

Flare Gas Recovery and Monetization Solution

Zero flaring eliminates the routine burning of excess gas during oil extraction. Technologies like gas recovery systems capture and reuse this gas efficiently. This reduces emissions while turning waste into valuable energy resources. It supports a cleaner, more sustainable approach to energy production.

Turning Wasted Gas into Power

Utthunga delivers integrated flare gas recovery solutions that convert stranded and wasted gas into:



Electricity
Generation



LNG &
Synthetic Fuels



Crypto Mining & Digital
Compute Revenue

Our modular Energy-to-Compute (E2C) platform enables rapid deployment, scalable monetization, ESG compliance, and measurable emission reduction.

Proven Performance

Metric	Performance
Annual Revenue Potential	\$1M+ per 2.4 MW block
System Uptime	97.8% rolling average
Emission Reduction	>85% vs open flaring
Deployment Timeline	Operational within weeks
Gas Handling Capacity	5.6 MMSCFD per modular package

Monetization Solutions

Flare-to-Power (Electricity Generation)

Convert flare gas into reliable electrical power for:

- Industrial operations
- Remote/off-grid facilities
- Microgrids
- Grid export
- Crypto mining

Key Features:

- 250–500 kW modular generator units
- Scalable architecture
- EdgeAI load optimization
- Grid synchronization capability
- Remote monitoring (SCADA integration)



Flare-to-LNG / GTL (Fuel Production)

Transform associated gas into valuable fuels and chemicals:

Output Products:

- LNG
- Synthetic diesel
- Naphtha
- Methanol
- Synthetic lubricants

Key Features:

- Modular deployment
- High-purity gas processing
- Flexible scaling
- Strong monetization potential



Flare-to-Data Center (Digital Compute)

Convert flare gas into digital compute revenue:

Platform Highlights:

- Bitmain Antminer & GPU integration
- Containerized data centers
- Immersion and air-cooling systems
- Mining orchestration software
- Remote operations

Revenue Potential:

- \$750K–\$1M+ annual profit per 2.4 MW block
- ~650 crypto miners per deployment
- 71,500 TH/s processing capacity



Execution & Delivery

End-to-End Services

- Feasibility studies
- Gas composition analysis
- Site surveys and engineering
- Economic modeling (IRR, NPV)
- ESG and carbon valuation
- Regulatory and permitting support

Turnkey EPC Services

- Engineering, Procurement & Construction
- Modular fabrication and installation
- SCADA and cybersecurity systems
- Commissioning and startup
- Operations and predictive maintenance

Five-Phase Delivery Model



Decision Readiness:
Strategy, ESG
roadmap,
commercialization.



Design Readiness:
Gas validation,
engineering
concepts.



**Execution
Readiness:**
FEED engineering,
cost optimization.



Asset Creation:
EPC execution,
installation,
commissioning.



Asset Performance :
Monitoring,
maintenance,
ESG reporting.

Success Stories

Flare Gas to Crypto Mining (USA)

- Gas consumption: 0.7–0.9 MMSCFD
- ~650 mining units deployed
- Annual profit up to \$965K
- 97.8% uptime
- Continuous flare elimination

Modular Flare Gas Recovery Systems

- ~5 MMSCFD capacity per train
- Multi-site deployment
- Improved efficiency and lower emissions

Flare Gas to CNG

- Modular skid-based solution
- Off-grid operation capability
- Rapid deployment
- Transportable fuel generation

Commercial Models

- EPC (Engineering, Procurement & Construction)
- BOO (Build-Own-Operate)
- Joint Ventures
- Revenue-sharing partnerships

Profit Scenario (2.4 Mw Block)

- Up to \$965,675 annual profit at low energy cost
- Flexible revenue based on energy pricing

What sets Utthunga Apart ?

- Rapid modular deployment
- Proven multi-site operational success
- Integrated EPC + digital infrastructure expertise
- Bankable commercial structures
- ESG-compliant flare reduction
- Scalable energy-to-compute platform

Contact Us

Utthunga — Flare Gas Recovery Solutions
Transforming waste gas into power.

Get in touch to discuss your project,
feasibility study, or deployment strategy.