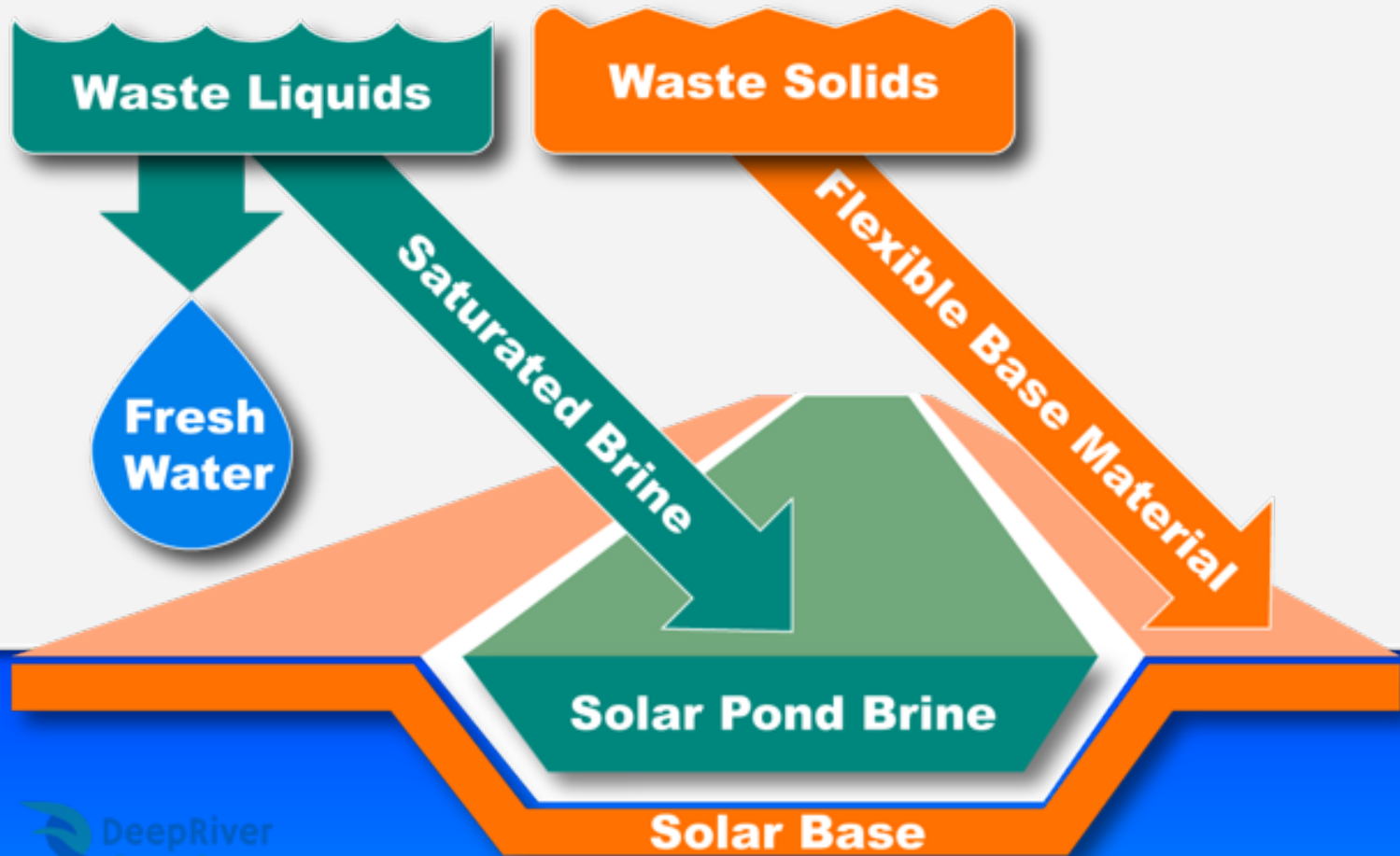
Process Flow





Solar Ponds

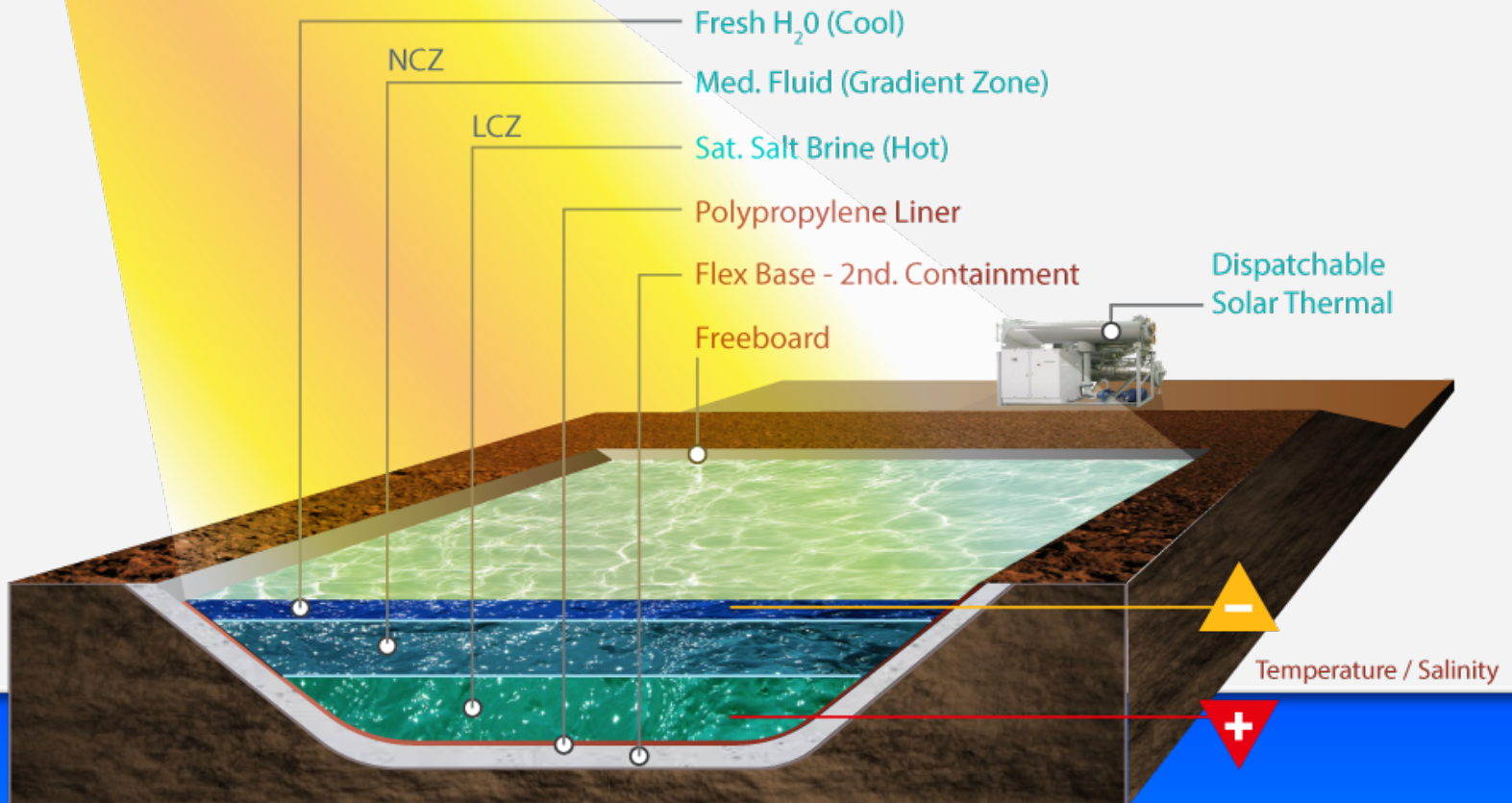
Recycle waste into clean energy





Solar Pond System

- No need for injection of waste water
- Shelf technology for fast deployment



Scale Slope Model



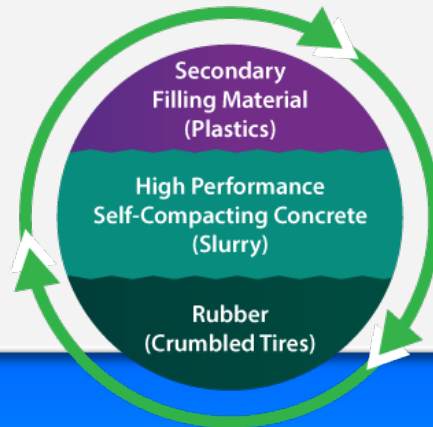
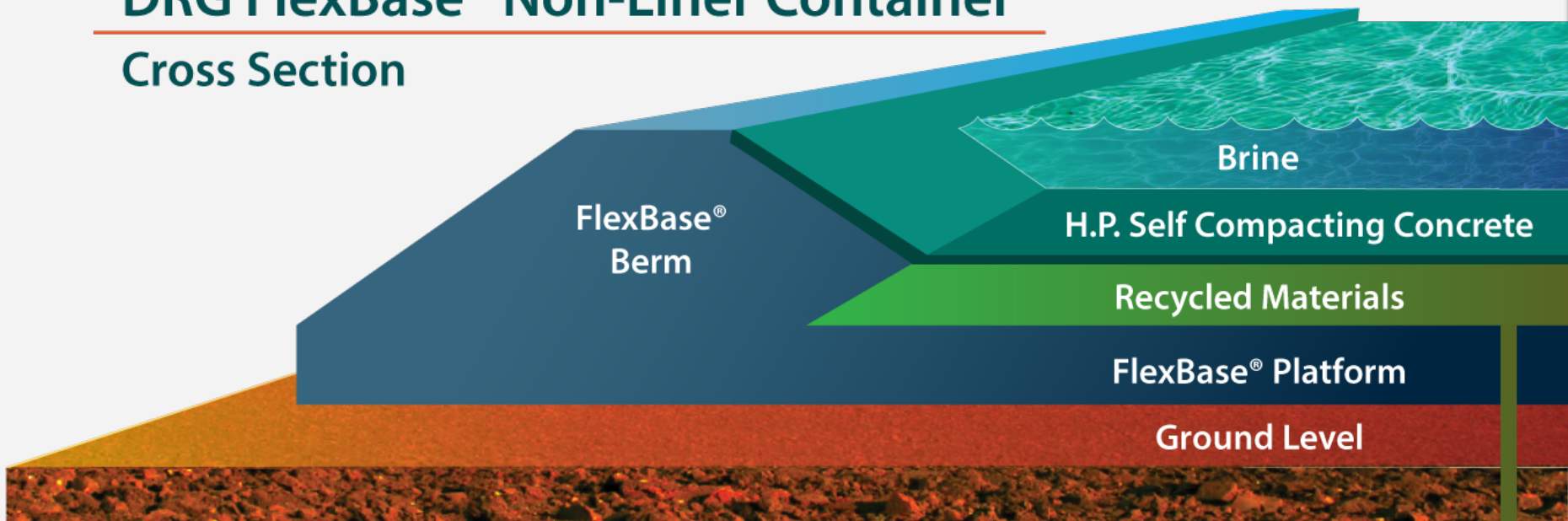


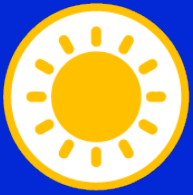
Solar Ponds



DRG FlexBase® Non-Liner Container

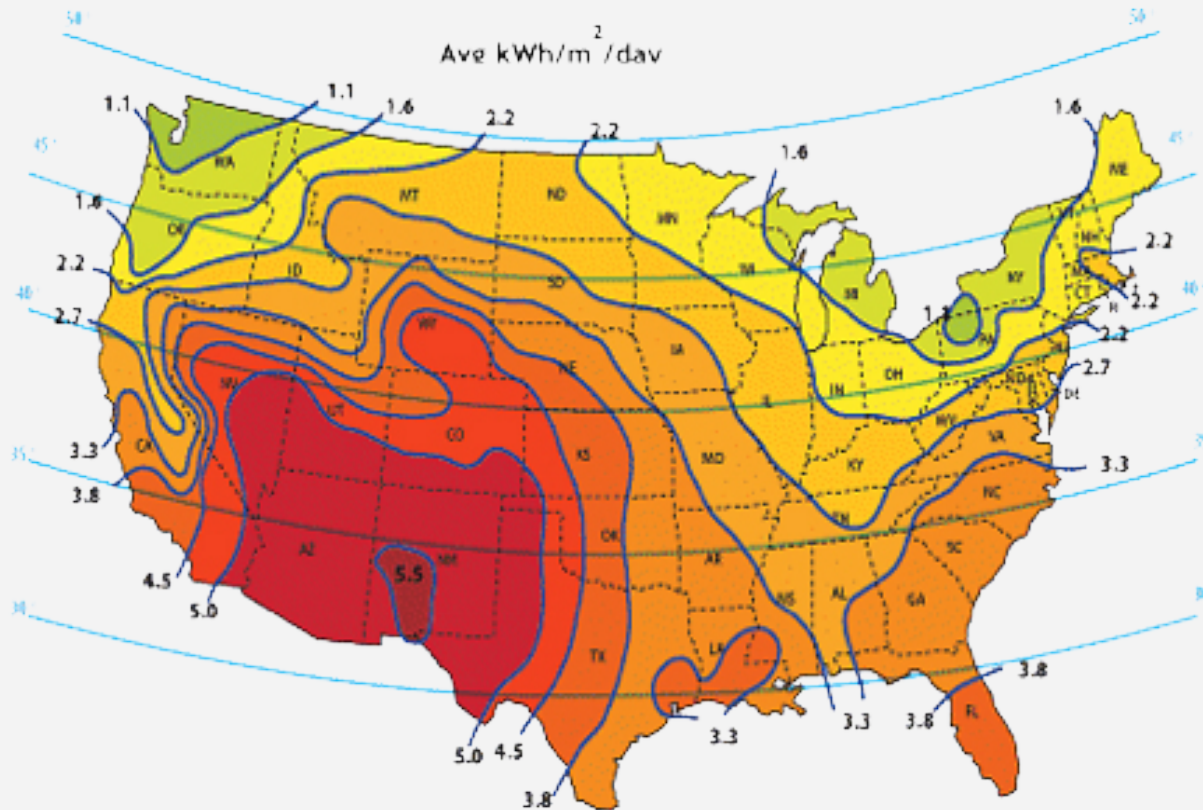
Cross Section

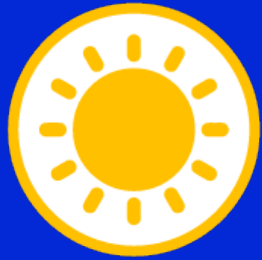




Solar Insolation Map - US

Solar energy in hours, received each day on an optimally tilted surface during the worst month of the year.





Solar Ponds

Cost effective renewable energy

- NREL accepted methodology
- Qualify for ITCs, RECs
- Proven technology
- Dispatchable, load leveling electric power
- Utility scale energy storage

Oilfield Operator Benefits

- Sustainable EPA approved green practices
- Improve public relations
- Digital Thread Product Lifecycle Management
- Reduce operational costs
- Improve bottom line margins
- Eliminate contingent liability

*Your pathway to a sustainable
100% recycling operation*



Synergy is the Solution

- Integrate proven technologies
- Strategic partnerships
- License key processes, technologies



*Our solution from
the sum of your parts*

Integrate Proven Technologies

- GEM Solar Ponds
 - Clean, renewable, load leveling electricity
 - Utility scale power generation and storage
 - ITCs, RECs
- Micro Grinding
 - Recycled glass cullet to spec cement
 - New products from oilfield waste
- Vary Emulsion Separation
 - Improved oil recovery
- Siemens
 - Product Lifecycle Management (PLM) Software
- MVC Environmental
 - Recycle oilfield solids into road base



Our Team

Richard L. Wynn Jr., CEO

- Founder Deep River Group
- Oil and gas geologist
- 3 decades experience

Robert “Bob” Yeggy, PhD, CCTO

- Chemist
- 2 decades experience
- 33 patents

George Nitschke, DEng, PE

- Engineer / Solar Ponds
- 3 decades experience
- 6 patents



Contact

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