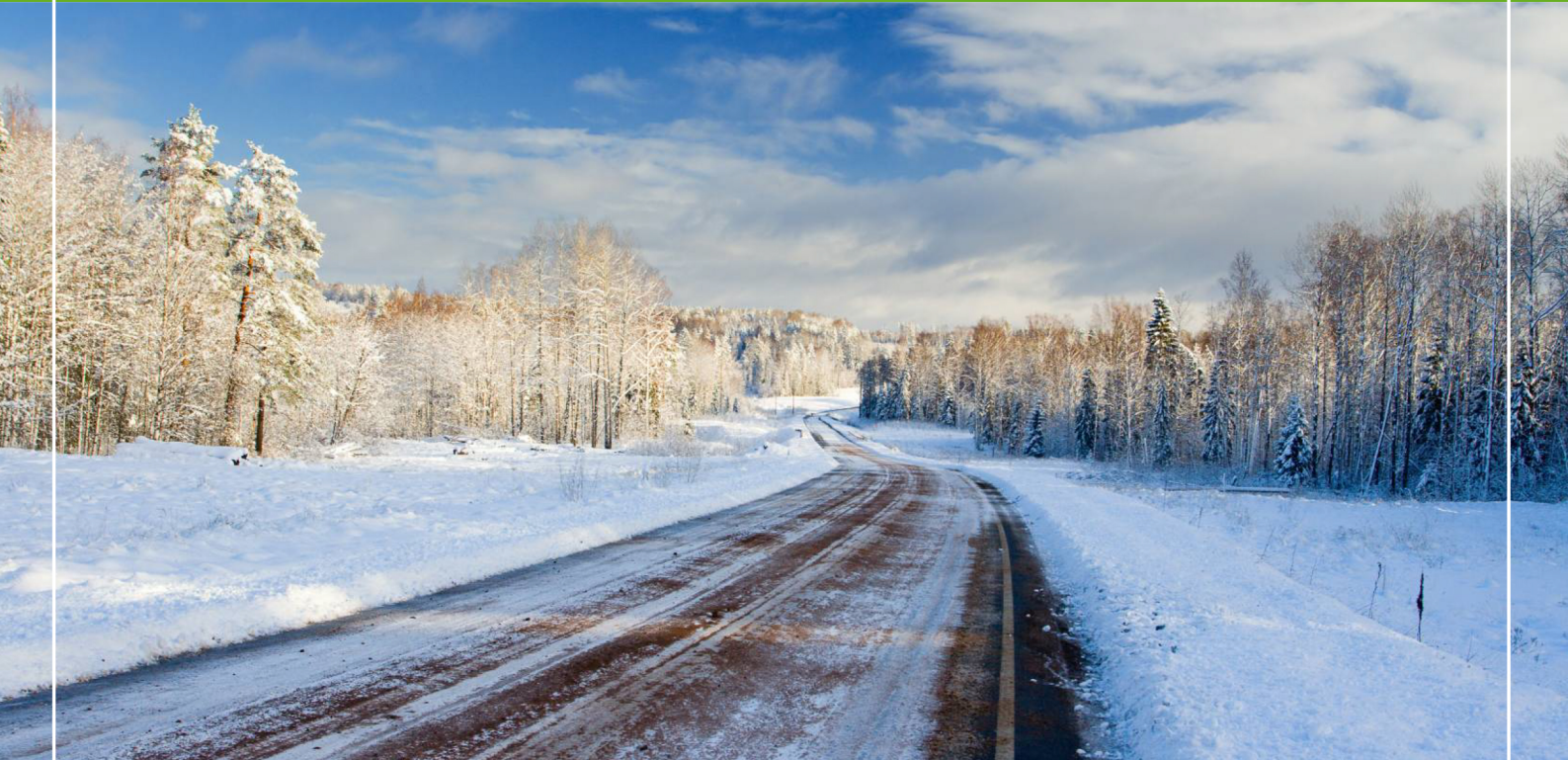


***EFOY Pro Fuel Cell
Highest Traffic Safety through Reliable Monitoring
of Weather and Road Conditions***



Power Anywhere and Anytime for Road Weather Stations

- ⊕ ***Weather Independent***
- ⊕ ***100 % Reliability***
- ⊕ ***Long Autonomy***

Case Study Traffic – Road Weather Stations

EFOY
ENERGY FOR YOU

INN  **VERDE**

Ensure Road Safety in any Weather



The Application:

Road weather stations measure different parameters on roads and bridges, as for example fog, rain, snow, ice and road temperature to ensure road safety and to prevent casualties.
Energy demand: between 300 and 1200 Wh/day

The Challenge:

Provide sufficient power around the clock, especially during wintertime, with low solar intensity and varying temperatures. Solar alone does not supply reliable energy, especially during weather-critical seasons.

The Solution:

Combine existing solar panels and batteries with an EFOY Pro 1600, integrated into a cabinet.

The Benefits:

- ❖ **Weather Independent** – Complementing EFOY Pro fuel cells with solar combines best of both technologies. As long as the sun delivers enough power, the fuel cell remains in standby. As soon as solar intensity goes down, the fuel cell steps in filling the energy gap and recharging the battery → Power around the clock, 24/7 and 365 days a year.
- ❖ **100 % Reliability** leads to 100 % data collection. Downtime costs are avoided and for slippery road surface warnings can be issued when needed.
- ❖ **Long autonomy** – EFOY Pro fuel cells offer maintenance-free energy supply for several months. Up to 50 days of autonomy can be achieved for a 50 W monitoring device.

→ **EFOY Pro supplies reliable power, independent of weather conditions and for a long period of time without any user intervention.**

Reference:

A I S I F I I N I A I G

AUTOBAHN SERVICE GMBH

A cabinet with 2 EFOY Pro fuel cells, 4 M28 fuel cartridges and a solar panel (see pictures on the left) power the new ASFINAG road weather stations "OpenWI" (Open Weather Information System).

10 of these systems are already installed and in use in Austria since 2011.



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