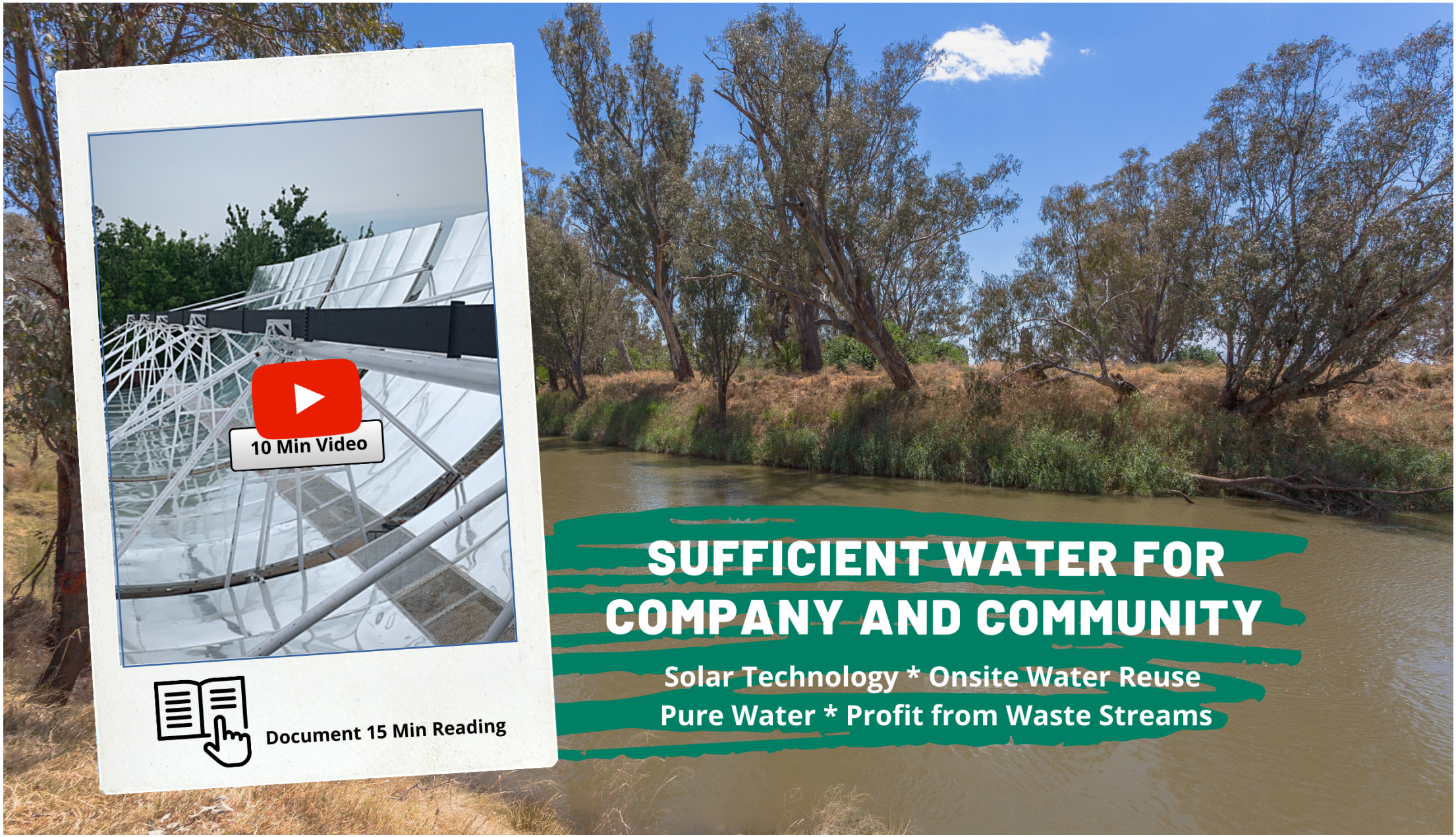
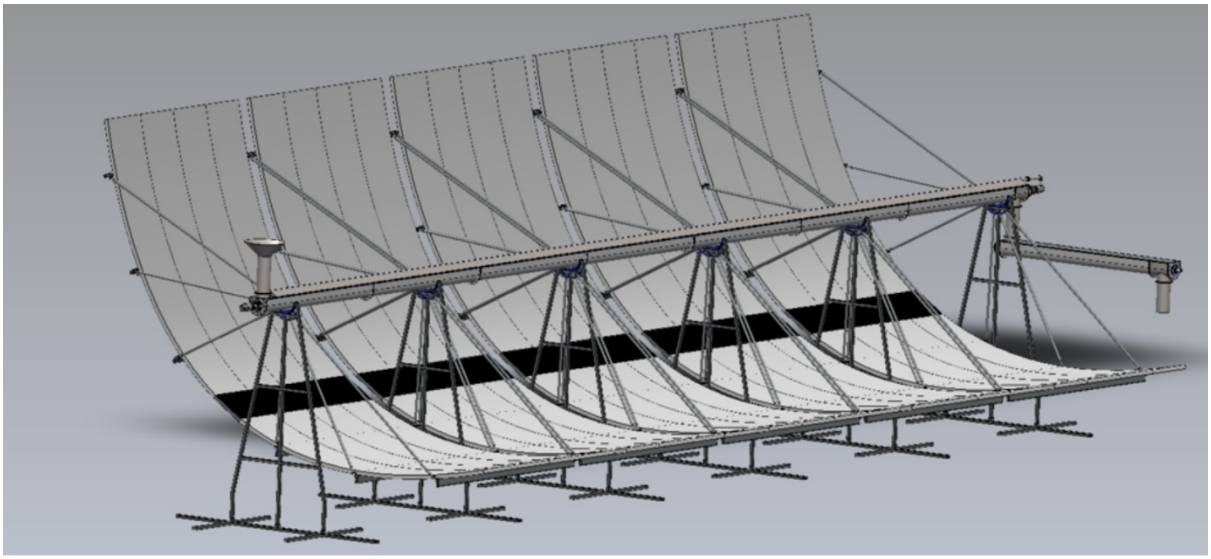

10 Min Video
Document 15 Min Reading
SUFFICIENT WATER FOR COMPANY AND COMMUNITY
Solar Technology * Onsite Water Reuse
Pure Water * Profit from Waste Streams

Sufficient Water For Companies and Communities: Utilising CSMED Solar Distillation Technology



Sufficient water for companies, agriculture and Community

Giving mining companies the technology that enables them to effectively and efficiently reuse onsite water, reduces the need to abstract large amounts from natural and local sources. The result is;

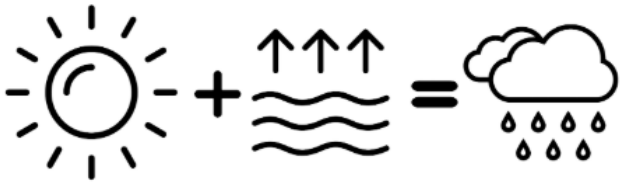
- Sufficient water for companies, agriculture, and communities.
- Reduced Liability and risk of contaminated water
- Reduced Abstraction from Natural Resources
- Reduced need for landholder compensation
- Reduced cost of water treatment and use

Cost Effectively Treating and Abstracting Water

Water is essential for survival and profit in mining, agriculture and community. In Australia, water is scarce. We suffer big dries and it can be hard to find the delicate balance to enable all stakeholders to operate and prosper.

Solar is the cheapest form of energy. There is plenty of sun in Australia and irradiance is completely free.

Our Novel Solar Distillation Technology sounds complicated, but is one of the simplest and effective products to treat and clean water. We have combined the power of the sun, to produce an indispensable resource - PURE WATER



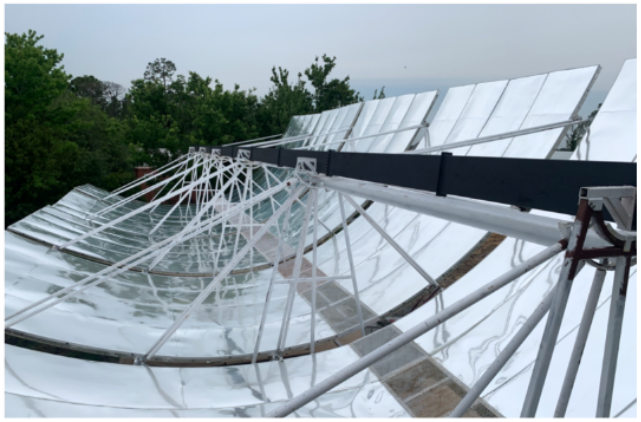
RPI SOLUTIONS

EM: directors@ripsolutions.com.au
PH: 0448 236 446 or 0452 006 105

CSMED Solar Distillation Technology

What does it do?

- Extract Pure Water (TDS 12 - cleaner than Municipal Water)
- We can work with Solids
- Achieve a Zero Liquid Discharge
- Tap onto any waste stream
- Operates on Solar energy - increase energy efficiency



SAMPLE REPORT

TTU Center for the Management, Utilization and Protection of Water Resources
Address: Box 5033 Cookeville, TN 38505-0001 Phone 931 372-3538
Web Site: http://www.tntech.edu/wrc/

Customer Contact — *Street Address*

TEST	Test Method	Result	Units	MDL
Sample No. Clean Water				
Collection Date: 5/22/2014				
1314476-001 Total solids (TS)	SM 2540B	12	mg/L	2
Sample No. Dirty Water				
Collection Date: 5/22/2014				
1314476-002 Total solids (TS)	SM 2540B	217247	mg/L	2

Purify water from **217,247 ppm** to **12 ppm!**
Tap water approx 300ppm

Why is this important? How can it help? What are the benefits?

- Reduce operational, disposal, and maintenance costs for water treatment
- Scaleable
- Reduce risk of contamination, mitigating environmental and safety risk
- Water can be reused on site and for a variety of applications
- Reduces water abstraction from natural or local resources
- Turn cost / waste streams into value / profit streams
- Tailored Automation and monitoring
- Reduce Greenhouse Gas Emissions, Fuel dependency, waste and Carbon Footprint

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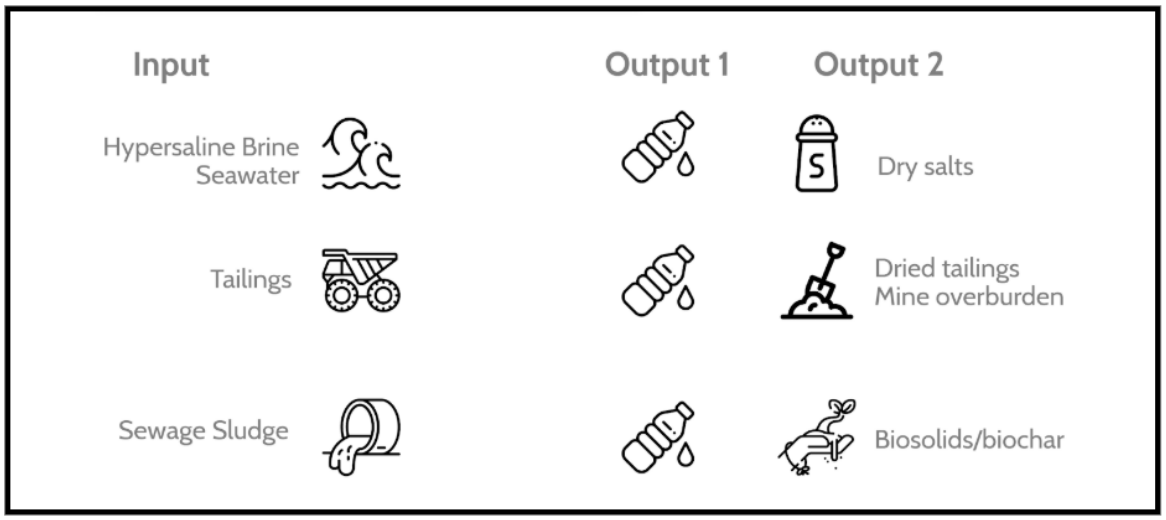
Example Inputs and Outputs



Where can it be used?

- Tailings dams; for dry stacking, water recycling, and secondary extraction
- Voids
- Treating Discharge Quantities
- Desalination
- Turn Effluent into Grade A bio solids for safe and cost effective disposal, rehabilitation, or regeneration of community soil.
- Clean water can be used across a multitude of applications
- Circular economy and value streams business models

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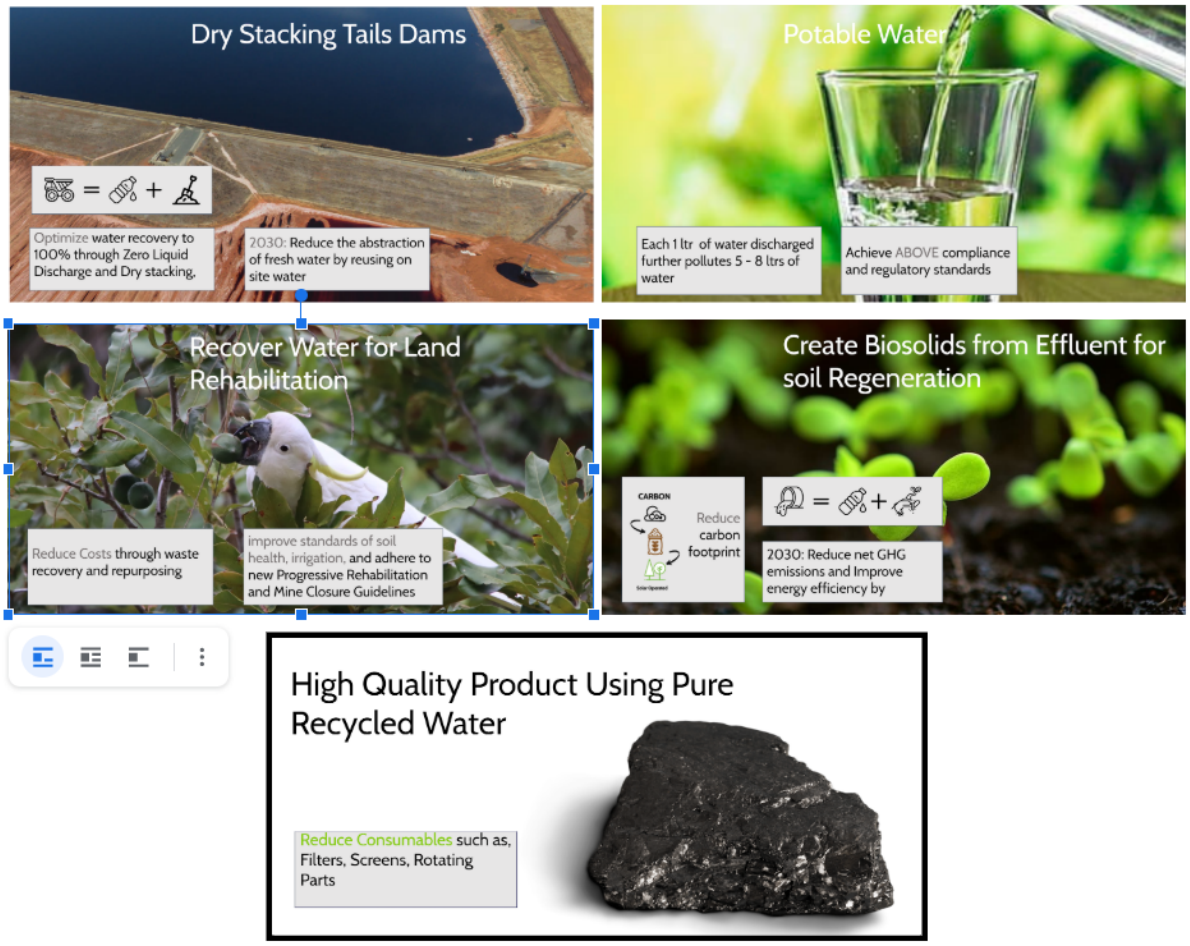
Example Onsite Applications Applications



Our experienced team prides itself in assisting mining companies and communities to find shared value solutions that positively impact a mining company's bottom line and Environmental Standards, whilst increasing prosperity for the local community.

We believe that Social Licence to Operate can also be viewed as a strategic commercial activity.

We understand that mining companies work hard to be trusted industry leaders and we pride ourselves on helping to fill the knowledge and technology gaps, in order for them to do so.

Our Solar Distillation technology is Australian made, We are helping other companies faced by water quantity issues, and community concerns by reusing water on site at a cost that is lower than existing systems. This makes a shared value solution that is economically feasible for the operator and local community.

Companies can Integrate Innovation, with improved operations and practice, and Academic Research Opportunities to certify their competitiveness and reputation.

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