

Technical Assistant Request

1. Thermal Vapor Compressor (TVC) Design and Manufacturing.

One of the challenges is finding a partner company, preferably in the US to help us with the design and manufacturing of TVC components of our SolAir Desal technology. In Purestream, we have a resident expert in mechanical vapor compression. They are willing to manufacture the TVC component for SolAir Desal, but only with existing drawings licensed from a third party.

This third party TVC company would either manufacture independently to supply SolAir Desal or license the assembly of their technical specifications to Purestream. Ideally, this TVC manufacturer would produce a unit with higher levels of efficiency than those we have been able to replicate in the lab. A superior TVC component will greatly enhance the efficiency of our unit.

2. Customers

Getting connected to any potential customers that want to treat their water at the price of \$.70 per cubic meter or \$700 per acre-foot will speak to our common interest with Purestream. They have existing customers who are ready to buy at this rate in California, and the High Plains Water District (HPWD) has hundreds of members pumping thousands of cubic meters per day. Both Purestream's existing customers and HPWD members have informed our target price.

Our customers for high salinity brine would potentially be cattle feed companies who produce salt licks for livestock. Members of the High Plains Water District have wells with pumps tied to the Dockum aquifer with high salinity groundwater. Desalinating their water can be used for cattle and the salt byproduct can be reconstituted into cattle nutritional supplements for sale.

Getting connected to customers that could utilize the very saline brine concentrate produced from SolAir Desal technology. With the interest of commercial kitchens to use reclaimed salt from Texas groundwater, we have added an FDA expert to our technical request in part 4.

Culinary customers may be interested in using the salt byproduct from desalination, however, the proper water and FDA testing make this commercial product conversational for now. The potential for cross-marketing is worth pursuing the distant future of this possibility.

3. Test sites

BGNDRF is our primary test site for both produced water and brackish water. However, we are in touch with the High Plains Water District (HPWD). Any potential member of HPWD with well water in the Dockum aquifer or other groundwater sources with high salinity are potential test sites that we would be glad to connect with.

Purestream is also a potential test site as they use mechanical vapor compression to treat produced water. Any other existing produced water treatment facilities are potential test sites, where a SolAir Desal module could be arranged in tandem with their existing equipment.

4. Affiliated experts

A dairy farm affiliated expert would serve as an extension specialist in applied science. Our team has developed a list of dairy farm applications, and could be informed by an inside representative; researchers at existing dairy farms or dairy farm consultants may be hired.

An FDA affiliated expert if any salt byproduct is to be used for human consumption. We have interest from parties who wish to use reclaimed salt for community kitchens and other venues. With the same clientele in hospitality as SolAir Desal, this could be a marketing expense.

Affiliated experts in the Oil & Gas industry could introduce SolAir Desal to end-users. We are actively recruiting interested clients and parties through petroleum engineering departments and common customers. We aim to bring those in the fossil fuels industry into renewable energy.