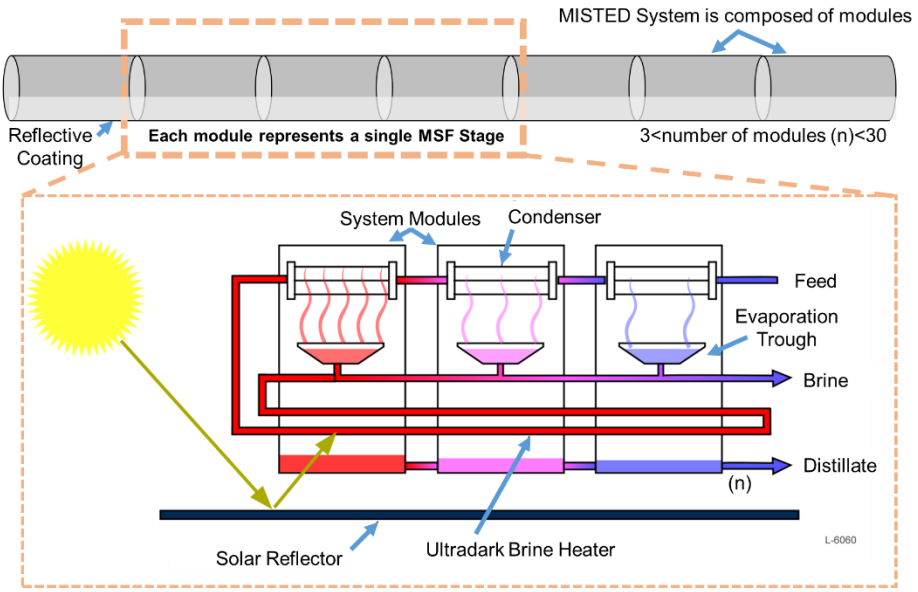
Modular Inexpensive Solar Thermal Evaporative Desalinator (MISTED)

Physical Sciences Inc.



Modular MISTED system stacks layers of multi-stage flash (MSF) for highly scalable design

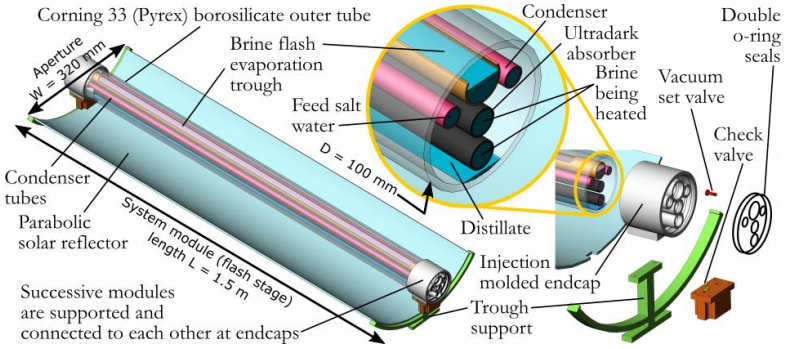
The MISTED Team

- **Physical Sciences Inc (PSI)**: Technology developer with design and fabrication capabilities
- **Winner Water Services (WWS)**: Pilot plant operator and commercialization partner
- **Corning Inc:** Innovator and US domestic manufacturer of glass system components
- **National Renewable Energy Lab (NREL)**: Techno-Economic analysis and design support
- **Brackish Groundwater National Desalination Research Facility (BGNDRF):** Four wells on-site provide representative ground water with varying levels of salinity

Our team has design, operations, manufacturing and economic analysis, and commercialization expertise

- **Anticipated Technology Consumers** include oil well operators, agricultural water treatment servicers, and after adoption, municipal water utilities

2nd Generation Demonstration System



PSI has refined the design of MISTED key components

Key Technical Advantages

- **Low Cost Design and Operation**: MISTED system is constructed using conventional, low-cost components.
- **Combination of Multi-Stage Flash and Concentrated Solar Power**: Ultra-efficient design captures maximum sun light while capturing latent heat of water evaporation.
- **Efficient Self-Contained Design:** Modular system allows many MSF stages to be stacked in series

MISTED system leverages key advantages to achieve a levelized cost of water of <$1.70/m^3