

***EFOY Pro Fuel Cell
Most Reliable and Secure Operation of Wind Parks***



Power Anywhere and Anytime for Obstacle Lights and Pumps

- ⦿ ***Autonomous and Reliable Power Supply for Weeks***
- ⦿ ***Maintenance-free power for long-term use***
- ⦿ ***Easy and quick installation***

Case Study Wind –UPS for Wind Power Plants

Save Costs by Extending the Autonomy



The Application:

For safety reasons uninterrupted power supply is needed during construction phase and longer maintenance periods for obstacle lights and pumps.

Power demand obstacle lights: Between 50 and 100 W

Power demand pumps: Approx. 25 W

The Challenge:

During construction phase, no grid access is available but operation safety for obstacle lights and pumps still have to be guaranteed. Autonomy of up to three months is required, resulting in high service and operating cost for batteries and generators due to high maintenance effort.

The Solution:

Provide electrical power with a maintenance-free and environmentally-friendly EFOY Pro fuel cell, providing autonomous power supply for several weeks or even months.

The Benefits:

- **Autonomous and Reliable Power Supply for Weeks** – The EFOY Pro will produce electricity in any weather, climate or season, from the desert to the Arctic Circle. Helicopter flights to the wind power plants are avoided, saving an abundance of cost (around 30.000 € per flight).
- **Maintenance-free power for long-term use** – EFOY Pro is maintenance-free and the consumption of fuel can be calculated very accurately beforehand, allowing precise planning and avoiding unnecessary trips to exchange batteries every two days – reducing operating cost.
- **Easy and quick installation** – The EFOY Pro is lightweight, compact and can easily be integrated into tower or nacelle.

→ **EFOY Pro provides reliable, maintenance-free and environmentally-friendly power, extending the autonomy of your wind application while saving costs.**



Since 2010 over 50 EFOY Pro fuel cells are already in use to supply uninterrupted power for obstacle lights and pumps on wind towers, during construction phase and during longer maintenance work. Both on- and off-shore wind power plants are equipped, mainly throughout Germany, Denmark and Sweden.

- Key decision elements:
 - Constant system availability
 - Full remote controlled operation
 - Reduced installation and service costs



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