



**Renewable Energy Systems**

**Economic Clean Energy**

[www.tas.com](http://www.tas.com)



### **Economic**

Modular design reduces schedule and construction risks.

### **Efficient**

Advanced proprietary design incorporating supercritical cycle.



### **Reliable**

Factory built under ISO processes, tested and quality checked prior to shipment.



### **Accountable**

Single source solution provider with standard products in custom integrated applications.



### **Sustainable**

Low risk non-flammable fluid.



# TAS

TAS is a technology company providing **clean economic power** solutions by focusing on energy efficiency and renewable energy markets. TAS designs and manufactures modular energy conversion and cooling systems for the power generation industry; the district, commercial and industrial process cooling industries; mission critical facilities; and the industrial sector. TAS specializes in **high efficiency standard product** designs optimized for low life cycle costs. TAS' product capabilities include geothermal and industrial waste heat power generation solutions, gas fired generation augmentation, chilled water systems, modular data centers and clean heat and power on-site energy systems. TAS was founded in 1999 and is headquartered in Houston, Texas with additional operations in the Middle East and Southeast Asia.

## GEOTHERMAL



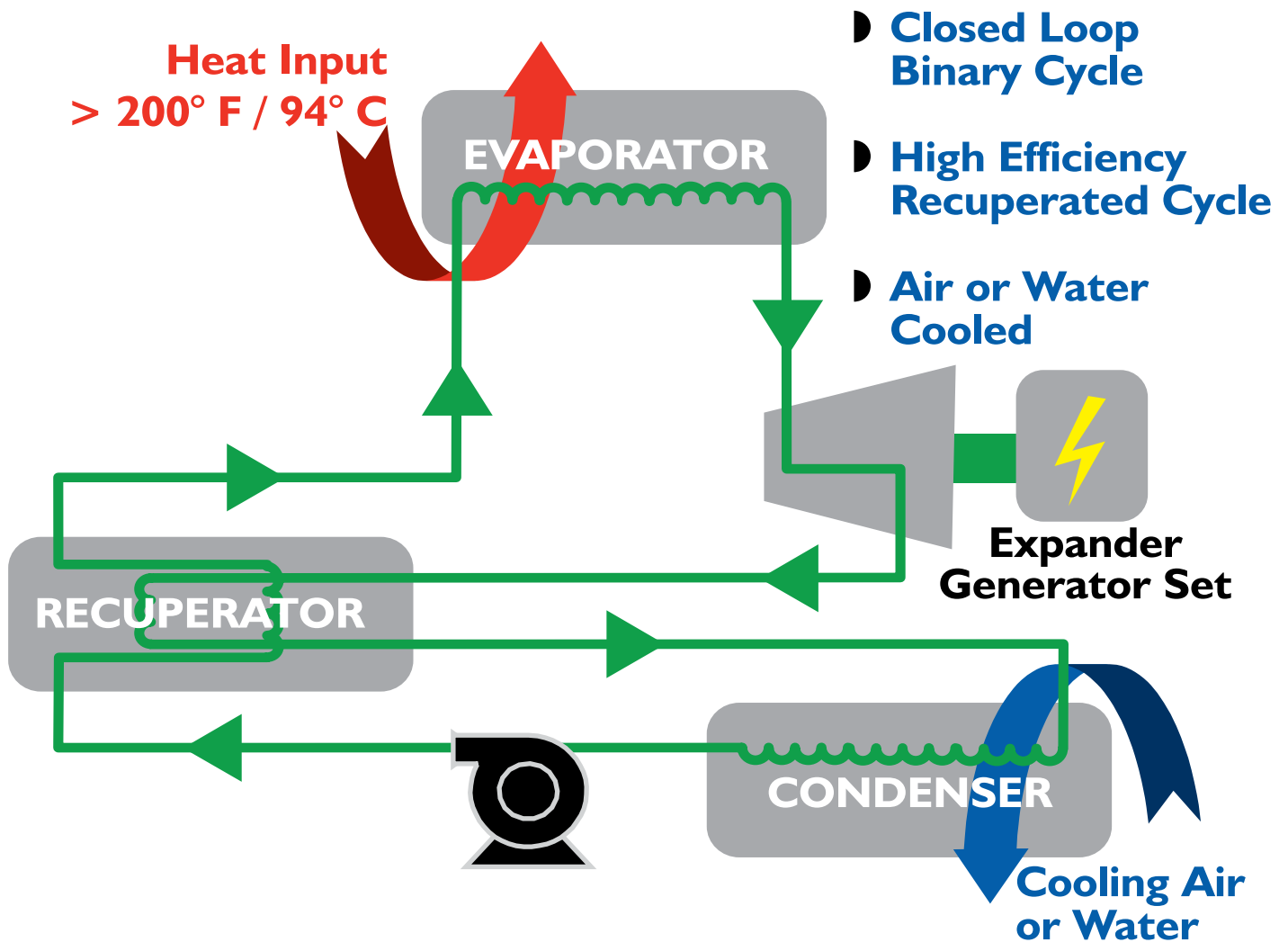
## WASTE ENERGY



## SOLAR THERMAL

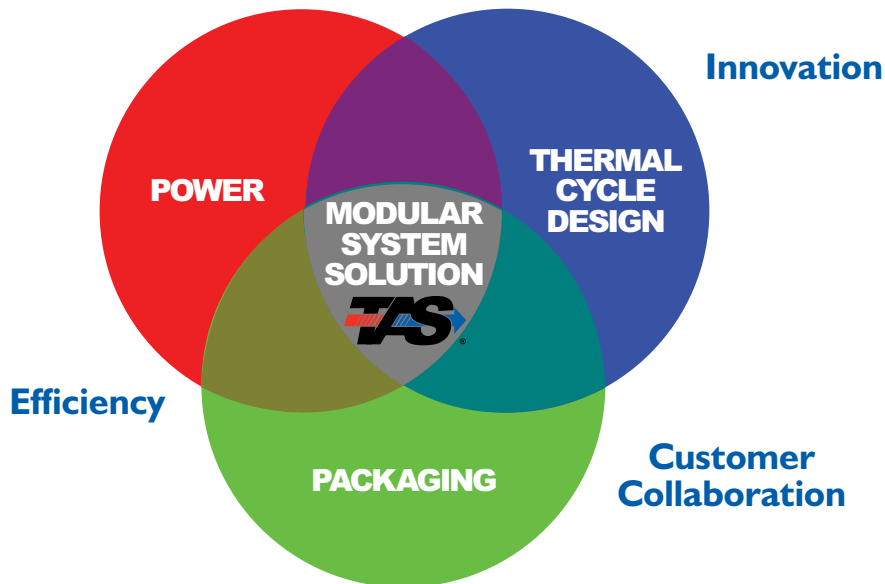


## BIOMASS



## Who We Are

Turbine Air Systems (TAS) manufactures **modular organic rankine cycle / binary energy systems**, power augmentation, and central plants based on highly engineered, standard product designs that are optimized for low life cycle cost and **ultra high efficiency**. As an innovator and industry leader with multiple patents, TAS is a global leader in modular energy solutions, recognized for challenging industry convention, and for being the first to introduce modular energy plants in industries accustomed to the traditional practice of design / build field construction.



## Our Expertise

TAS has invested tens of thousands of engineering hours to revolutionize and optimize **rapidly deployable modular package designs** by introducing standard products to the marketplace. Factory assembly versus field construction increases speed-to-market and reduces project schedule and cost. Every new TAS solution benefits from the experience garnered from the hundreds of installed TAS modular energy systems that span a wide range of power, commercial, institutional, district cooling, industrial process cooling, and on-site combined heat and power (CHP) applications.

Each project has unique requirements and TAS offers a wide array of options to develop systems that will address the specific needs of the project - including power output; space limitations; reduced access to utilities or transmission; water limitations, and air cooled designs. TAS has the experience, expertise, and flexibility to create a quality solution for you.

## Customer Focus

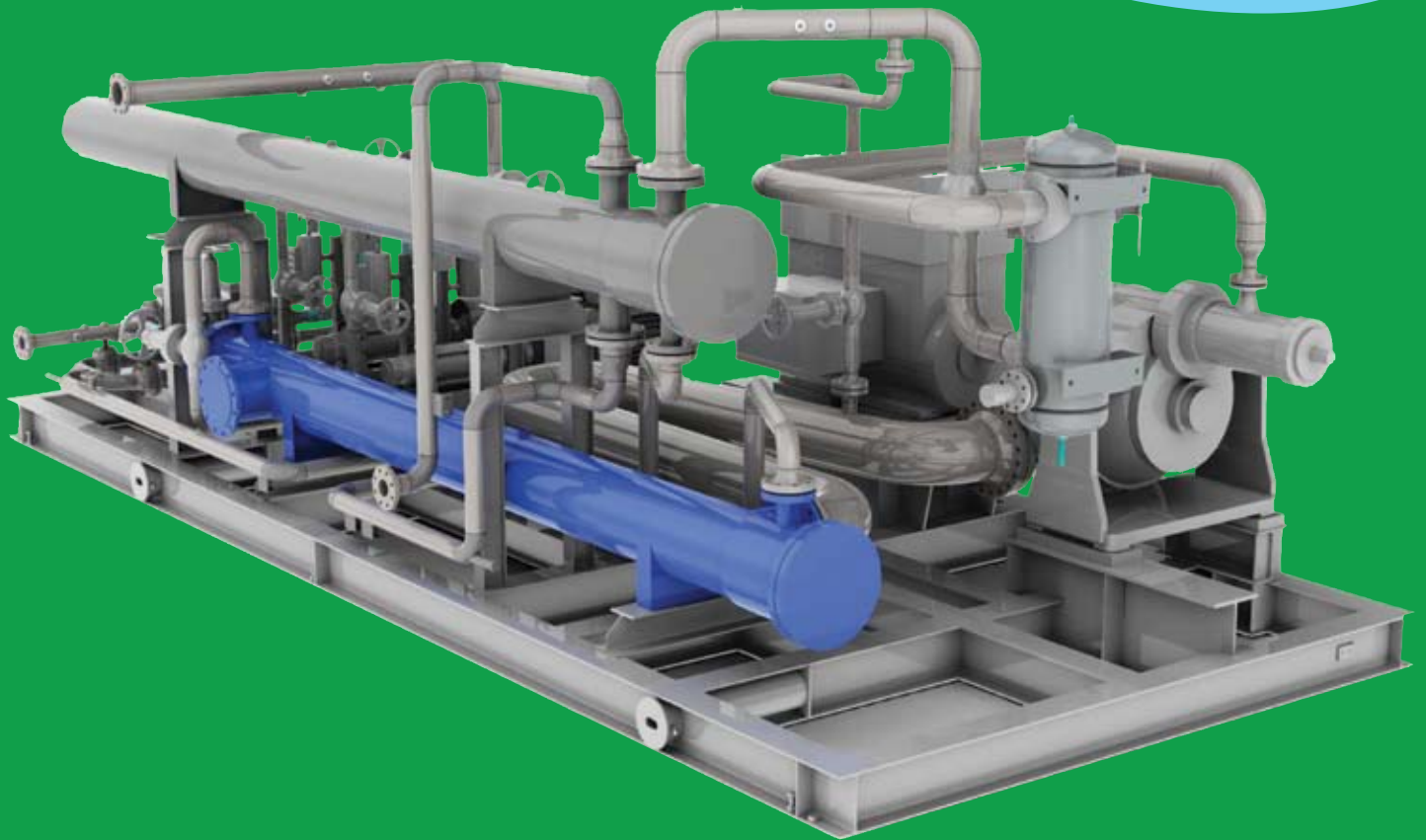
Our focus is to save you energy, capital, and time by facilitating a rapidly deployed modular energy solution, be it a geothermal power plant or waste heat to power application. Customers buying a modular energy plant from TAS can be assured that the plant

is optimized for efficiency, economically advantaged installed first cost, and low life cycle cost. We help customers quickly install modular energy systems, producing **power and revenue in the shortest possible time**, while minimizing project risk by addressing schedule, financial targets, operational performance and minimal plant size needs.

The use of standard designs and repeatable manufacturing processes in an **ISO 9001 controlled** environment provide a modular heat recovery solution that **can be relocated** in the event the project requirement changes. Whether your project entails new construction or expansion of an existing facility, TAS will strive to provide an optimal system solution for you.

## The TAS Commitment

As a single source provider, TAS leads the industry by **guaranteeing** that **our products** will meet schedule and the stated performance, while remaining within the quoted price. TAS is proud to demonstrate its commitment to high quality design, manufacturing, and service of modular energy plants from its **U.S. manufacturing operations** located in Houston, Texas, U.S.A. This commitment extends to continually striving to assure that our customers' expectations are met or exceeded.



## The TAS Heat Recovery ORC Module

- ▶ Source temperatures > 200°F / 94°C
- ▶ Sizes ranging from 1 MW – 15 MW
- ▶ TAS ORC technology utilizes safe and non-flammable working fluid
- ▶ Air or water cooled applications
- ▶ Configurable to match customer requirements for pressure, temperature, voltage, synchronous or induction generation
- ▶ Pre-wired and tested prior to shipment for low risk and efficient installation
- ▶ Modular solution allows electric capacity to match heat source capacity
- ▶ Optimized to resource conditions and customer requirements



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## Geothermal



## Solar Thermal



## Waste Energy



## Biomass



**HEAT is POWER**  
*Let's Capture It*

