



PRO-FRGW

SOLAR • STORAGE • SMART ENERGY

POWERING TODAY. **BUILDING TOMORROW.**





SUSTAINABLE 24/7 ENERGY. POWERING AI. POWERING TOMORROW.



CLEAN ENERGY



24/7 RELIABLE POWER



ZERO EMISSIONS SUSTAINABLE FUTURE



BUILT FOR AI DATA CENTERS



PRO-FRGW
HEAT STORAGE BATTERY



24/7 DISPATCHABLE POWER



ZERO CARBON FOOTPRINT



CLEANER PLANET BETTER FUTURE



RELIABLE. SECURE. SUSTAINABLE.

AI
DATA CENTER






CLEAN ENERGY TODAY FOR A SMARTER, GREENER TOMORROW.
SUSTAINING THE AI REVOLUTION.



BUILT IN AMERICA. POWERING AMERICA.


Our team. Your energy future.

-  ENGINEERED FOR RELIABILITY
-  INSTALLED WITH PRECISION
-  POWERING A SUSTAINABLE FUTURE



USA BASED PROJECT



 PRO-FRGW
USA PROJECT





SMART TECHNOLOGY. SUSTAINABLE RETURNS. POWERING THE FUTURE.

Advanced Heat Storage Battery Solutions
Designed for a Clean, Reliable Tomorrow.

PRO-FRGW HEAT STORAGE BATTERY

CAPTURING THE SUN. STORING THE HEAT. POWERING THE FUTURE.



HIGH TEMPERATURE
500°C - 1500°C
thermal storage



LONG DURATION
10+ hours to
multi-day storage



24/7 DISPATCHABLE
Power on demand
day or night



SAFE & STABLE
Non-flammable,
non-toxic, built for
extreme conditions



CLEAN ENERGY
Zero emissions
operation



SCALABLE & MODULAR
Designed for projects
of any scale



LOWER LIFECYCLE COST
High efficiency,
long life, low O&M



BUILT IN AMERICA
Supporting local jobs
and a stronger future



NO LITHIUM



NO COBALT



NO NICKEL



NO RARE EARTH

BUILT FOR
THE AI ERA

INVESTING IN
CLEAN ENERGY.
INVESTING IN
TOMORROW.



NEXT GENERATION ENERGY SOLUTIONS

POWERING AMERICA. POWERING THE FUTURE.

PRO-FRGW delivers 24/7 dispatchable, clean, and reliable energy through advanced Fresnel Lens technology, high-temperature thermal storage, and American innovation. Built in America. *For America.*



CAPTURE THE SUN



STORE THE HEAT



DELIVER 24/7 POWER



SECURE AMERICA'S ENERGY FUTURE

BUILT IN AMERICA. POWERING AMERICA.

★ CLEAN. RELIABLE. SUSTAINABLE.



HIGH TEMPERATURE
500°C – 1500°C+
Industry-leading thermal storage technology



24/7 DISPATCHABLE POWER
Energy when it's needed, day or night



CLEAN & SAFE
No lithium.
No rare earth elements.



BUILT TO SCALE
Modular, scalable solutions for any size project



AMERICAN INNOVATION
Designed, engineered, and built in America

DELIVERING RELIABLE CLEAN ENERGY TO POWER AMERICA



AI DATA CENTERS



INDUSTRIAL



UTILITIES



COMMERCIAL & GOVERNMENT



CAPTURE TODAY. STORE TODAY. POWER AMERICA TOMORROW.





500°C – 1500°C
— THERMAL STORAGE



FRESNEL LENS & CSP TECHNOLOGY

ADVANCED SOLAR CONCENTRATION.
MAXIMUM HEAT. MAXIMUM PERFORMANCE.



HIGH CONCENTRATION

Precision Fresnel lenses concentrate sunlight up to 1,000x for high-temperature thermal output.



HIGH TEMPERATURE CAPABILITY

Delivers temperatures up to 1500°C+ for efficient power generation and thermal storage.



INTEGRATED THERMAL STORAGE

Seamless integration with PRO-FRGW Heat Storage Battery for 24/7 dispatchable energy.



MAXIMUM EFFICIENCY

Optimized optical design and tracking systems ensure peak efficiency and reliable performance in all conditions.



MODULAR & SCALABLE

Flexible system design for projects of any scale, from industrial applications to utility-scale CSP plants.



CLEAN & SUSTAINABLE

Zero fuel. Zero emissions. Harnessing sunlight for a sustainable energy future.

**POWERING A
CLEANER FUTURE
WITH INNOVATIVE
CSP SOLUTIONS.**



RENEWABLE ENERGY

REDUCED CARBON FOOTPRINT

LOWER LCOE

RELIABLE 24/7 POWER

BUILT FOR PERFORMANCE





BUILT IN AMERICA. POWERING AMERICA.
— CLEAN ENERGY. AMERICAN INNOVATION. —

FRESNEL LENS TECHNOLOGY

CAPTURING MORE SUN. DELIVERING MORE ENERGY.

PRO-FRGW Fresnel Lens Technology concentrates sunlight with exceptional efficiency to generate high-temperature heat for long-duration thermal storage and 24/7 dispatchable power.


 **HIGH CONCENTRATION**
Focuses sunlight to extreme temperatures

 **HIGH EFFICIENCY**
Maximizes energy capture and performance

 **MODULAR & SCALABLE**
Designed for rapid deployment from MW to GW scale

500°C – 1500°C
OPERATING TEMPERATURE RANGE

 **CONCENTRATE**
Advanced Fresnel lenses capture and focus solar energy.

 **GENERATE**
Produces high-temperature heat up to 1500°C+ with incredible efficiency.

 **STORE**
Heat is stored in PRO-FRGW Thermal Storage Batteries for long-duration energy.

 **DISPATCH**
Deliver clean, reliable, dispatchable power anytime, day or night.

 **NO LITHIUM**
No lithium batteries

 **NO RARE EARTHS**
No rare earth elements

 **SUSTAINABLE**
Clean. Safe. Reliable.

 **LOWER COST**
Lower cost. Higher performance.

The Process of Concentrated Solar Power, or CSP

Capturing the Sun. Storing the Heat. Powering the Future.



CSP ADVANTAGES WITH PRO-FRGW

-  CLEAN AND RENEWABLE
-  RELIABLE AND FIRM
-  24/7 DISPATCHABLE POWER
-  HIGH TEMPERATURE EFFICIENCY
-  LONG-DURATION ENERGY STORAGE
-  ZERO CARBON EMISSIONS



NO LITHIUM.
NO RARE EARTH ELEMENTS.
100% STRATEGIC.
100% SUSTAINABLE.

INDUSTRY DRIVERS



EXPLOSIVE AI GROWTH

AI workloads are increasing exponentially, driving massive power demand for data centers and HPC facilities.



RISING ENERGY DEMAND

Data centers and advanced computing require reliable, 24/7 power to operate without interruption.



GRID STRESS & CONSTRAINTS

Aging infrastructure and rising demand are causing grid congestion, delays, and higher electricity costs.



SUSTAINABILITY MANDATES

Organizations face pressure to meet ESG goals, reduce carbon emissions, and achieve net-zero targets.



ENERGY SECURITY & RESILIENCE

Geopolitical instability and fuel price volatility highlight the need for energy independence and supply reliability.

BUILT FOR THE FUTURE.
DESIGNED FOR IMPACT.
READY FOR THE AI REVOLUTION.



CAPTURE
Solar energy captured by day



STORE
High-temperature heat stored (500°C - 1500°C)



DISPATCH
Stored heat converted to electricity



POWER
24/7 clean, dispatchable power

NO LITHIUM. NO RARE EARTHS. MAXIMUM ENERGY INDEPENDENCE.

GROWTH FACTORS



DATA CENTER EXPANSION

The global data center market is projected to grow from \$200B+ to \$400B+ by 2030.



AI & HPC INVESTMENTS

Trillions in investments in AI, cloud, and HPC infrastructure are accelerating globally.



CLEAN ENERGY ADOPTION

Solar and renewable energy adoption is accelerating worldwide, creating strong market tailwinds.



POLICY & INCENTIVES

Governments are offering incentives for clean energy, storage, and critical infrastructure.



TECHNOLOGY ADVANCEMENT

High-temperature thermal storage technology enables long-duration, cost-effective, and scalable energy solutions.

WHY PRO-FRGW LEADS THE FUTURE



100% CLEAN
ZERO EMISSIONS



ENERGY
INDEPENDENCE



LOWER COST
HIGHER VALUE



24/7 RELIABILITY
LONG-DURATION



SCALABLE & MODULAR
FUTURE-READY



NO LITHIUM
NO RARE EARTHS

MARKET GROWTH OUTLOOK

Solar Thermal Energy Storage Market (Global)



CAGR
25.7%
2024-2035

Source: Precedence Research, MarketsandMarkets



CAPTURING THE SUN.
STORING THE HEAT.
POWERING THE FUTURE.

PRO-FRGW Solar Heat Storage Batteries deliver high-temperature thermal energy storage without lithium and rare earth elements—providing a smart, secure, and sustainable energy solution for the AI era and beyond.

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PRO-FRGW
SOLAR HEAT STORAGE BATTERIES

KEY APPLICATIONS ACROSS INDUSTRIES

Delivering 24/7 Clean, Dispatchable Power with High-Temperature Solar Heat Storage Technology



AI DATA CENTERS



- 24/7 reliable power for non-stop operations
- Reduces grid dependency and energy costs
- Supports high-performance computing workloads

CLOUD & EDGE COMPUTING



- Provides clean backup power for cloud infrastructure
- Ensures uptime and business continuity
- Ideal for edge data centers in remote locations

INDUSTRIAL & MANUFACTURING



- Powers high-heat industrial processes
- Ensures energy reliability for production lines
- Reduces operational costs and emissions

UTILITY & GRID SUPPORT



- Supports grid stability and peak shaving
- Provides long-duration energy storage
- Enhances renewable integration

MINING & RESOURCES



- Delivers reliable power in off-grid and remote sites
- Reduces diesel consumption and operating costs
- Improves sustainability and energy security

OIL & GAS



- Provides reliable power for remote operations
- Supports drilling, processing and fluid electrification
- Reduces flaring and emissions

COMMERCIAL & BUSINESS PARKS



- Ensures energy reliability for critical facilities
- Lowers electricity costs and peak demand
- Supports ESG and sustainability goals

HIGHER EDUCATION & RESEARCH



- Powers labs, research facilities and campuses
- Supports clean energy initiatives
- Provides backup power for critical operations

HEALTHCARE FACILITIES



- Ensures uninterrupted power for critical systems
- Supports patient safety and care delivery
- Reduces energy costs and carbon footprint

GOVERNMENT & PUBLIC INFRASTRUCTURE



- Powers essential public services and infrastructure
- Enhances energy resilience and disaster preparedness
- Supports clean energy transition goals



HIGH-TEMPERATURE THERMAL STORAGE
500°C – 1500°C



24/7 CLEAN, DISPATCHABLE POWER



NO LITHIUM. NO RARE EARTH ELEMENTS.



SAFE, RELIABLE & LONG-DURATION ENERGY STORAGE



SCALABLE, MODULAR & FUTURE-READY



BUILT FOR A SUSTAINABLE FUTURE

CAPTURING THE SUN. STORING THE HEAT. POWERING THE FUTURE.

Advanced Heat Storage Battery
Solutions for a Sustainable Tomorrow.



PRO FRGW
RENEWABLE ENERGY

- Stores Heat Up to 1500°C
- 24/7 Dispatchable Energy
- Long Duration Energy Storage
- Clean, Safe, Sustainable.

OUR TEAM

EXPERIENCE. INNOVATION. COMMITMENT. POWERED BY GREAT PEOPLE.

Our leadership team brings together decades of experience in energy, engineering, and innovation to build a sustainable future.



PROJECTS ACROSS USA

POWERING AMERICA'S FUTURE

PRO-FRGW is delivering advanced heat storage and renewable energy solutions across the United States.



CASE STUDY

AI DATA CENTER POWERED BY PRO-FRGW

24/7 CLEAN ENERGY.
ZERO COMPROMISES.

- Reliable 24/7 Power
- Supports High-Density Workloads
- Sustainable & Scalable
- Lower Operational Costs

PRO FRGW
RENEWABLE ENERGY

01

02

03

04

OUR CLIENTS

TRUSTED BY INDUSTRY LEADERS WORLDWIDE

We partner with forward-thinking organizations committed to sustainability and innovation.



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OUR TECHNOLOGY

HEAT STORAGE BATTERY BUILT FOR A CLEANER FUTURE

- Stores Heat Up to 1500°C
- Long Duration Energy Storage
- 24/7 Dispatchable Energy
- Safe, Reliable, Sustainable.

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INDUSTRIAL APPLICATIONS

ENERGY SOLUTIONS FOR EVERY INDUSTRY



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SUSTAINABILITY

A GREENER PLANET. A BETTER TOMORROW.

PRO-FRGW is committed to reducing carbon emissions and building a sustainable energy future.

- No Lithium
- No Rare Earth Elements
- Low Environmental Impact
- 100% Renewable Compatible

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FEATURES & BENEFITS

WHY CHOOSE PRO-FRGW?

- High Temperature Heat Storage
- 24/7 Clean Energy
- Longer Life Cycle
- Scalable & Modular
- Lower Cost of Ownership
- Advanced Safety Standards
- Fast Deployment Anywhere
- Future-Ready Technology



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TOGETHER, WE CAN POWER A SUSTAINABLE FUTURE.

THANK YOU

Let's build a cleaner, smarter, and stronger tomorrow — together.

PRO FRGW
RENEWABLE ENERGY

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TRUSTED BY LEADERS. POWERING THEIR SUCCESS.

PRO-FRGW Solar Heat Storage Batteries deliver clean, reliable, and dispatchable energy that drives performance and sustainability.



CLIENTS WHO TRUST PRO-FRGW

PROVEN RESULTS
Delivering 24/7 clean, dispatchable energy with proven reliability.

SUSTAINABLE IMPACT
Helping clients achieve their net-zero goals and ESG commitments.

LOWER COSTS
Reducing energy costs and protecting against fuel price volatility.

ENERGY SECURITY
Reliable power when you need it—day or night, all year long.

SCALABLE SOLUTIONS
Flexible, modular systems built to scale with your growing needs.

AI DATA CENTERS



"PRO-FRGW gives us 24/7 clean power with the reliability our AI workloads demand. It's a game changer for sustainable growth."

— CTO, Nexus Data Centers

CLOUD SERVICE PROVIDERS



"Their heat storage solution ensures uninterrupted power for our global cloud operations while helping us meet our carbon goals."

— VP of Infrastructure, Skybound Cloud

INDUSTRIAL MANUFACTURERS



"PRO-FRGW's dispatchable renewable energy has stabilized our operations and significantly reduced our energy costs."

— Director of Operations, Titan Manufacturing

UTILITIES & ENERGY PROVIDERS



"The PRO-FRGW system strengthens our grid with clean, firm power that we can dispatch whenever our communities need it."

— Head of Generation, ClearGrid Energy

MINING & RESOURCES



"Operating in remote areas requires reliable power. PRO-FRGW delivers clean energy we can count on, 24/7."

— Energy Manager, Summit Resources

GOVERNMENT & PUBLIC SECTOR



"PRO-FRGW supports our sustainability initiatives and provides resilient, cost-effective energy for critical infrastructure."

— Sustainability Director, Greenfield County

PROUD TO POWER A SUSTAINABLE FUTURE TOGETHER



24/7
DISPATCHABLE POWER

100%
CLEAN & RENEWABLE

UP TO 1500°C
THERMAL STORAGE

RELIABLE. RESILIENT.
BUILT FOR THE FUTURE.

LOWER EMISSIONS.
BETTER TOMORROW.



PRO-FRGW

SOLAR HEAT STORAGE BATTERIES

STRATEGIC PLANNING. SMART MANAGEMENT.
POWERFUL MARKETING. LASTING IMPACT.
 Driving 24/7 Clean Energy for AI Data Centers.



OUR MISSION

Delivering 24/7 dispatchable renewable energy through advanced solar heat storage batteries for AI data centers and a sustainable future.

STRATEGIC ROADMAP



VALUE PROPOSITION

- 24/7 Dispatchable Power
- Up to 1500°C Thermal Storage
- Safe, Reliable & Scalable
- Long-Duration Energy Storage
- Zero Carbon Emissions

POWERING THE AI REVOLUTION WITH CLEAN, DISPATCHABLE ENERGY.



MARKET GROWTH

AI DATA CENTER ENERGY DEMAND IS GROWING.
 PRO-FRGW DELIVERS THE SOLUTION.

MARKETING STRATEGY

- BRAND POSITIONING
- PARTNERSHIPS
- DIGITAL OUTREACH
- THOUGHT LEADERSHIP
- CUSTOMER ENGAGEMENT

AI DATA CENTER ENERGY SOLUTIONS



STRATEGIC PLANNING

- Market Analysis
- Technology Roadmap
- Growth Strategy
- Long-Term Vision



MANAGEMENT EXCELLENCE

- Project Management
- Operational Efficiency
- Risk Management
- Performance Optimization



MARKETING LEADERSHIP

- Brand Strategy
- Market Positioning
- Digital Marketing
- Global Outreach



PARTNERSHIPS & GROWTH

- Strategic Partnerships
- Investor Relations
- Business Development
- Ecosystem Expansion



DELIVERING IMPACT

- 24/7 Clean Energy
- For AI Data Centers
- Sustainable Future
- Global Impact

PRO-FRGW

SOLAR HEAT STORAGE BATTERIES

Engineering the Future. Powering AI Data Centers.



PRO-FRGW

HEAT STORAGE BATTERY

- #### ENGINEERING EXCELLENCE
- THERMAL ENGINEERING
 - MATERIALS INNOVATION
 - SYSTEM INTEGRATION
 - PERFORMANCE OPTIMIZATION
 - SUSTAINABLE IMPACT





PRO-FRGW

SOLAR HEAT STORAGE BATTERIES

INSTALLATION TEAM

POWERING THE FUTURE. TOGETHER.

Safe. Reliable. Efficient. Built for 24/7 Clean Energy.



PRO-FRGW
SOLAR HEAT STORAGE BATTERY

- UP TO 1500°C THERMAL STORAGE
- SAFE, RELIABLE & SCALABLE
- LONG-DURATION ENERGY STORAGE

- SITE PREPARATION
- EQUIPMENT DELIVERY
- SYSTEM INSTALLATION
- PIPING & INTEGRATION
- ELECTRICAL CONNECTIONS
- TESTING & COMMISSIONING
- SAFETY ALWAYS

CLEAN RENEWABLE ENERGY

ADVANCED THERMAL STORAGE

24/7 DISPATCHABLE POWER

SAFE RELIABLE SCALABLE

ZERO CARBON SUSTAINABLE FUTURE

POWERING AI DATA CENTERS



HEAT STORAGE BATTERIES TO SUPPLY 24 HOURS ELECTRICITY TO AI DATA CENTERS

- 24/7 POWER
- HEAT UP TO 1500°C
- RELIABLE & SECURE
- CLEAN & SUSTAINABLE



AI DATA CENTER

24 HOURS CONTINUOUS POWER

POWERING THE AI REVOLUTION

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FACEBOOK COVER



HEAT STORAGE BATTERIES TO SUPPLY 24 HOURS ELECTRICITY TO AI DATA CENTERS

- 24/7 POWER
- HEAT UP TO 1500°C
- RELIABLE & SECURE
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24 HOURS CONTINUOUS POWER

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INSTAGRAM POST



HEAT STORAGE BATTERIES TO SUPPLY 24 HOURS ELECTRICITY TO AI DATA CENTERS

- 24/7 POWER
- HEAT UP TO 1500°C
- RELIABLE & SECURE
- CLEAN & SUSTAINABLE



POWERING THE AI REVOLUTION

LINKEDIN BANNER



POWERING AI DATA CENTERS WITH 24/7 CLEAN ENERGY

HEAT STORAGE BATTERIES DELIVERING RELIABLE, SUSTAINABLE & CONTINUOUS POWER



TWITTER / X BANNER



24 HOURS. ZERO INTERRUPTION. HEAT STORAGE BATTERIES POWERING AI DATA CENTERS

- 24/7 POWER
- HEAT UP TO 1500°C
- RELIABLE & SECURE
- CLEAN & SUSTAINABLE



WEBSITE BANNER



HEAT STORAGE BATTERIES TO SUPPLY 24 HOURS ELECTRICITY TO AI DATA CENTERS

CLEAN. RELIABLE. SUSTAINABLE.

- 24/7 POWER
- HEAT UP TO 1500°C
- RELIABLE & SECURE
- CLEAN & SUSTAINABLE



24 HOURS CONTINUOUS POWER

SOCIAL MEDIA ICONS





ENGINEERING & DESIGN SERVICES

INNOVATIVE SOLUTIONS.
ENGINEERED FOR PERFORMANCE.



CUSTOM ENGINEERING

Tailored solutions
for your specific
energy needs.



ADVANCED DESIGN

Cutting-edge
modeling and
simulation.



RELIABLE & EFFICIENT

Optimized for
safety, efficiency
and long-term
performance.



EXPERT SUPPORT

From concept to
commissioning
and beyond.





OPERATIONS & SUPPORT

RELIABLE PERFORMANCE.
MAXIMUM UPTIME.



24/7 MONITORING

Continuous remote monitoring for peak performance and early issue detection.



PREVENTIVE MAINTENANCE

Proactive maintenance programs to prevent downtime and extend system life.



RAPID RESPONSE

Expert support and fast response to minimize disruption and maximize uptime.



EXPERT SUPPORT

Dedicated team of specialists ensuring reliable operations every step of the way.





PROJECT DEVELOPMENT

END-TO-END DEVELOPMENT.
BUILT FOR REAL-WORLD IMPACT.



FEASIBILITY STUDIES

Data-driven analysis to validate opportunity and performance.



PLANNING & DESIGN

Optimized system designs tailored to your goals and site conditions.



PERMITTING & APPROVALS

Navigate regulations with confidence. We handle the paperwork.



FINANCIAL STRUCTURING

Bankable models and strategic partnerships for project success.



EXECUTION PLANNING

Turnkey execution roadmaps that ensure efficiency, safety & results.



RESEARCH & DEVELOPMENT

INNOVATING TODAY.
POWERING A SUSTAINABLE TOMORROW.

The PRO-FRGW R&D team drives innovation in thermal energy storage and CSP technologies to deliver efficient, reliable, and scalable clean energy solutions.



INNOVATE

Developing next-generation thermal storage and Fresnel Lens technologies for higher efficiency and lower cost.



OPTIMIZE

Advanced modeling, simulation, and system optimization to maximize performance, reliability, and durability.



ADVANCE

Pioneering high-temperature materials, heat transfer systems, and intelligent controls for CSP and storage solutions.



VALIDATE

Rigorous testing and prototyping in our in-house labs and pilot facilities to ensure real-world performance.



COLLABORATE

Partnering with universities, research institutions, and industry leaders to accelerate clean energy innovation.



OUR MISSION

To engineer innovative solutions that unlock the full potential of solar energy for a cleaner, more resilient future.



DATA-DRIVEN INSIGHTS



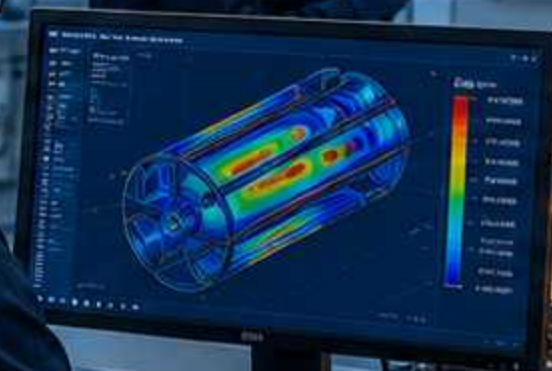
CONTINUOUS IMPROVEMENT



SUSTAINABLE IMPACT



BUILT FOR THE FUTURE



R&D FOCUS AREAS

- High-Temperature Thermal Storage
- Advanced Materials & Heat Transfer
- Optical Systems & Concentration
- System Integration & Controls
- Efficiency & Performance Enhancement



CONSULTING & ADVISORY

EXPERT INSIGHT. SMART STRATEGY.
SUSTAINABLE ENERGY SOLUTIONS.



MARKET & TECHNOLOGY ANALYSIS

In-depth market research and technology evaluation to identify the best opportunities.



PROJECT FEASIBILITY ASSESSMENT

Technical, financial, and environmental feasibility studies to minimize risk and maximize viability.



SYSTEM OPTIMIZATION

Performance modeling and optimization for maximum efficiency and reliable 24/7 operation.



THERMAL STORAGE STRATEGY

Expert guidance on heat storage battery design, integration, and long-duration energy solutions.



RISK & COMPLIANCE MANAGEMENT

Regulatory support, risk assessments, and compliance strategies for safe and successful deployment.



STRATEGIC ADVISORY

Long-term roadmaps, investment strategies, and partnership advisory for sustainable growth.



PARTNER WITH
PRO-FRGW

**TO POWER A
CLEANER, MORE
SUSTAINABLE
FUTURE.**



CLEAN ENERGY EXPERTISE



DATA-DRIVEN DECISIONS



TAILORED SOLUTIONS



SUSTAINABLE IMPACT



INTEGRATION & COMMISSIONING

SEAMLESS INTEGRATION. OPTIMAL PERFORMANCE. READY TO DELIVER.



SYSTEM INTEGRATION

Seamless integration of Fresnel lens, thermal storage, and balance of plant systems.



PRE-COMMISSIONING

Rigorous testing and validation of all components and subsystems.



COMMISSIONING

End-to-end testing and calibration to ensure optimal system performance.



PERFORMANCE VERIFICATION

Real-time monitoring and data validation to confirm efficiency, safety, and reliability.



SAFETY & COMPLIANCE

Verification of safety standards and regulatory compliance before handover.



OPERATIONAL HANDOVER

Training, documentation, and support for smooth transition to operations team.



INTEGRATED SOLUTIONS. RELIABLE PERFORMANCE. MAXIMUM UPTIME.

ENSURE THE MAINTENANCE & OPERATIONS

MAXIMIZE PERFORMANCE. ENSURE RELIABILITY. DELIVER 24/7 CLEAN POWER.



PRO-FRGW provides comprehensive Maintenance & Operations (M&O) services to ensure your thermal energy systems operate safely, efficiently, and reliably—24 hours a day, 7 days a week.



OUR MAINTENANCE & OPERATIONS SERVICES

- 

PREVENTIVE MAINTENANCE
Routine inspections, testing, and servicing to prevent unexpected issues and extend equipment life.
- 

PREDICTIVE MONITORING
Real-time condition monitoring and AI-powered analytics to predict issues before they occur.
- 

PERFORMANCE OPTIMIZATION
Continuously optimize system efficiency, thermal storage performance, and energy dispatch.
- 

24/7 REMOTE MONITORING
Our operations center monitors your system 24/7 to ensure maximum uptime and rapid response.
- 

RAPID RESPONSE SUPPORT
Fast expert support and on-site service to minimize downtime and ensure business continuity.
- 

SCHEDULED OVERHAULS
Planned maintenance and component refurbishments to ensure long-term reliability.
- 

COMPLIANCE & SAFETY MANAGEMENT
Ensure all operations meet safety, environmental, and regulatory standards.

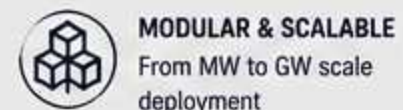
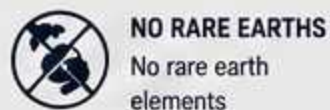
KEY AREAS WE MAINTAIN

-  **FRESNEL LENS & CSP SYSTEMS**
-  **THERMAL STORAGE BATTERIES**
-  **POWER CONVERSION SYSTEMS**
-  **ELECTRICAL & CONTROL SYSTEMS**
-  **PIPING, VALVES & THERMAL SYSTEMS**
-  **INFRASTRUCTURE & FACILITIES**

THE BENEFITS OF PRO-FRGW MAINTENANCE & OPERATIONS

-  **MAXIMIZED UPTIME**
Keep your system running at peak performance.
-  **LOWER OPERATING COSTS**
Reduce unplanned downtime and maintenance expenses.
-  **HIGHER EFFICIENCY**
Optimize energy output and storage performance.
-  **EXTENDED ASSET LIFE**
Proper care ensures long-term reliability and durability.
-  **SUSTAINABLE OPERATIONS**
Support clean energy goals with reliable performance.
-  **EXPERT SUPPORT**
Access to experienced engineers and technical experts.

PRO-FRGW is committed to safe, reliable, and efficient operations
POWERING AMERICA'S FUTURE – 24/7.





CAPTURE RENEWABLE ENERGY

Harvest the power of the sun.
Store it. Use it. Anytime.



CAPTURE

Advanced Fresnel Lens technology concentrates sunlight with precision.



SUNLIGHT CAPTURING

Fresnel lenses track and focus sunlight to maximize energy capture and thermal performance.

CLEAN ENERGY.

**CAPTURED TODAY.
POWERED TOMORROW.**

SUNLIGHT CAPTURING PROCESS

- 1 Sunlight is collected by precision-engineered Fresnel Lenses.
- 2 Lenses focus and concentrate sunlight onto the receiver.
- 3 Concentrated heat is captured by the receiver and transferred to the heat transfer system.
- 4 Thermal energy is directed for immediate use or stored for on-demand availability.



PRO-FRGW
HEAT STORAGE BATTERY

STORE HIGH-TEMPERATURE HEAT



PRO-FRGW Thermal Storage Batteries store renewable energy as high-temperature heat for 24/7 dispatchable power.



CAPTURE
Solar energy captured by Fresnel Lens & CSP



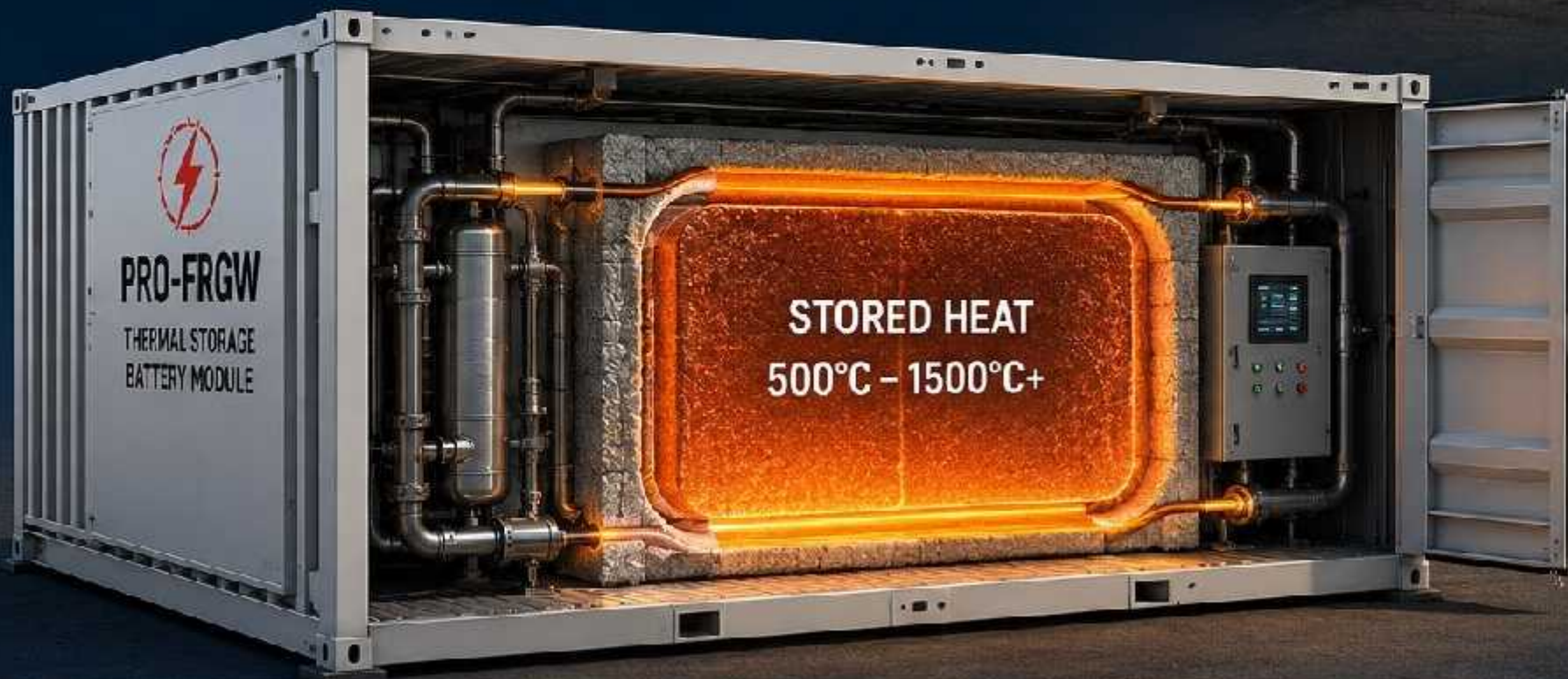
CONCENTRATE
Sunlight is concentrated to generate high-temperature heat



STORE
Heat is stored in PRO-FRGW Thermal Storage Batteries (500°C – 1500°C+)



DISPATCH
Stored heat is converted to power or industrial heat anytime, day or night



WHY STORE HEAT?



LONG DURATION
Stores energy for hours to multi-day durations



EXTREME TEMPERATURES
500°C to 1500°C+ enables high energy density



SAFE & STABLE
Non-flammable materials with proven reliability



SUSTAINABLE
No lithium, no rare earth elements, environmentally responsible



MODULAR & SCALABLE
Containerized systems for rapid deployment from MW to GW scale



DISPATCHABLE 24/7
Power when you need it. Day or night.



IMPROVE GRID RELIABILITY
Supports peak demand, stabilizes the grid.



LOWER OPERATING COSTS
Store when energy is abundant. Use when it's needed.



POWERING AMERICA'S FUTURE
Clean. Reliable. Sustainable. Built for the AI Era.

DELIVER DISPATCHABLE POWER 24/7

STORE HIGH-TEMPERATURE HEAT. DELIVER CLEAN, RELIABLE POWER ANYTIME.



FRESNEL LENS & CSP FIELD



PRO-FRGW THERMAL STORAGE BATTERY (500°C - 1500°C+)

POWER CONVERSION SYSTEM



AI DATA CENTER

- AI DATA CENTERS**
24/7 POWER
- INDUSTRIAL FACILITIES**
- UTILITY GRID SUPPORT**
- COMMERCIAL & INSTITUTIONAL**

24/7 DISPATCHABLE POWER
Delivering reliable energy anytime, day or night.

ENERGY SECURITY
Reduce dependence on fossil fuels and the grid.

CLEAN & SUSTAINABLE
Zero combustion. Near-zero emissions.

COST EFFECTIVE
Lower operating costs and long-term energy savings.

LONG DURATION STORAGE
10+ hours to multi-day storage capability.

BUILT FOR AMERICA. POWERING AMERICA.
Clean Energy. American Innovation. American Jobs.

NO LITHIUM
No lithium batteries

NO RARE EARTHS
No rare earth elements

HIGH TEMPERATURE
500°C - 1500°C+ operating range

MODULAR & SCALABLE
From MW to GW scale deployment

SAFE & RELIABLE
Non-flammable. Built for industrial performance.



PRO FRGW
RENEWABLE ENERGY

HEAT STORAGE BATTERY

RENEWABLE STORAGE & DISPATCH

- Store Heat up to 1200°C
- 24/7 Dispatchable Energy
- Long Duration Energy Storage
- Close-to-Site, Sustainable

CONTACT US

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HEAT STORAGE BATTERY

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Stores Heat Up to 1500°C



24/7 Dispatchable Energy



Long Duration Energy Storage



Clean, Safe, Sustainable.

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PRO FRGW
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50 UNITS HEAT STORAGE BATTERY PROJECT

BUILDING THE FUTURE OF SUSTAINABLE ENERGY

- 24/7 RELIABLE ENERGY
- CLEAN ENERGY ZERO EMISSIONS
- SCALABLE & EFFICIENT
- BUILT FOR THE FUTURE



50

HEAT STORAGE BATTERY UNITS INSTALLED

100+ MWh

THERMAL ENERGY STORAGE CAPACITY

24/7

CONTINUOUS & RELIABLE ENERGY SUPPLY

ZERO

EMISSIONS CLEAN ENERGY

AI

POWERING NEXT-GEN INFRASTRUCTURE



INDUSTRIAL APPLICATIONS



AI DATA CENTERS



ENERGY SECURITY



SUSTAINABLE FUTURE

