

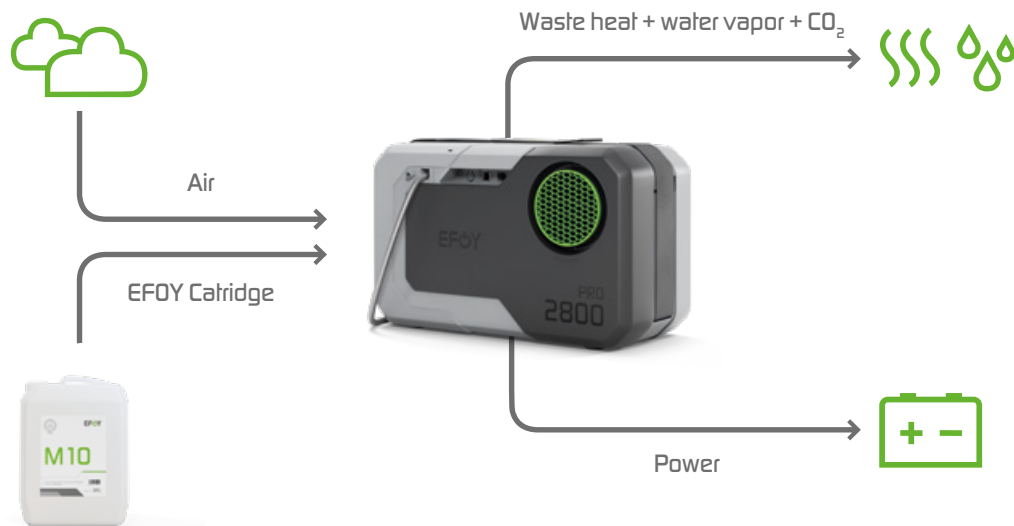
# SFC Fuel Cell technologies



## Extraordinarily environmentally friendly

SFC's EFOY Fuel Cells are based on two fuel cell technologies, DMFC (direct methanol fuel cell) and PEM (polymer electrolyte membrane). Our EFOY and EFOY Pro Fuel Cells are based on DMFC technology and our EFOY JUPITER Fuel Cells are based on PEM technology. At the heart of any fuel cell is the stack that is the power generating core component of the fuel cell. By feeding hydrogen and oxygen to the stack, electricity is generated through an electrochemical process called cold-combustion. As part of the process, only waste heat, water vapour and, with our DMFC fuel cells, a small amount of carbon dioxide, are generated. In the case of our EFOY and EFOY Pro Fuel Cells, methanol

is fed to the fuel cell stack where hydrogen is extracted from the methanol as part of the electrochemical reaction (direct methanol fuel cell technology). Pure methanol is supplied in SFC's patented fuel cartridges specifically design for use with our EFOY and EFOY Pro Fuel Cells. Commercially available hydrogen cylinders are used to supply our EFOY JUPITER Fuel Cells with pure hydrogen. EFOY Fuel Cells work completely automatically, quietly and are environmentally friendly. They can be installed in concealed and tamper-proof cabinets and will reliably produce electricity independently of the weather. This is an exceptionally environmentally friendly way to produce energy.



## Direct methanol technology

EFOY direct methanol fuel cells charge batteries completely automatically. The integrated charge controller permanently monitors the charge status of the battery. When required, the EFOY Fuel Cell is started automatically and turned off again when the battery has been charged. In this way, batteries last significantly longer, since the controlled charging protects them from harmful deep discharges. This means long self sufficiency without user intervention for your application.

# EFOY Fuel Cells

## for professional users

EFOY Fuel Cells are the ideal power generators for a wide range of stationary and mobile applications. They generate electricity reliably for weeks and months without user intervention. The EFOY direct methanol fuel cells are available as EFOY and EFOY Pro models with an output of up to 500 W depending on the power requirements and user requirements. Our EFOY and EFOY Pro models are designed for different application purposes. The EFOY models are designed for temporary applications with low operating hours and

are used as a back-up power supply for grid-connected or solar-powered hybrid installations. The EFOY Pro series is ideal for continuous operation and can also be used in hybrid operation. You can operate your application completely autonomously with the EFOY Pro, compensate for low solar output and use smaller solar modules. The EFOY JUPITER hydrogen fuel cell serves as a back-up power supply solution and ensures the power supply in case the power fails.








Max. output <sup>1</sup>	40 W	75 W	42 W
Nominal voltage	12/24 V DC		12/24 V DC
Weight	6.5 kg / 14.3 lbs	6.9 kg / 15.2 lbs	6.5 kg / 14.3 lbs
Dimensions <sup>2</sup> (L x W x H)	448 x 198 x 275 mm / 17.6 x 7.8 x 10.8 in		448 x 198 x 275 mm / 17.6 x 7.8 x 10.8 in
Connectable fuel cartridges / gas cylinders	1 (up to 8 with EFOY Fuel Manager)		1 (up to 8 with EFOY Fuel Manager)
Operating temperature	-20 °C to +40 °C / -4 °F to +104 °F		-20 °C bis +50 °C / -4 °F to +122 °F
Operating materials	Methanol in EFOY fuel cartridges		Methanol in EFOY fuel cartridges
<b>Performance classes of the EFOY fuel cells</b>	<b>40 W</b>	<b>75 W</b>	<b>42 W</b>

Temporary applications

Continuous operation

<sup>1</sup> The output power decreases with the number of operating hours.

## Advantages

-  100% reliable
-  Autonomous, low maintenance
-  Environmentally friendly and quiet
-  Lightweight and compact
-  Remote surveillance
-  Reduced operating costs

## Which EFOY is the right one for me?

Use our energy calculator to determine the model that suits your needs.

[efoy-pro.com/energy-calculator](http://efoy-pro.com/energy-calculator)

You can find extensive technical details at [efoy-pro.com](http://efoy-pro.com)

EFOY Pro 1800



EFOY Pro 2800



EFOY Pro 12000 Duo



EFOY JUPITER 2.5



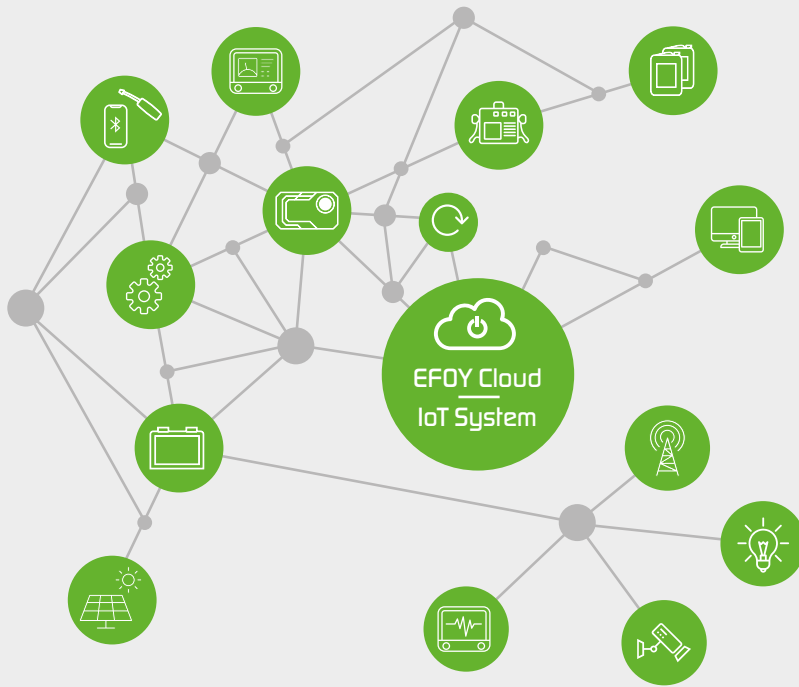
82 W	125 W	500 W	2500 W
12/24 V DC		24/48 V DC	48 V DC
7.2 kg / 15.9 lb	7.8 kg / 17.2 lbs	32 kg / 70.5 lbs	27 kg / 59.5 lbs
448 x 198 x 275 mm / 17.6 x 7.8 x 10.8 in		640 x 441 x 310 mm / 25.2 x 17.4 x 12.2 in	536 x 483 x 311 mm / 21.1 x 19 x 12.2 in
1 (up to 8 with EFOY Fuel Manager)		2 (up to 4 with DCS1)	The system has a connection. Several H <sub>2</sub> gas cylinders can be connected to each other.
-20 °C bis +50 °C / -4 °F to +122 °F		-20 °C bis +50 °C / -4 °F to +122 °F	-33°C to +50°C / -27.4 °F to 122 °F
Methanol in EFOY fuel cartridges		Methanol in EFOY fuel cartridges	Hydrogen
<b>82 W</b>	<b>125 W</b>	<b>3 kW</b>	<b>50 kW</b>

Continuous operation

For better performance

<sup>2</sup> Dimensions without 19" frame. | All technical data under test conditions of 20°C.

# Accessories and control tools



## Utilise the various control options for EFOY Fuel Cells.

Operate the EFOY on site via a control panel or remotely from your laptop, smartphone or tablet. The EFOY accessories allow you to monitor your fuel cells around the clock, to incorporate them into an existing communication network and extend the self sufficiency of your systems.

## Remote monitoring with EFOY Cloud

EFOY Fuel Cells are often used in remote locations and require the option of secure remote access. The EFOY Cloud gives you access to your methanol fuel cells from anywhere so you can monitor continuous operation via laptop, tablet or smartphone. All you need for this is an Internet connection to your fuel cells.

You can, for example, track the current operating status of each of your fuel cells, historical data or fill levels of the EFOY fuel cartridges. If necessary, configure battery parameters and receive the firmware updates completely automatically. The integrated alarm management informs you, for example, by email of upcoming fuel cartridge replacements or a battery voltage that falls below the threshold.

## Extend the self sufficiency with the EFOY Fuel Cartridges Manager

The Fuel Manager (FM) allows you to operate several EFOY fuel cartridges with one EFOY. Depending on the model, two, four or eight fuel cartridges can be simultaneously connected. The Fuel Manager automatically switches from the empty one to the next full fuel cartridge and ensures a long self sufficiency without user intervention.

### Example of an application with continuous 50 W (without solar energy support)

Fuel cell + FM	Fuel cartridges	Self sufficiency
EFOY Pro 1800	1x M28	26 days
EFOY Pro 1800 + FM2	2x M28	52 days
EFOY Pro 1800 + FM4	4x M28	104 days
EFOY Pro 1800 + FM8	8x M28	208 days

## Control and configuration via control panel or the EFOY app

The control panel in the EFOY makes it possible to easily operate the EFOY and the EFOY Pro Fuel Cell. With just a few clicks, you can view information about the current operation of the fuel cell, such as the average charge duration, the battery voltage, the current charging current as well as the fuel cartridge fill level. Battery parameters can always be adapted to special requirements. You can also access this data via Bluetooth or your EFOY app. All you need to do this is the EFOY Bluetooth adapter.



## Optional accessories for EFOY and EFOY Pro<sup>1</sup>



### EFOY Fuel Manager (FM)

The EFOY Fuel Manager makes it possible to operate 2, 4 or 8 fuel cartridges. Not compatible with EFOY Pro 12000 Duo.



### DuoCartSwitch DCS1

The DCS1 DuoCartSwitch allows the operation of up to four fuel cartridges. Only compatible with EFOY Pro 12000 Duo.



### Fuel cartridge sensor

The fuel cartridge sensor is used to measure the methanol level in the fuel cartridge. It will indicate when the fuel cartridges need to be changed.



### Modem/Router

The modem and router are used for remote monitoring of the EFOY Pro Fuel Cells.



### EFOY Bluetooth Adapter

The EFOY Bluetooth adapter makes it possible to control the fuel cells via the EFOY app. Not compatible with the EFOY Pro 12000 Duo.



### M28 Adapter

An interim attachment is used to connect the M28 fuel cartridges to the fuel cell or to the Fuel Manager.

<sup>1</sup> Please note that not all accessory parts are compatible with all fuel cells. If you have any questions, feel free to contact us.




<sup>2</sup> Example

# EFOY

## Lithium Batteries

The EFOY Lithium Battery is the ideal way to start using an off-grid power supply. The smart Battery Management System (BMS) continuously controls the battery parameters in order to optimise the battery's efficiency and to protect it. Thanks to the built-in heating element, the EFOY Lithium Battery can be charged even at temperatures below zero.

### Advantages

-  High discharge current
-  Suitable for the winter
-  Battery Management System



### The ideal job for the EFOY Lithium Battery

#### The smart Battery Management System

The smart EFOY BMS ensures that the parameters of the EFOY Lithium Battery are controlled and optimised fully automatically. In this way, the battery is ideally protected from overcharging and deep discharge.

#### The ideal battery for cold temperatures

The EFOY Lithium Battery works even at low temperatures. Commercially available lithium batteries cannot be charged in cold temperatures. Thanks to the built-in heating element, it can also be charged even in temperatures down to -20°C.

#### Splash-proof

The EFOY Lithium Battery is protected against splash water, making it ideal for extreme ambient requirements.

#### Ideal for high peak loads

Heavy consumers often stress a battery with high peak currents. The EFOY Lithium Battery is ideally designed for such consumers.

#### Safe LiFePO4 technology

We rely on the proven and safe lithium iron phosphate technology (LiFePO<sub>4</sub>).

#### High energy capacity with a low weight

Compared to conventional lead batteries, the EFOY Lithium Battery has a high energy capacity with a low weight. In addition, it can be 100% discharged.

Battery	EFOY Li 70	EFOY Li 105
Technology	Lithium iron phosphate	
Nominal voltage in V	12.8 V	
Capacity in Ah	70 Ah	105 Ah
Comparable capacity of a lead battery	140 Ah	210 Ah
Max. discharge current/contr.	230 A / 70 A	300 A / 105 A
BMS	Integrated	
Protection class	IP 44	
Operating temperature	-20°C to 60°C / charging up to 45°C	
Connection	M8 / vehicle crocodile clip	
Dimensions (L x W x H)	268 x 175 x 190 mm / 10.6 x 6.9 x 7.5 in	368 x 175 x 190 mm / 14.5 x 6.9 x 7.5 in
Weight	11.8 kg	16.3 kg
Interfaces	2x RJ 12: SFC bus and EFOY Bluetooth adapter BT2	

# EFOY Hybrid Power Fuel Cell and Lithium Battery



EFOY Hybrid Power is a perfectly matched energy package consisting of EFOY Fuel Cells as power generators and EFOY Lithium Batteries as power storage. 100% autonomous, environmentally friendly and quiet. The smart BMS of the EFOY Lithium Battery ensures intelligent communication between the fuel cell and battery. This way, the EFOY Fuel Cell works at maximum efficiency and the battery benefits from ideal charging, special protection and a long service life. And you benefit from a particularly powerful and efficient energy supply – simply intelligent.

## All advantages at a glance



Extensive technical details can be found on our website at [efoy-pro.com](http://efoy-pro.com)

# EFOY Pro

## energy solutions

As a system solutions provider, SFC Energy is constantly working to develop complete solutions for various requirements. EFOY Pro energy solutions combine power generation via EFOY Pro Fuel Cells and energy storage with batteries in a suitable housing. There is still sufficient space for customer-specific adaptations.

You can find an overview of all EFOY ProCabinet models on our website at [efoy-pro.com/cabinet-en](http://efoy-pro.com/cabinet-en)



### EFOY ProCabinet

EFOY ProCabinets are a complete energy solution for outdoors for an autonomous, stationary power supply with EFOY Pro Fuel Cells – entirely without a mains connection. The complete, stationary energy solution consists of a control cabinet, which offers room for an EFOY Pro, batteries, solar charging control, as well as one or more fuel cartridges depending on the application. Different types of charge controllers, a modem for remote monitoring or a voltage converter can optionally be installed. EFOY ProCabinets are ideal, for example, for standalone operation or as a back-up solution for an uninterruptible power supply (UPS).

### Stationary energy solutions







## Mobile energy solutions

### SFC XCase

The SFC XCase is a mobile case solution, which can easily be transported by one person. As a complete solution, it is based on an EFOY Pro 2400 fuel cell as well as fuel cartridge and battery built into robust cases. The sturdy housing and fast setup process means that the XCase is ready for use at any time and in any location, regardless of the weather. The compact solution is also well-suited for undercover operations and ensures long self sufficiency without user intervention.



### EFOY ProCube

The EFOY ProCube is a mobile, maintenance-free complete solution for off-grid power supplies— instantly ready for use at all times and in any location. The box is suitable for outdoor use and is pre-configured so it can be customised to your requirements by selecting the relevant size of EFOY Pro, fuel cartridge and battery. The EFOY ProCube is available in two designs with room for one or two M28 fuel cartridges. The EFOY ProCube can be used temporarily, e.g. on construction sites, or permanently in hard-to-access areas. This complete energy solution is perfect for applications outdoors.



You can find an overview of all energy solutions on our website at [efoy-pro.com/energy-solutions](https://efoy-pro.com/energy-solutions)

## Mobile energy solution



### EFOY ProTrailer

The EFOY Pro Fuel Cell, with up to four solar modules, is integrated in the EFOY ProTrailer. The hybridisation of fuel cell and solar modules combines these two power generators in a cost-effective way. If sufficient power is no longer generated via the solar panel, for example, in bad weather, during winter or in the shade, the fuel cell will turn on automatically to take over the power supply. This saves operating costs. As with all EFOY Pro energy solutions, the new EFOY ProTrailer offers extremely long periods of autonomy without any need for user intervention and it can be configured to suit the customer's requirements.



## Customer-specific Solutions

Every project has specific requirements. We offer you the perfectly adapted energy solution. Depending on requirements, we will carry out individual adjustments or develop a customer-specific solution based on your needs.



The energy solution for specific requirements



# Reference applications for professional users

"Cameras on construction sites contribute to traffic safety. With mobile solutions, the cameras can be relocated in a short space of time to keep an eye on what's happening on the construction site at all times. With an autonomous power supply for mobile camera systems, you are independent of the power grid and flexible in the positioning of the cameras."

Ulrich Häsperl, Bayerische Straßenbauverwaltung








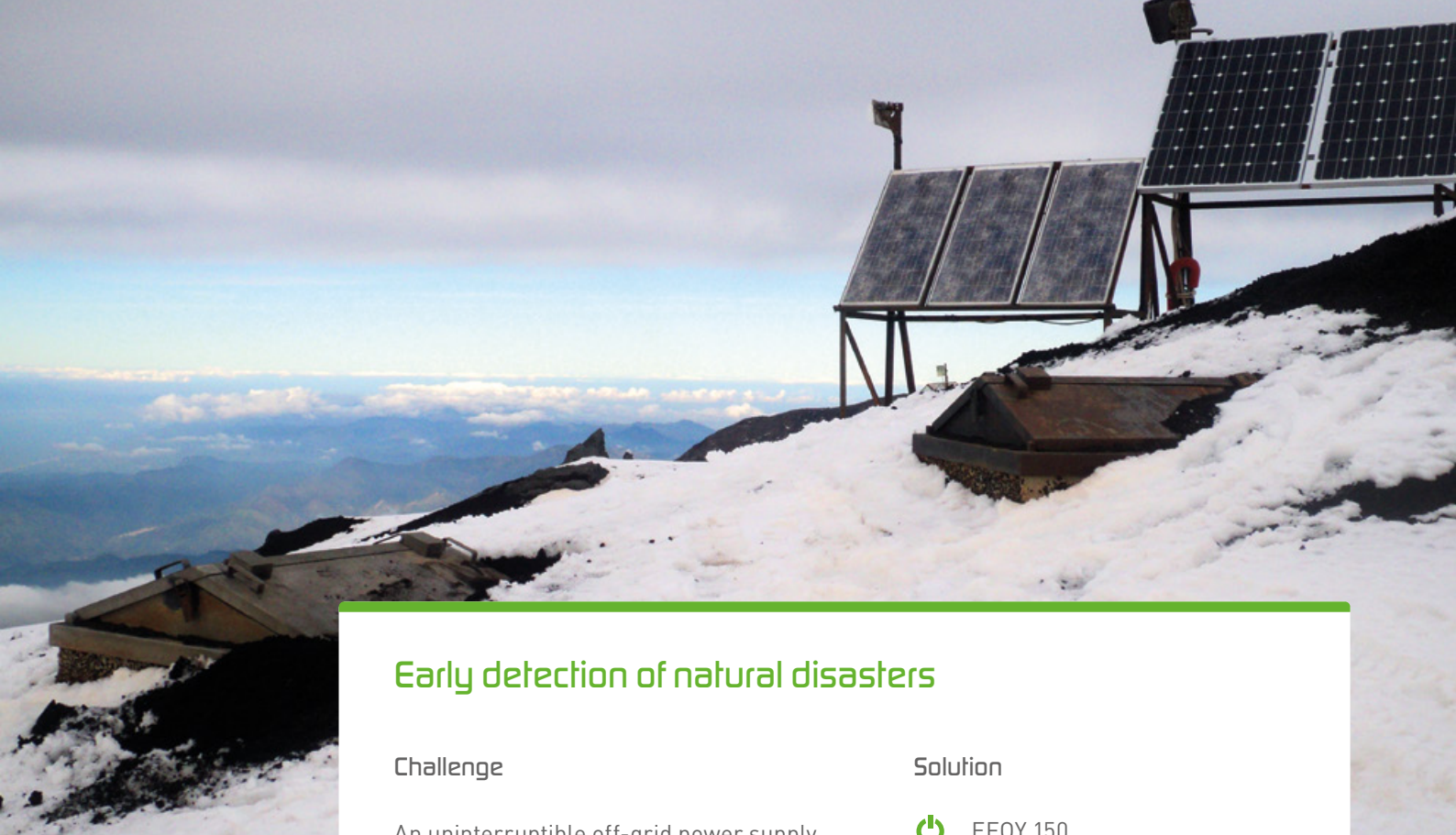
## Traffic engineering

### Challenge

Reliable power supply for temporary construction site management systems, trailer-based installations, such as LED displays, off-grid traffic control systems on highway bridges and mobile applications, such as traffic counters, radar systems or video/web cam monitoring.

### Solution

-  EFOY Pro 900
-  EFOY ProCabinet 2020S
-  2x M10 fuel cartridges
-  Fuel Manager FM2
-  30 days of self sufficiency @ 30 W



## Early detection of natural disasters

### Challenge

An uninterruptible off-grid power supply for temporary applications, such as thermal imaging cameras as an early detection of forest and smouldering fires, fires at landfills and volcano monitoring.

### Solution

- 🔌 EFOY 150
- 🔌 EFOY ProCube 2060A
- 🔌 2x M28 fuel cartridges
- 🔌 Fuel Manager FM2
- 🔌 1,200 Wp Solar
- 🔌 6 months of self sufficiency @ 50 W



"EFOY Pro Fuel Cells supply monitoring stations around volcano peaks with power so they can predict eruptions and therefore save human lives. These stations are located at up to 3,000 m above sea level and prove the EFOY Pro's reliability under extreme conditions. The remote monitoring allows us to monitor the status of the fuel cell. Downtime is minimised and the long self sufficiency saves us helicopter flights and therefore operating costs."

Marco Levi, Hydro2Power SRL



## On-board power for control & special vehicles

### Challenge

Ensuring the power supply on-board official and measuring vehicles while implementing stationary checks. The comprehensive technology in the vehicles requires a high energy demand that pushes the on-board or second battery to its limit. Without an additional power supply, the only way to cover the energy demand to date was to have the vehicle engine running.

### Solution

- 🔌 EFOY 150 or EFOY Pro 1800
- 🔌 1x M10 fuel cartridges
- 🔌 Up to 30 days of self sufficiency @ temporarily 70 W



"The EFOY Pro fuel cells ensure the perfect supply of energy to our inspection vehicles while on-site inspections are being carried out."

Ralf Mülhausen, Bundesamt für Güterverkehr  
(BAG = German Federal Office for Goods Transport)

“GEOFIT uses EFOY Pro Fuel Cells for the real-time measurement of earth and structure movements. We chose this solution to be able to work in all areas where there is no option to connect to the mains power supply. The EFOY Pro energy solution is easy to transport and our own technicians can set them up manually. This makes it possible to also perform very short-notice measurement campaigns and to track the progress of construction work.”

Alexandre Toubois, GEOFIT



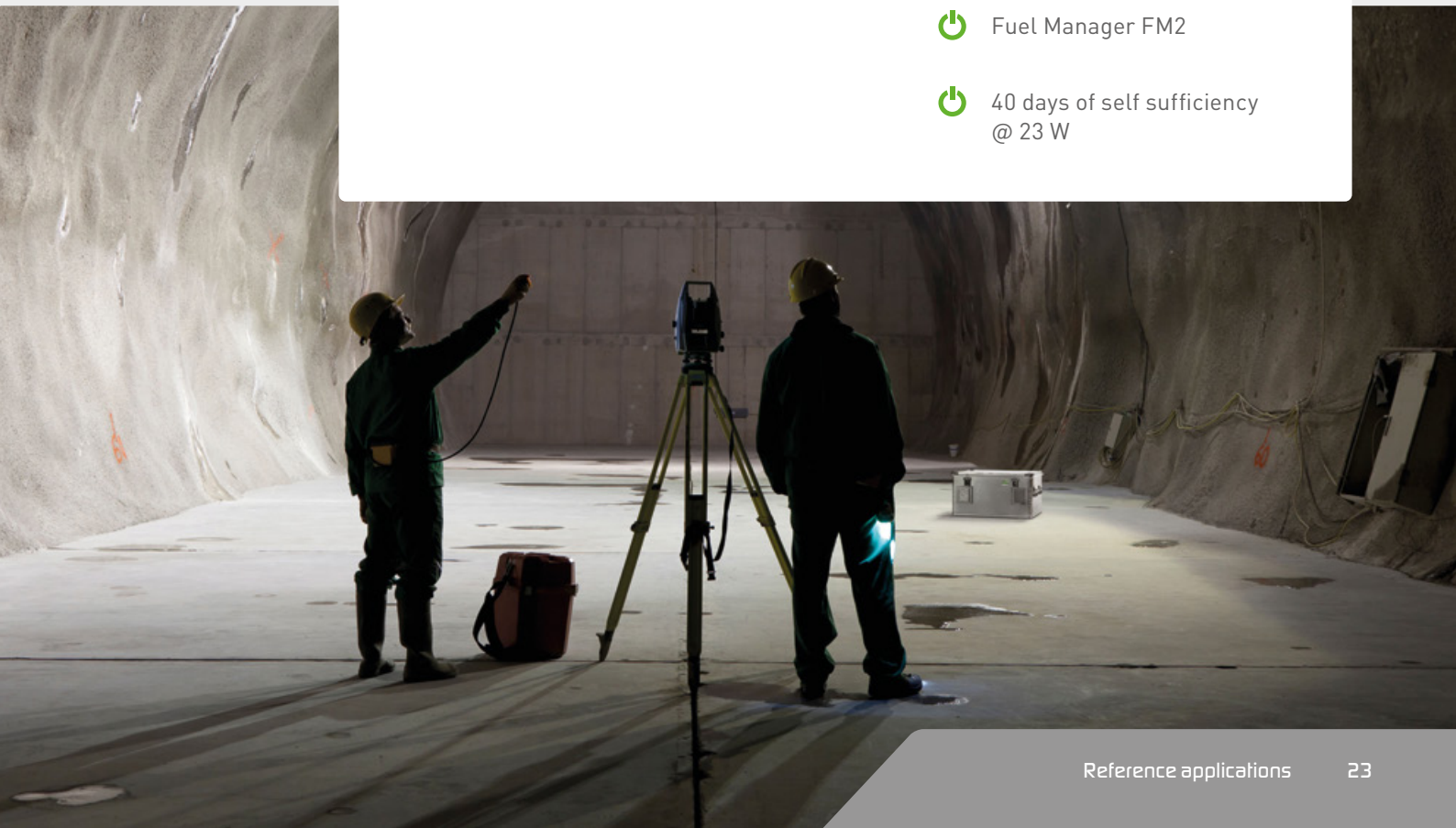
## Reliable data acquisition and transmission

### Challenge

Ensuring an uninterrupted power supply for off-grid locations without solar support to seamlessly record data of water levels, noise emissions, weather and climate data or seismic movements.

### Solution

- 🔌 EFOY Pro 900
- 🔌 EFOY ProCube 2030A
- 🔌 2x M10 fuel cartridges
- 🔌 Fuel Manager FM2
- 🔌 40 days of self sufficiency @ 23 W



“During the expedition, we were only able to access our remote sites at infrequent intervals, but through remote monitoring we could ensure that operations were maintained at these sites. Importantly, due to the COVID-19 pandemic, our research vessel and all research personnel had to leave the sea ice for more than a month. During this time, the EFOY Pro kept our systems continuously running during a very important time, allowing our ASFS to capture the important transition that occurs during the onset of the summer melt season.”

Matthew Shupe, Senior Research Scientist,  
National Oceanic and Atmospheric Administration (NOAA), Boulder, Colorado



## Measurement stations for recording environmental data

### Challenge

The seamless recording of environmental data at off-grid locations requires a reliable and weather-independent power supply. This requires an addition or alternative to the weather-dependent solar power to be able to seamlessly record data regarding noise emissions, water levels, seismic movements as well as weather and climate data.

### Solution

- 🔌 EFOY Pro 2800
- 🔌 EFOY ProEnergyBox 4060P
- 🔌 2x MT60 fuel cartridge
- 🔌 Fuel Manager FM2
- 🔌 60-90 days autonomy @ 60-100 W







## Mobile & stationary video monitoring systems

### Challenge

An uninterruptible, off-grid power supply for stationary applications and for monitoring critical infrastructures. This includes video monitoring systems for construction sites, railway crossings, for observing wild-life, as well as for monitoring and securing public places and gatherings.

### Solution

- 🔌 EFOY Pro 1800
- 🔌 2x M10 fuel cartridges
- 🔌 Fuel Manager FM2
- 🔌 250 Wp Solar
- 🔌 16 days of self sufficiency @ 60 W



“There are many innovative solutions and technologies for surveillance on the market. However, without power, these solutions are useless. A reliable power source is the key to success.”

Ken Pereira, CEO Oneberry Technologies

“Modern Resources has committed to working in an environmentally friendly manner. That is why we chose to use the EFOY Pro Fuel Cells in hybrid operation with solar, because this is the best and most sustainable option to ensure a reliable power supply for our application year-round. The EFOY Pro works reliably and autonomously year-round, even under harsh winter weather conditions. The minimum effort changing fuel cartridges and the extremely low CO<sub>2</sub> emissions make the EFOY Pro the most efficient and environmentally friendly choice.”

James Martin, Operations Manager, Modern Resources, AB, Canada



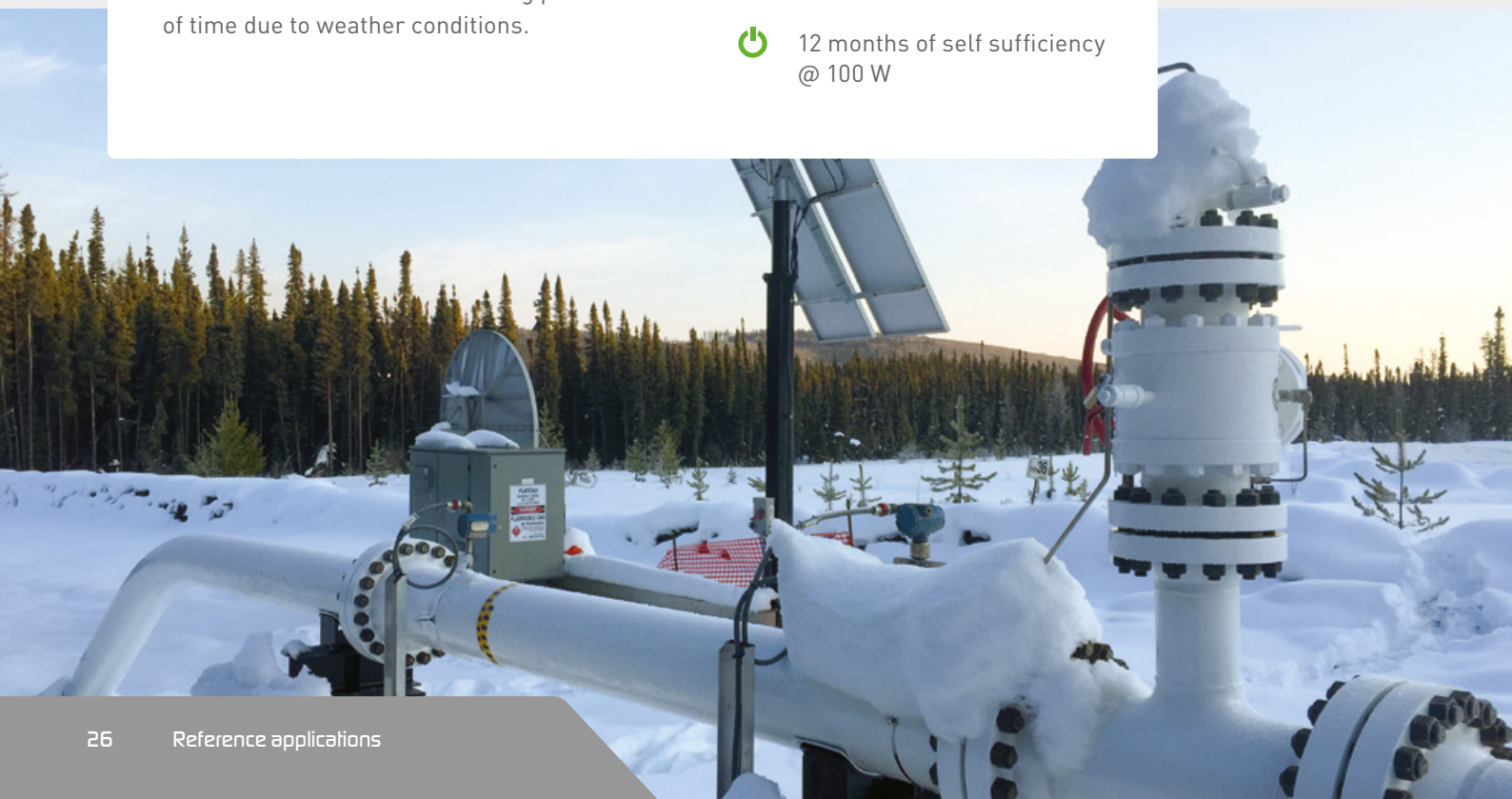
## Oil & gas applications

### Challenge

The power supply for critical loads in remote locations in the oil and gas sector as well as mining is a challenge and requires a reliable power source that works autonomously for long periods of time. Whether for SCADA & telemetry, valve actuation, leak detection, telecommunication or CCTV, the power supply needs to work reliably with minimum user intervention for the whole year, since many of these locations are inaccessible for long periods of time due to weather conditions.

### Solution

- 🔌 EFOY Pro 2800
- 🔌 EFOY ProCabinet 4120SX
- 🔌 4x M28 fuel cartridges
- 🔌 Fuel Manager FM4
- 🔌 4x 410 Wp Solar
- 🔌 12 months of self sufficiency @ 100 W





## Traffic engineering

### Challenge

To increase safety in road and rail traffic, a reliable power supply independent of weather conditions must be ensured. The systems that promote safety include, for example, road weather stations to detect black ice, stationary and mobile radar cameras to enforce speed limits, temporary construction site and traffic control systems, traffic counting systems as well as off-grid applications, such as points and signalling technology with multiple, short power peaks per day.

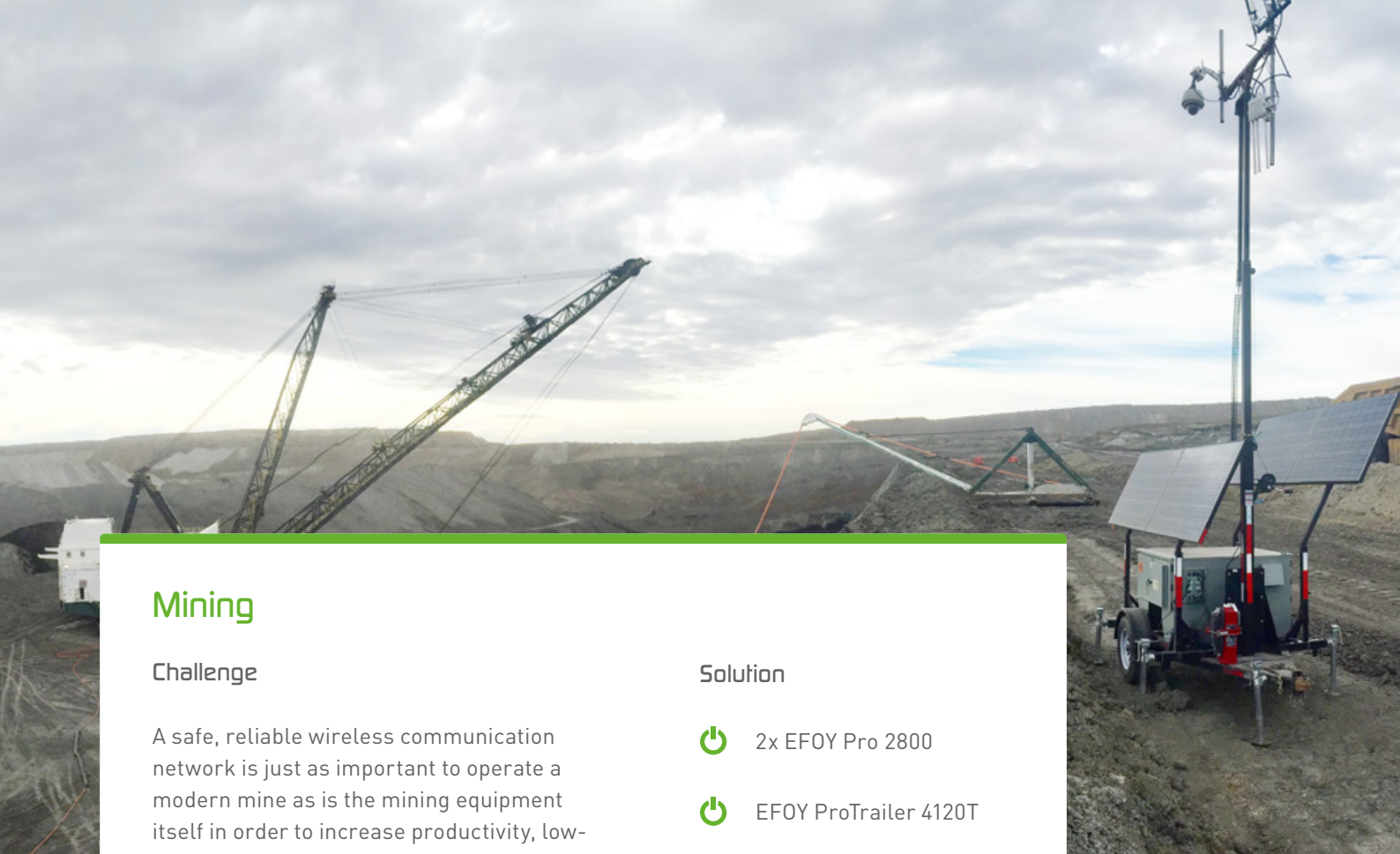
### Solution

- 🔌 EFOY Pro 2800
- 🔌 EFOY ProCabinet 2130A
- 🔌 4x M28 fuel cartridges
- 🔌 Fuel Manager FM4
- 🔌 60 days of self sufficiency @ 90 W

“Places with an increased danger of accident are usually located outside of populated areas and are therefore far away from the power grid. EFOY Pro Fuel Cells have proven to be the ideal solution both for the permanently stationary or mobile flexible operation of our traffic monitoring systems. The EFOY Pro ensures our technology is powered and quietly and reliably contributes to increased safety in road traffic.”

**Dominik Schöner, Managing director of DMT Digitale Verkehrsmesstechnik**





## Mining

### Challenge

A safe, reliable wireless communication network is just as important to operate a modern mine as is the mining equipment itself in order to increase productivity, lower maintenance costs and increase safety. Since mines largely use autonomous vehicles, supplying critical communication loads in the most difficult and remote environments requires a reliable solution that can operate autonomously for long periods of time. No matter whether it is a mobile communication and video monitoring trailer that moves when the mine's terrain continues to change or a fixed communication repeater tower. The power supply needs to be 100 per cent ensured in order to avoid extremely costly equipment failures.

### Solution

- 2x EFOY Pro 2800
- EFOY ProTrailer 4120T
- 4x M28 fuel cartridges
- 2x Fuel Manager FM2
- 4x 410 Wp Solar
- 12 months of self sufficiency @ 125 W



“Communication on British Columbia’s northern coast can be a challenge. The elements in this mountainous region can take its toll on the communication systems. Thanks to our decades of experience in this region, we are used to these unique challenges and using the EFOY Pro Fuel Cells in a hybrid combination with solar power was the best and most environmentally friendly solution to ensure operation year-round. We chose this solution, because it can work autonomously and reliably year-round, even in wintry weather conditions, with minimum effort required.”

**Rob Dykman, Managing director, Coast Mountain Wireless, BC, Canada**

“In the medium to long-term, fuel cells are more cost effective compared to other energy sources. Capable of being fully integrated and therefore protected from the outside environment, fuel cells are maintenance-free and convince with very predictable operating times.”

Vegar Neshaug, Product Manager, SEAWATCH Wind LiDAR Buoy



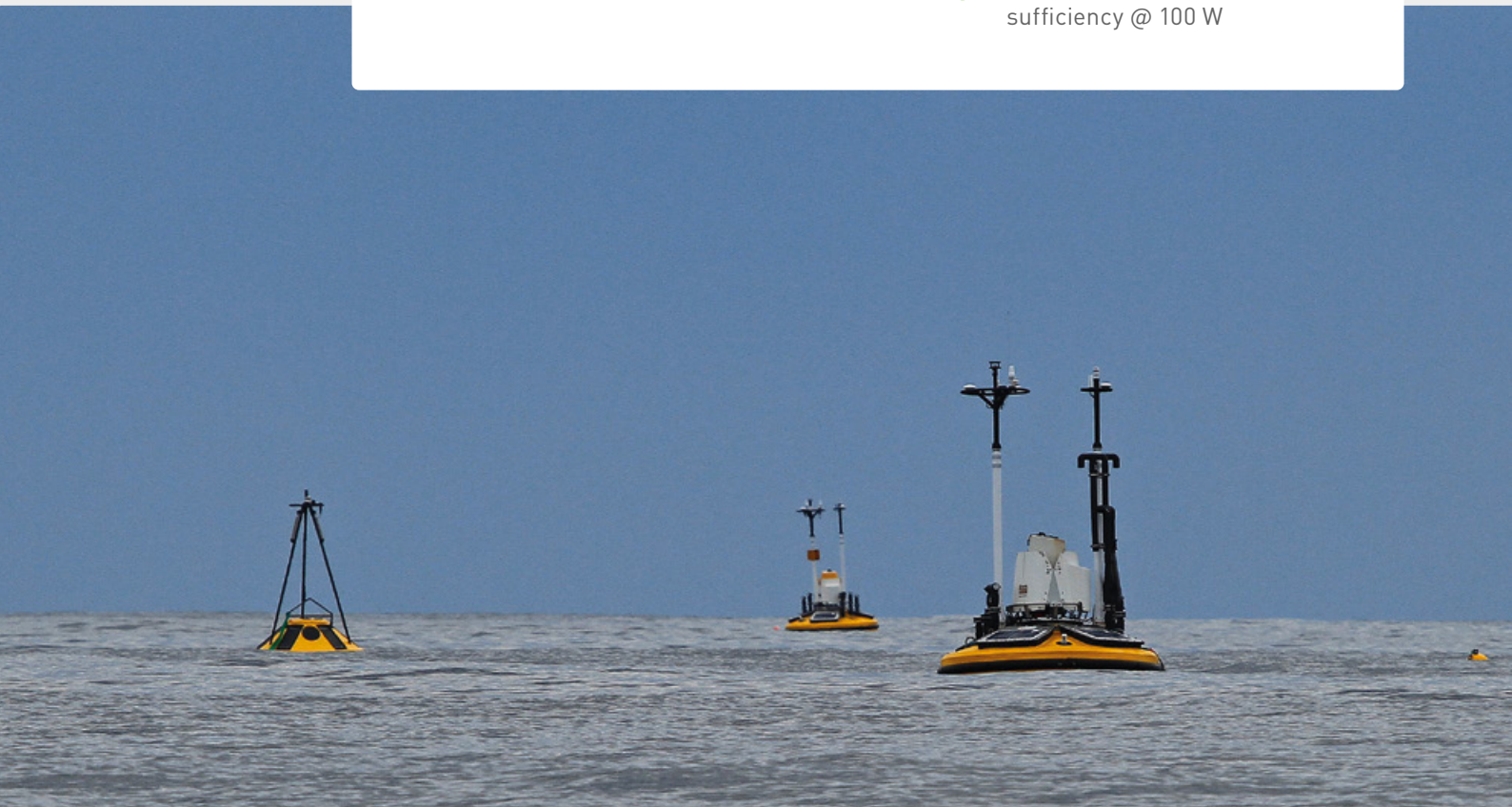
## Wind measurement systems

### Challenge

A reliable power supply for the seamless data acquisition of wind profiles with LiDAR and SoDAR devices to evaluate possible on-shore and off-shore wind farm investments and locations.

### Solution

- 🔌 4x EFOY Pro 2800
- 🔌 16x M28 fuel cartridges
- 🔌 4x Fuel Manager FM4
- 🔌 4x50 Wp Solar
- 🔌 Up to 5 months of self sufficiency @ 100 W





“The biggest advantages are maximum safety and the fact that complex and constant re-fuelling with diesel is avoided. In winter, in particular, it can get very expensive, if there is a lot of snow and a helicopter is needed to reach the site.”

Andrea Comuzzi, CALZAVARA SpA



## Critical infrastructures

### Challenge

Weather-independent and reliable power supply of off-grid applications, such as transmitter stations, repeater stations or points and signalling technology with multiple short power peaks per day. Power supply for a local micro-grid and closing supply gaps in remote, rural areas where the power demand cannot be reliably covered with solar modules.

### Solution

- 🔌 EFOY Pro 12000 Duo
- 🔌 EFOY ProCabinet 2260A
- 🔌 2x MT60 fuel cartridges
- 🔌 3,600 Wp Solar
- 🔌 12 months of self sufficiency @ 400 W

# EFOY fuel cartridges

EFOY direct methanol fuel cells from SFC are operated using methanol. The methanol is stored in EFOY fuel cartridges that have been designed especially for this purpose. Depending on requirements, EFOY fuel cartridges are available in 5, 10, 28 and 60 litre capacities. High-purity methanol is needed to reliably operate the EFOY Fuel Cells. To ensure compliance with the strictest safety standards, each filling operation is supervised by SFC quality management. Only when original EFOY fuel cartridges are used, can the maximum operating life of the fuel cell be guaranteed.

According to the CLP Regulation, methanol is categorised as a poisonous and easily flammable substance. You can find more information in the safety data sheets in the download area of our website

[efoy-pro.com/downloads-en](http://efoy-pro.com/downloads-en)



The EFOY fuel cartridge	M5	M10	M28 <sup>1</sup>	MT60
Contents	5 litres	10 litres	28 litres	60 litres
Weight	4.3 kg	8.4 kg	23.4 kg	55 kg
Nominal capacity	5.6 kWh	11.1 kWh	31.1 kWh	66.7 kWh
Size (L x W x H)	190 x 145 x 283 mm	230 x 193 x 318 mm	370 x 285 x 395 mm	340 x 390 x 670 mm
Autonomy @ 50 W	111 hours	222 hours	622 hours	1,333 hours

<sup>1</sup> M28 adapter required

## High energy density

The high energy density of methanol provides a lot of energy in a very small space with EFOY fuel cartridges. 10 litres of methanol has a capacity of 11.1 kWh of energy and weighs just 8.4 kg. To deliver the same quantity of energy, around 280 kg of lead-gel batteries would be needed. As a result, the autonomy of your off-grid application can be increased many times.

## Safety-tested

EFOY fuel cartridges have been designed to meet the strictest safety standards and have received UN approval for transportation by sea, road and air. Their design ensures that the user is never at risk of coming into contact with their contents.

## Global fuel cartridge logistics

SFC has established a global logistics network for the sale of EFOY fuel cartridges. EFOY fuel cartridges are available from SFC retailers worldwide. EFOY fuel cartridges can also be transported on pallets via road, sea and air.

