



OILFIELD SOLUTIONS

ADVANCED WELLSITE POWER



**WELL-SITE
POWER
REDEFINED**

MGB POWERCELL™ SYSTEM

Beat The High Cost of Hydraulic Fracturing Operations

Count on MGB™ Oilfield Solutions to deliver innovation, based on decades of oilfield experience.

Hydraulic fracturing has become increasingly complex over the past several years. The demands placed on the equipment and personnel has increased exponentially, along with the rising costs of owning, maintaining and operating hydraulic fracturing fleets.

Increasing efficiencies and lowering operating costs have always been a target of hydraulic fracturing service providers. Reducing the total number of assets required (CAPEX), lowering the total cost of ownership (OPEX), reducing the number of personnel on location, reducing HSE exposure, minimizing location footprint, and being environmentally sound are all challenges we collectively face today.

While there have been significant gains in the downhole completions space, the surface equipment has remained relatively unchanged — until now.

Reduce Capital Costs

By eliminating the need to couple tractors with the pressure pumps at the frac site, you are able to reduce the capital expenditures of buying new tractors.

That also removes capital expenses of maintenance and spare parts storage facilities for the tractors.

Power Your Frac Site for Less

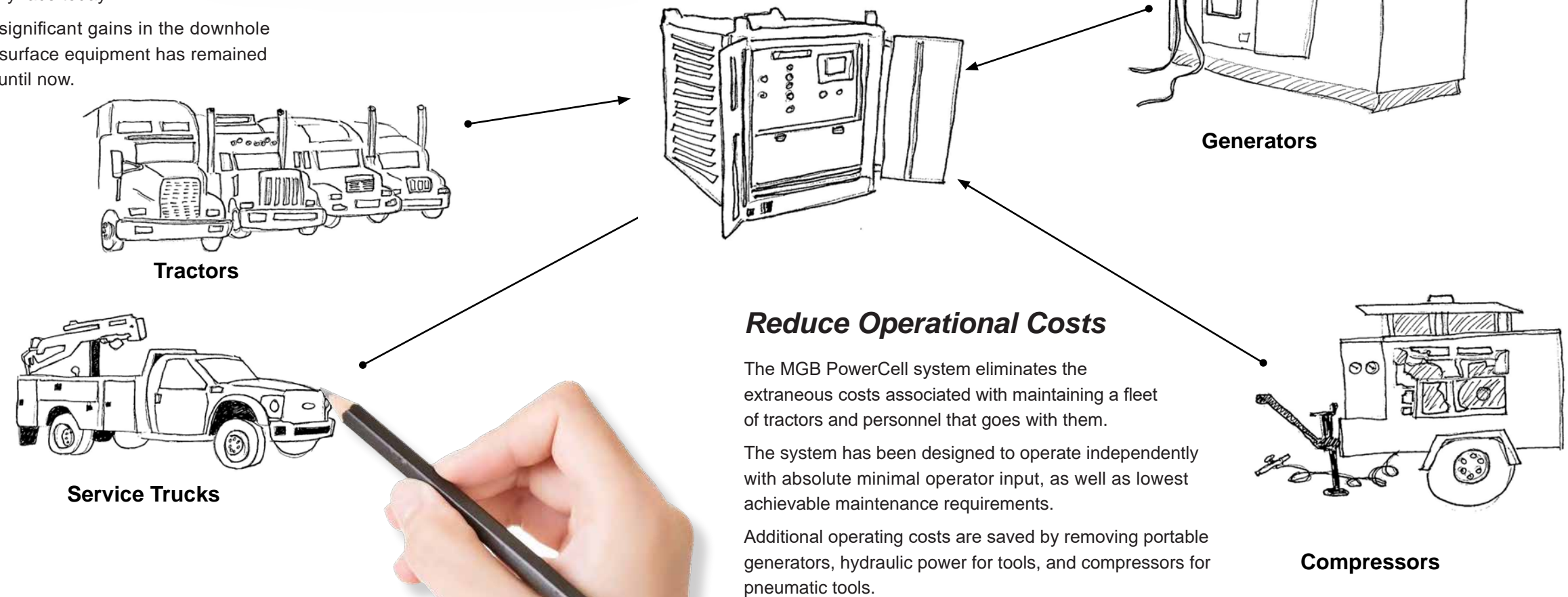
The MGB™ PowerCell System has been designed from the ground up, using innovative design features that truly address the challenges the hydraulic fracturing service providers endure today. It allows you to use the system effectively in the field, and ultimately, lower your capital expenditures (CAPEX) and operating expenditures (OPEX).

All three delivery platforms (hydraulic, electrical and pneumatic) have been designed to operate seamlessly and provide you with a highly economical, user friendly and reliable platform, with expanded redundancy benefits.

The use of “smart technology” and telemetry within the various systems further enhance the maintainability and operability of the power system, and give you not only field-viewing capabilities, but full remote-viewing capabilities including remote diagnostics, location tracking, and performance monitoring.

MGB POWERCELL™ SYSTEM

Reduces auxiliary equipment costs in four ways



Reduce Operational Costs

The MGB PowerCell system eliminates the extraneous costs associated with maintaining a fleet of tractors and personnel that goes with them.

The system has been designed to operate independently with absolute minimal operator input, as well as lowest achievable maintenance requirements.

Additional operating costs are saved by removing portable generators, hydraulic power for tools, and compressors for pneumatic tools.

The Future of Wellsite Power

The MGB PowerCell system adds to your bottom line by cutting both capital and operational expenses. The three core features of the system provide you with a highly flexible system that can very easily be field adapted to suit your changing requirements.

The core features of the power system are:

Hydraulic Power

- Provides remote start capabilities to multiple hydraulic fracturing pumps simultaneously, thus eliminating the need for tractors in the field, as well as multiple equipment operators to start frac pumps, as typically done today. Another benefit is that no personnel are required to enter the red-zone during operations.

Electric Power

- Provides all of the electrical requirements at the well-site. This includes powering the data van, providing electrical power to lighting plants and any additional electrical requirements (electrical tools, welding machines, etc.), all from one system, eliminating the need to manage multiple assets on location (light plants, gen sets, etc.)

Pneumatic Power

- Provides pneumatic power to handle most well-site requirements, from pneumatic tools used by mechanics, specialized pneumatic tools used on wellheads, wireline applications, etc., provides general air on the well site, thus eliminating need for a mechanics truck, or rental compressor.

Increase employee safety by reducing personnel exposure to "red zone" hazardous or high-risk areas.

The MGB PowerCell System

Benefits

- Reduce capital expenditures
- Decrease the total number of assets
- Reduce maintenance facilities
- Reduce maintenance personnel
- Free up personnel to work on primary equipment
- Decrease time on DOT compliance for tractors
- Lower number of commercial drivers (CDL Drivers)
- Reduce tractor spare parts inventory
- Reduce tractors fuel usage from excessive idle times
- Decrease maintenance costs of tractors
- Decrease wasted fuel from excessive idle times on frac pumps
- Provide redundancy (true back-up) options in the field, lowering Non-Productive Time (NPT)
- Increase environmental stewardship
- Reduce rental costs for lighting plants
- Lower number of personnel to operate small engines
- Reduce time on small engine refueling
- Redirect personnel to primary equipment from small engine maintenance
- Eliminate rental generator sets for data van primary or back up power
- Eliminate costs and complexity for redundant power options for sand-handling equipment
- Reduce HSE risks without personnel having to refuel equipment at the well-site
- Remove tasks that put personnel in the red zone
- Decrease personnel demands required to start frac pumps

WHAT OUR CUSTOMERS ARE SAYING

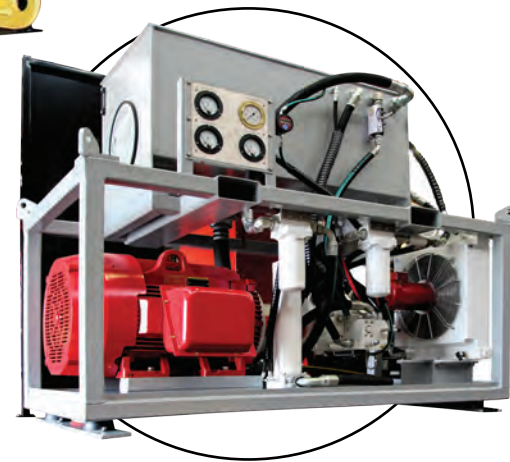
“ A recent client indicated savings in excess of 20,000 gallons of clean diesel fuel per month with this system. ”

MGB POWERCELL™ SYSTEM

Optimizing Your Frac Site



One system efficiently provides hydraulic, electrical, and pneumatic power systems for your entire wellsite.



The hydraulic delivery platform has been rigorously designed to accommodate the following:

- Start up to four frac pumps remotely at the same time, with just the push of a button
- Adjustable hydraulic circuits to provide primary or back up hydraulic power to run sand handling equipment, such as sand kings, t-belts etc.
- Smart technology to monitor hydraulic system performance and hydraulic oil condition
- Provides up to 3500 psi at 75 gpm



The system can power all the lights and the control building for the entire wellsite. Plus, it provides backup power for auxiliary electrical needs.



The pneumatic, air-delivery platform design eliminates truck carried compressors for pneumatic tools and allows end-user field options not typically available today:

- General purpose compressed air across the wellsite
- Adjustable air pressure and air flow to power specialized pneumatic tools at wellsite
- Optional lubricated air circuit when required for specialized pneumatic tools
- Provide air to auxiliary systems used at the wellsite, such as a wireline unit, BOP control unit (koomey unit), wellhead valves and greasing tools, etc.
- Provides up to 150 psi at 48 cfm



The electrical power and distribution delivery platform has been designed with reliability and flexibility in mind, allowing the following configuration:

- One dedicated 240V, 60Hz, 50 AMP circuit to provide primary power to the data van
- Two 240V circuits to power electrical tools such as welding machines
- Nine 120V outlets to power lighting towers or any other 120V requirements



Local and remote-control options remove personnel from high-risk areas. System includes built-in telemetry, allowing you to remotely monitor system performance via wireless network, cell, and/or satellite service.

Tractor and Auxiliary Asset Replacement Technology

About Us



OILFIELD SOLUTIONS

We are an engineering company aimed at redefining the operations of the pressure pumping industry. Our unwavering goal is to deliver best-in-class equipment with true, lowest total cost of ownership.

The designs of our solutions are not merely supplementary. Detailed equipment definition and full ground-up equipment design are essential for making frac sites as efficient and safe as possible. Each new product is designed from the bottom up to ensure that nothing is overlooked. Small changes require multiple layers of technology to match and support the design change. Our approach details each of those layers for fully synergistic development.

The solutions come with a **Total Life Cycle Management System** to assure your investment pays you dividends well into the future.



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