

***EFOY Pro Fuel Cell
Highest Autonomy and Reliable Operation for
Chemical Injection Pumps***



Power Anywhere and Anytime for Chemical Injection Pumps

- ⦿ ***Emission-free Operation***
- ⦿ ***100 Percent Operating Reliability***
- ⦿ ***Long Periods of Maintenance-free Autonomy***

Case Study Oil & Gas – Chemical Injection Pumps

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INN **VERDE**

Save Cost While Protecting the Environment

The Application:

Electric chemical injection pumps are used for injecting chemicals into natural gas pipelines at remote well-sites, to prevent hydrate blockage.

Power demand: Between 7 and 30 W

Energy demand: approx. 700 Wh/day

Autonomy demand: At least 4 months without user intervention, especially during wintertime

The Challenge:

Assure 100% reliable operation in remote locations and cold environment. Lengthen service intervals as much as possible and cut the cost of fuel as well as the environmental impact caused of gas venting for pneumatic pump operation.

The Solution:

Provide electrical power with an EFOY Pro 2200 or a hybrid solution by teaming up an EFOY Pro fuel cell and solar system.

The Benefits:

- ✱ Economical and almost zero greenhouse gas duties – The oil and gas industry wants to diminish CO₂, cut costs and increase efficiency. Since the EFOY Pro produces no harmful emissions whatsoever, it is suitable for operating oil & gas equipment in nature preservations. Prevents highly inefficient propane/methanol use for pneumatic power or thermal electric generators.
- ✱ 100 % reliable power around the clock and in any type of weather – The EFOY Pro will produce electricity in any weather, climate or season, from the desert to the Arctic Circle, as long as it is properly integrated and fuel supply is guaranteed.
- ✱ Extended operation without any user intervention – Teamed up with two 28 liter EFOY fuel cartridges, one EFOY Pro can power a 10 Watt pump for over 8 months without any user intervention.

→ **EFOY Pro saves cost while protecting the environment**

References:

Bradley Scott, Ensol Systems Inc., Canada

"System outages due to power failures are a severe problem in the oil & gas industry, as they may adversely affect production, cause data loss and negatively impact logistics costs. Just the cost associated with sending operators to remote sites to replace batteries or address a generator failure is very significant. The EFOY Pro fuel cell really is an enabling solution for our customers, as it will produce power independent of the temperature, the weather or the season. Fuel logistics and installation are easy, and the EFOY Pro systems can be used anywhere."

Jeff D. Smith, WellMark LLC, USA

"We are very interested in the prospect of using the EFOY Pro fuel cell technology in conjunction with our Solar Pumps. We think there is a lot of potential here in the United States. In my mind, it's only a matter of time before this technology is a requirement!"



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