

Discover the latest innovations in gas powered equipment to maximise the utilisation of flared or stranded gases. Learn more about our expanded service capability and range of solutions to monetarise waste gas streams.



Nearly 150 billion cubic metres of natural gas are flared into the atmosphere each year



The African continent's current annual electricity consumption is 750 billion kWh of electricity



Driving flare gas reduction for a low-carbon future

# Turn your waste gas into power

ScanTech Offshore can help you generate power from Associated Petroleum Gas (APG) which will reduce your carbon footprint and can be used for your own needs to reduce your operating costs, or to monetise waste gas streams opportunities when sold to a third party.

## What is gas flaring?

Gas flaring is the burning of natural gas associated with oil extraction. The 160-year-old industry practice of wastefully burning - as opposed to using or conserving - associated gas is a by-product of oil production which takes place due to a range of issues, from market, technical and economic constraints, to a lack of appropriate regulation and political will. Flaring is a waste of valuable natural resources that should be conserved or used for productive purposes, such as generating power.

## What are the environmental impacts of gas flaring?

Launched in 2015, the Zero Routine Flaring by 2030 (ZRF) initiative commits governments and oil companies, to end routine flaring no later than 2030. The initiative is designed to facilitate cooperation between all stakeholders so that solutions to ending routine gas flaring can be identified and implemented.

The flaring of gas contributes to climate change and impacts the environment through the emission of CO<sub>2</sub>, black carbon and other pollutants. It wastes a valuable energy resource that could be used to advance the sustainable development of producing countries.

According to the Intergovernmental Panel on Climate Change, methane is over 80 times more powerful than carbon dioxide as a warming gas on a 20-year timeframe.

## How can we reduce the amount of gas being flared?

Oil producers face significant challenges capturing, storing, transporting, and distributing associated gas, and the cost of ending all routine flaring could be as much as \$100 billion. Oil operators can re-inject associated gas back into the ground or build the infrastructure needed to capture, store, and transport the associated gas to market. Meanwhile, governments can put in place effective regulations and policies to incentivise and encourage gas flaring reduction.

## Top six drivers of growth in the flare to power market

1. Cost reduction
2. Global recognition
3. Reducing environmental harms
4. Compliance with environmental regulations and avoidance of fines
5. Gas monetisation opportunities
6. Expanding exploration possibilities and fostering innovation





## Gas to power solutions

ScanTech Offshore is making a transition to cleaner energy technologies by offering a suite of gas-powered equipment to maximise the utilisation of flared or stranded gases. Learn more about our expanded service capability and range of solutions to monetarise waste gas stream opportunities.

We provide equipment and services for gas to power, gas compression services and compressed natural gas (CNG) systems.

Our engineering department are developing a gas to liquid solution utilising APG with the aim of bringing to market a proven system at a price point that makes sense for a positive financial investment decision.

## Gas engine generators

In addition to gas turbine generators, we provide traditional gas engine generators from 500kW to 3.5MW.

Many options provided in modular configuration allow upscaling or downscaling. We can engineer and deliver bespoke solutions to match your individual needs and provide full turnkey solutions, including 24/7 operation and maintenance support for industry leading reliability and the highest safety standards.

- From 500kW to 3.5MW
- Bespoke solutions
- Full turnkey solutions
- Highest safety standards
- Industry leading reliability
- 24/7 operation / maintenance





## Gas turbine generators

We can help you monetarise flared gas by generating power, reducing your operating costs, creating a new revenue stream and reducing your carbon footprint, delivering significant savings through optimised heat and power generation.

Gas turbines accept a wide range of gas specifications including H<sub>2</sub>S, and are ideally suited to APG waste streams.

With a range of gas turbine generators from 1MW to 12MW in modular configuration for upscaling or downscaling, we can engineer and deliver bespoke solutions to match your individual needs and provide full turnkey solutions via local engineering, procurement and construction (EPC) partners, with industry leading reliability and the highest safety standards.

### Up to 30 percent lower lifetime costs

- From 1MW to 12MW
- Bespoke solution
- Full turnkey solutions
- Industry leading reliability
- Highest safety standards

### Major benefits of gas turbines

- Lower operational cost
- Efficient and durable
- Facilitates distributed power generation
- Environmental friendly
- High operational speed & low lubrication cost

