

***EFOY Pro Fuel Cell***  
***Highest Availability for Telecommunication Systems in Outlying Areas***



***Off-Grid Power Anywhere and Anytime  
for Telecommunication Systems***

- ⦿ ***Increased Runtime and Autonomy***
- ⦿ ***100 % Reliability***
- ⦿ ***Easily Installed and Handled***

***Case Study Telecommunication – Continuous Off-Grid Power***

# Reliable Off-Grid Power for Telecommunication



Quelle: Messinkloget / Land Tirol



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## The Application:

Repeater stations are often situated in locations difficult to access in order to transfer telecommunication signals to isolated areas.

Power demand: between 20 and 250 W

Autonomy demand: Several months

## The Challenge:

Provide reliable, weather independent power while having an energy solution that is easily handled, with low maintenance effort.

## The Solution:

Repeater Stations: Combine EFOY Pro fuel cells with solar panels, wind generators and batteries.

## The Benefits:

- ✦ **Increased runtime and autonomy** – Continuous power supply for repeater stations: EFOY Pro fuel cells offer maintenance-free energy supply for several months. Up to one year of autonomy can be achieved for a 20 W repeater station with EFOY Pros in combination with solar.
- ✦ **100 % Reliability** – EFOY Pro fuel cells are lightweight. Large and heavy batteries can be reduced tremendously, easing installation and handling processes.
- ✦ **Easily installed and handled** – An EFOY Pro fuel cell is compact and lightweight and can easily be integrated into existing cabinets. Once installed the only service that has to take place is exchanging the fuel cartridges. This can be calculated precisely beforehand; additionally the fuel cell can be remote controlled, making extra trips to the site unnecessary.

→ **EFOY Pro provides reliable, weather independent power at remote sites while reducing logistics costs.**

## Reference:

Since 2010, over 50 EFOY Pro systems are already in use to provide back-up power for telecommunication systems

Dag Halvorsen, Power Controls AS, Norway

"Norway has some really cold winters, and the remote equipment we install outdoors should handle at -35°C or even colder. Moreover, the winters are quite dark, so solar panels don't give enough power to secure trouble free operation of e.g. radio link masts 24 hours a day. The fuel cells from SFC in Germany are the perfect solution for solving this problem. It's simply the best suited backup system on the market, for remote locations with moderate power demands. Because of the low winter temperatures, we designed a weather proof and insulated cabinet based on an aluminium box from ZARGES in Germany."

**EFOY**  
ENERGY FOR YOU

**INN**OVERDE