



**FLOOD POWER  
SYSTEMS**  
Powered by the Planet™

## The Energy Crisis: A Challenge We Must, and Can, Overcome

- **Electricity is the foundational commodity for development and the global economy, and demand is only increasing.**
- **The need for clean, continuous, scalable energy solutions is urgent.**





## **Tomorrow's Solar: Utility-Scale Energy 24/7/365**

### **No Intermittence, No Storage**

- Registered in Delaware, Flood Power Systems, Inc., is a Massachusetts-based, **for-profit “public benefit” corporation (B corp)**, committed to **powering carbon-free economies** around the world with our new, globally patented **solar thermal electric generation system**.
- **Not reliant on direct sunlight**, Flood Power captures, concentrates and **converts heat from the sun into electricity**.
  - Continuous, small footprint, **uses no fuel, makes no emissions**.
- **Similar to hydropower**, but without the need for a river, dam, or flowing water
  - Closed, controlled system—**Hydropower in a Tower**<sup>®</sup>, trademarked tagline
- **Utility-scale output for high-volume customers**
  - Grid operators, data centers, cement, steel, auto plants
- **Highly profitable, reliable, scalable** energy system
  - **5-20 megawatt (MW)** FT125 to the FT200, expected to produce 50 MW continuously, or **1,200MWh/day**
  - Higher-load customers served by **multiple Flood Towers**

**Best Currently Available  
Technologies in Grid-Scale Solar:  
Intermittent, Unsightly, Expensive**



Tengger Desert Solar Park,  
China – 1500MW PV & storage  
– 463 square miles



Bhadla Solar Park, India – 2245MW PV – India, 17.5 square miles



Waldpolenz Solar Park, Germany—52MW Solar PV

**Today's Solar Thermal Electric Generation, Concentrated Solar Power (CSP):**  
**Expensive, Location-specific, Intermittent**



Noor Power Station, Morocco, 510MW CSP, 6.5 hrs storage, \$2.5 billion



Ivanpah Solar Thermal Electric Generating Station, California, 377MW, \$2.18 billion

## Tomorrow's Solar Thermal Electric Generation: Continuous, Inexpensive, Unobtrusive, Scalable

- **Air stores energy in the form of heat, constantly replenished by the sun.**
- Flood Power's **compression-based system captures, concentrates, converts ambient heat**, operates 24/7 at utility or microgrid scales.
- **2 Patent "families" operating in tandem**—Unique **cascading heat pump** design and the **Flood Tower**, which converts low-grade heat into electricity via displacement, a function of gravity.
- **Flood Tower is built to blend in**, align with local preferences—modern building, farm silo, camouflage, etc.



5-20MW Flood Power Center on a small footprint



15-60MW Flood Power Center, slightly bigger footprint

## FT125 “Hidden in Plain Sight” — Noiseless & Emissions-Free



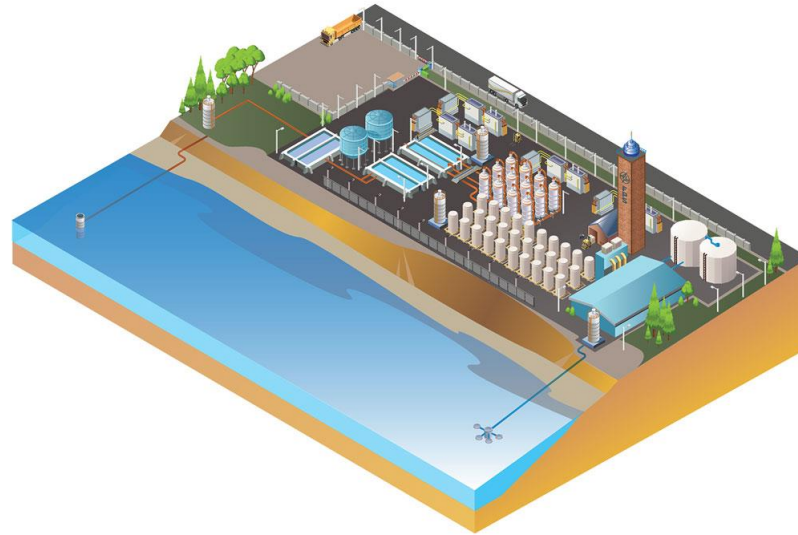
Street View

View from ½-mile



**Highly Versatile:**  
**Direct Connections Provide Affordable, Reliable Electricity to Energy-intensive Industries**

**Flood-Powered Desalination Plant**



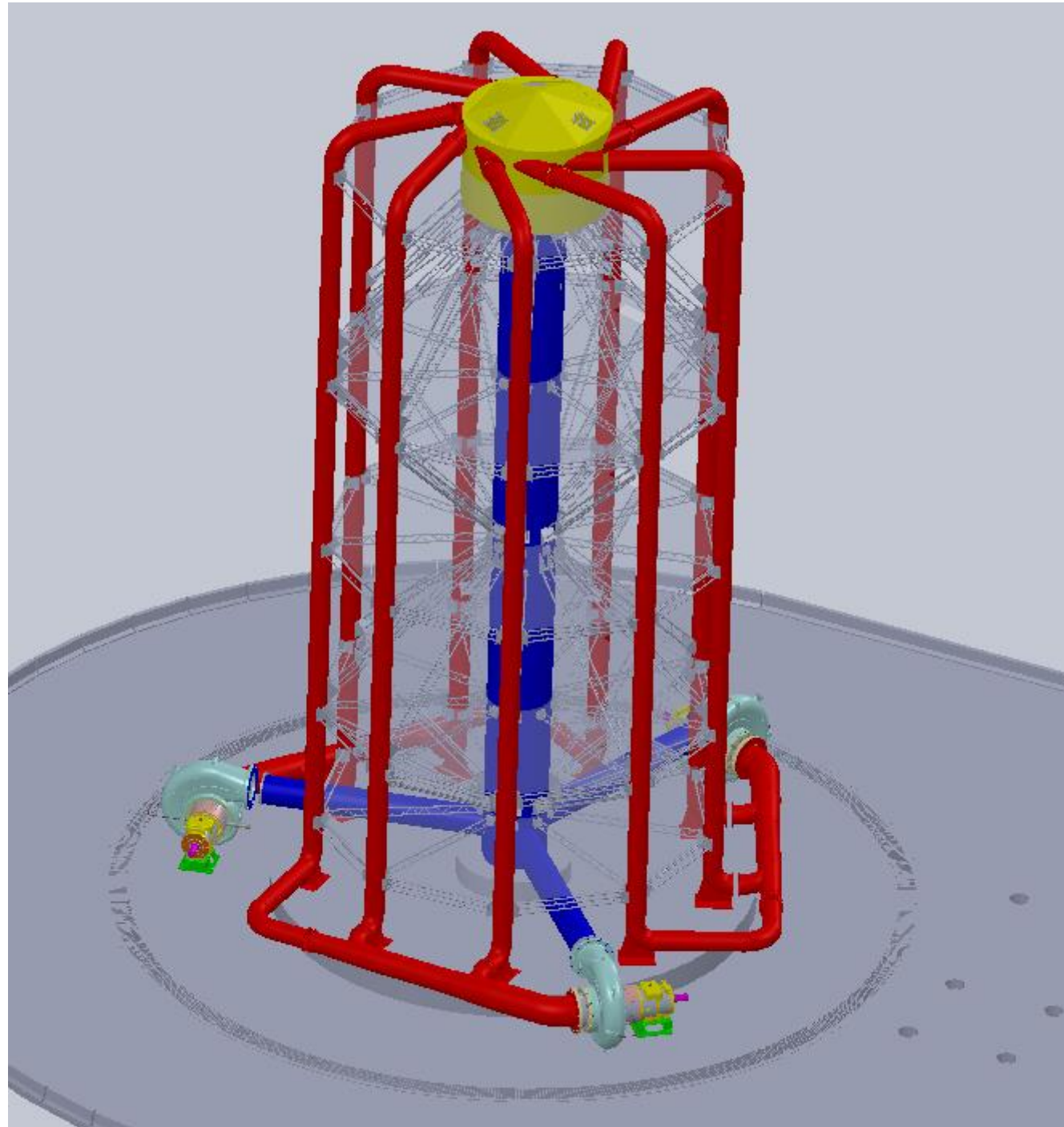
**Flood-Powered Recycling/Plasma Gasification Plant**



**Flood-Powered Hyperscale Data Center**

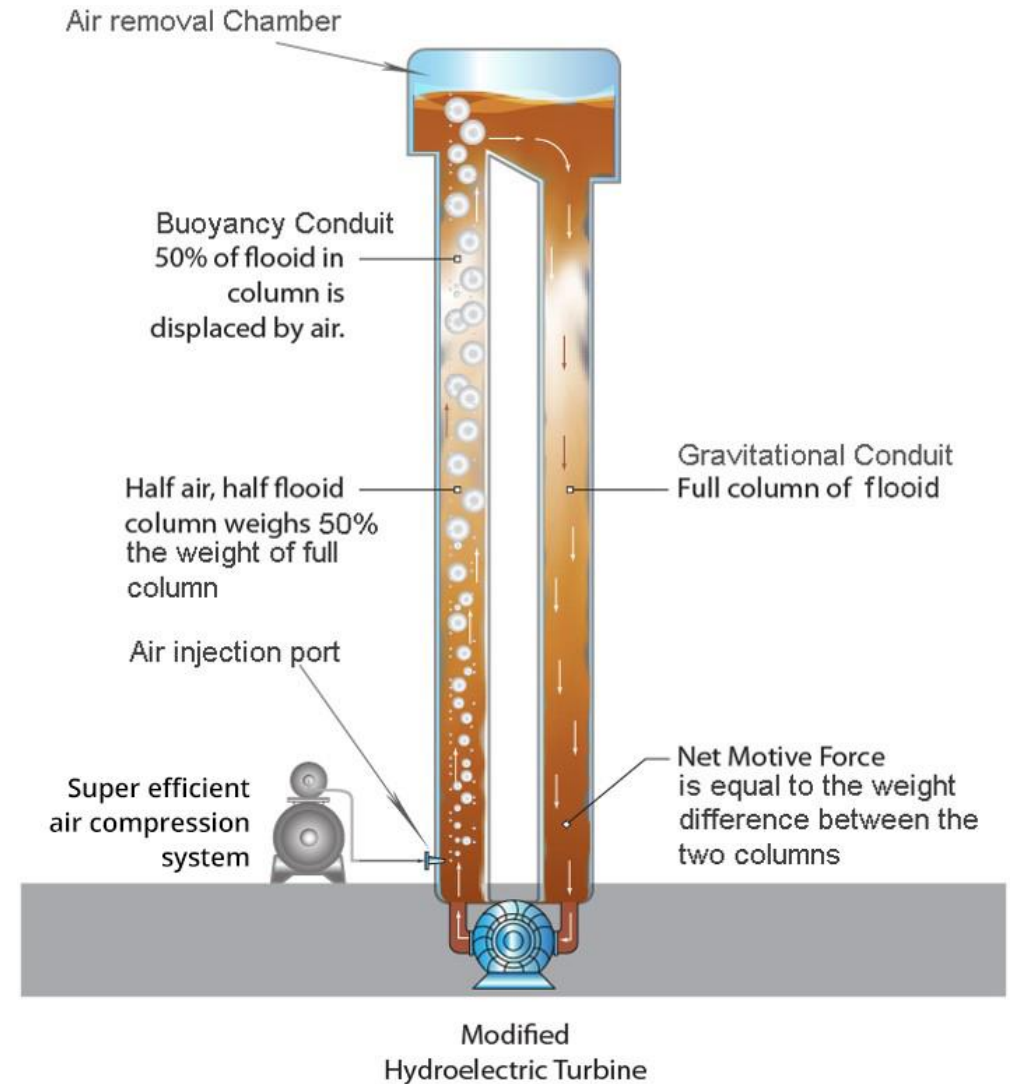


FT125 CAD Design Drawing

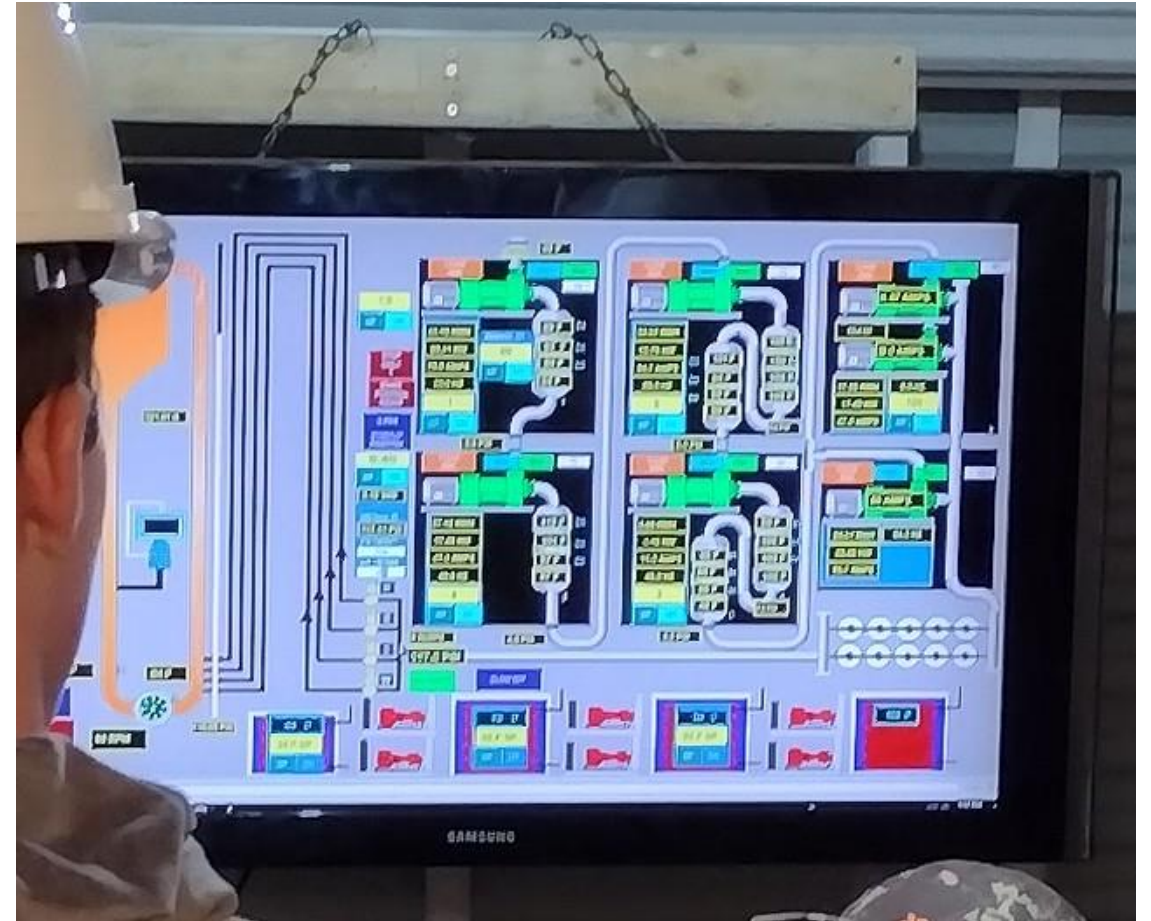


## How it Works—Hydropower in a Tower®

- Two Patent “Families” working in tandem: High-volume cascading air compression & heat capture system incorporates large mechanical compressors with specially designed refrigeration equipment.
- Multiple cascading cycles of mechanical compression and refrigeration result in **more work being performed isobarically, not mechanically**—uses less electricity while actively capturing otherwise-wasted heat for conversion into electricity.
- Flooid Tower converts super-efficiently compressed air energy and heat into kinetic flooid energy via displacement.
- ***Constantly introducing air and heat maintains motive flow.*** Continuously-flowing flooid drives modified hydropower turbines, generating ***renewable, reliable, affordable electricity.***
- ***Flooid is an excellent heat sink***—captures, concentrates thermal energy. Heat absorption causes ***polytropic expansion of air.***



Short-term, Low-output Pilot FT125 Confirms Design,  
Engineering for Commercial FT125



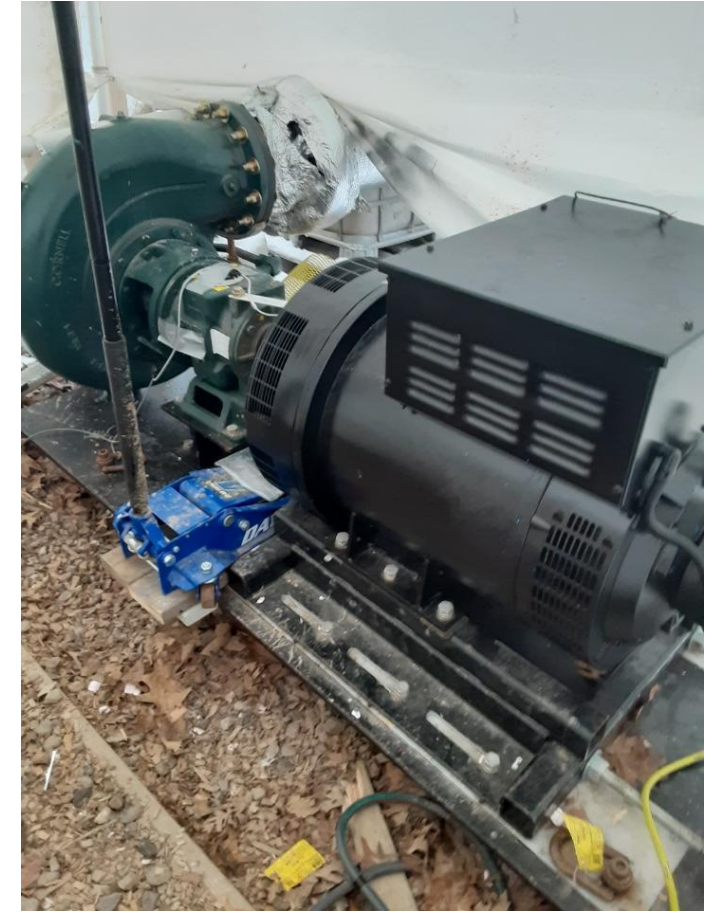
System Controls Monitor, with Flood Tower on left



Compressors & Intercoolers



Water Baths/Refrigeration



Turbine/Generator

## Milestones & Industry Traction

- **Multiple Patents issued and pending** around the world (India, China, Japan, South Korea, US, EU and several countries within it, South Africa, etc.)
- **Operational pilot system** currently proving the technology, scalability
- **Utility, high-volume customers & sites identified**—data centers, municipal utilities first
- Path to recognition by **Commonwealth of Massachusetts as eligible to generate Class 1 Renewable Energy Credits (RECs)** as a new solar thermal electric generation technology.
- Proven technology— **Demonstrated Coefficients of Performance (COPs) of 9** for patented cascading heat pump system—**2.5-3x better than the best commercially available systems.**
- **Licensing opportunities** with HVAC, refrigeration, and compressor industries—**likely first revenue**

## Unique Value Proposition

- **Industry-standard Construction, Maintenance & Operational Costs**
- **High Continuous Production on a Small Footprint**
- **Novel Re-configuration of Mature, Tested Technologies--Established Vendors, Supply Chain**
- **No Fuel or Storage Costs**
- **Monetizable Energy Benefits (RECs, Carbon Credits)**
- **Highly Profitable: 4-6-year payback time, depending on system output, market served, negotiated rates, etc.**



## Key Vendors/Development Partners

- Nutter, McClennen & Fish, Intellectual Property attorneys
- Eastern Refrigeration—Specially designed refrigeration equipment is an essential part of FPS’s patented cascading heat pump. Eastern was an early a vendor/development partner, and continues to be critical to the development of FPS’s **cascading heat pump design, with demonstrated Coefficients of Performance (COPs) of 9**. Stan Shumbo, co-founder& VP of Eastern, **has invested personally** in Flooid Power Systems, Inc.
- Neil Doherty, Senior VP of Aon Insurance, which has secured coverage for the pilot Flooid Tower via the specialty insurance market and **will provide surety bonds backing production of our Flooid Power Centers**. **Neil has invested personally** in Flooid Power Systems, Inc.
- Matt Cain, President of Ohio-based Eaton Compressors and Emax Compressors, **also an investor personally**
- Woodard & Curran, Engineering, Design/Build Contractor
- **Ten or eleven technical vendors and professional service providers are investors** in FPS, Inc., reflecting their belief in the technology and company.



## Company Structure, Past & Future Funding

- **FPS co-founded in 2017** with \$1.5 million in founder funding. **B corp status reflects co-founders' shared values.**
- **Project-based company**—FPS, Inc. will **own and operate** Flooid Power Centers **directly or via JV or licensing to established companies.** Community benefit is part of FPS's business model.
- **Flooid Power Centers** are standalone LLCs, consumer co-ops, etc., **financed non-dilutively via long-term loans.**
- **Significant progress made on little capital:** \$3.25 million raised from accredited investors through a convertible note at a \$102 million valuation.
- Flooid Power is **near-commercialization**, and FPS is seeking **investment to accelerate growth and achieve revenue-positivity.** Funds will enable FPS to:
  - **Start to Build Beta plant**, co-located with a data center customer—engineering, design, etc.
  - **Continue R&D and marketing of cascading heat pump design, become revenue-positive via licensing**
  - **Hire key personnel**
- Also seeking relationships with **potential project-finance partners, licensees, vendors, utility managers, etc.**





Thank you for your interest in Flooid Power



Powered by the Planet®

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