

We understand, this is your factory floor.  
We recognize that your world is different.

# Schneider Electric pumping solutions for irrigation, oil and gas



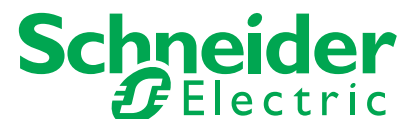
We understand that in the **irrigation** or **oil and gas industries**, your factory floor might be 200 miles away. Beyond power and electricity, you need solutions that focus on you and your **specific pumping application** needs.



## Schneider Electric adds value to your business with:

- The most complete, dependable and durable pump panel product offering available, including NEMA and IEC style motor starters (both full-voltage and reduced-voltage versions); all housed in rugged NEMA 3R outdoor enclosures
- A complete line of enclosed drives and soft starts, for applications where power quality and energy management are of great concern
- Class 10 overload relays for submersible pumps and Class 20 overload relays for general-purpose motors specifically designed for harsh environments
- Easily serviceable panels with extra space to allow for late adaptation or additional accessories, and a white, reflective back to make field installation and wiring simple where lighting conditions may not be ideal
- Both Simplex and Duplex versions for multiple pump control
- Service entrance rated solutions for pump panels, soft starts and drives that eliminate the need for separate disconnect and protective devices and reduce installation time — just one part is all you need
- Solid-state overload relays that provide precise protection to reduce nuisance tripping and help eliminate downtime, and a rubber boot to prevent contamination from dirty, dusty environments
- Optional remote monitoring capabilities of voltage or current abnormalities that can immediately alert you to a problem and help you quickly and efficiently bring your system back online
- A short circuit rating up to 100,000 A at 480 volts and your choice of either circuit breakers or fuses
- Reliable products that are simple to use, maintain and service
- We have it all in one place, readily available, stocked locally and at a competitive price
- Start-up and troubleshooting support around the globe

Make the most of your energy<sup>SM</sup>





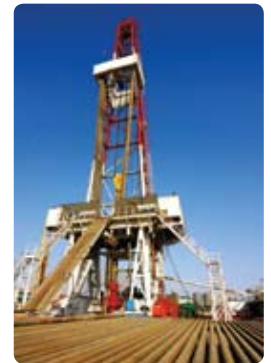
When you're concerned about energy efficiency, controls functionality, or service and support, **Schneider Electric has resources available to help.**

As energy efficiency becomes more important in pumping applications, Schneider Electric is on the leading edge of solutions, from variable frequency drives to power monitoring/power management systems. Our targeted solutions help optimize the energy efficiency of your application.

Our OEM Technology and Solutions Center (TASC) offers extensive expertise in the pump industry to assist OEMs with control systems design, while optimizing both control system architectures and product selection.

We offer an extensive distributor network that is well trained and easily accessible to ensure readily-available product and technical support worldwide.

Schneider Electric has the most comprehensive product solution for the irrigation, oil and gas industries — from the pump OEM to the distribution channel, we strive to provide a scalable solution for energy-efficient pumping applications.



## A customer's challenge

An **irrigation pump packager** needed to develop a cost-effective solution to replace their customer's current diesel-driven pump system. Escalating fuel costs, environmental regulations and utility incentives are driving the switch to electrical pumps. The new solution needed to contain a pump, motor and motor control, and that is easy to install at a minimal investment. The pump packager also needed something simple, effective, reliable and serviceable on site.

### The Schneider Electric solution

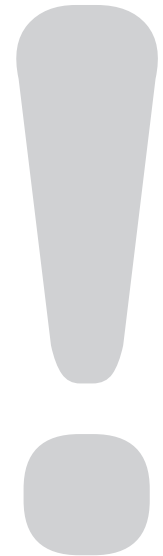
- We provided a service entrance rated pump panel with extra panel space, allowing the pump packager or its customer to modify the panel in the field and for future needs. The service entrance rating also ensured that the panel was ready to connect directly to the local power source without any additional components needed.
- With only one part needed, the pump packager was able to switch its customer over from a diesel-driven pump to an electric pump, maximizing simplicity and minimizing extra components, installation time and cost.
- Our simple, off-the-shelf solution means the pump packager can find the pump panel anytime, worldwide.

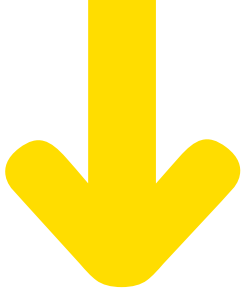
## Another customer's challenge

An **oil and gas pump OEM** required a solution for an existing on-shore/upstream oil extraction operation that was continually hindered by downtime due to power quality issues, variations in voltage, brown-out conditions, voltage surges and lightning strikes. The electrical solution had to provide remote monitoring capabilities, allow for on-site customization and enhance the customer's output.

### The Schneider Electric solution

- We helped the pump OEM switch to an automated electrical pump panel solution.
- The new system's remote monitoring capabilities help reduce downtime by immediately alerting the end user/customer when the system is down, allowing for a faster response time. In turn, productivity is improved and operating costs reduced. The solution now provides more oil per stroke for the customer.
- The flexibility and extra space of the pump panel also allows the pump OEM, or the customer, to make on-site adaptations or modifications without completely changing the controller.





## Related product offerings



### Variable frequency drives and soft starts

- Broad variable frequency drive and soft start offer
- Both open and enclosed versions — including service entrance ratings
- Energy savings for applications
- Reduced inrush current
- Small footprint
- Easy to commission



### Motor protection/circuit protection

- Tested and listed in accordance with UL and CSA electrical standards
- Molded-case and miniature circuit breakers provide pump system protection
- With the flip of a switch you can bring your systems back online




### Pressure switches/controls

- Pioneer and industry leader in pressure switches and controls
- Easy to install and set-up
- UL listed

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