STORAGER® POSSIBLE APPLICATION AREAS

- · Off-grid Telecom towers
- Containerised temporary offices, living quarters, storage facilities, guard posts for construction or mining sites
- Country houses, safari lodges, remote farms
- Refrigerated containers for distribution and storage of medical supplies
- Containerised emergency

- Containerised production
- Containerised temporary power supply for humanitarian aid and armed forces
- Etc.
- hospitals & schools

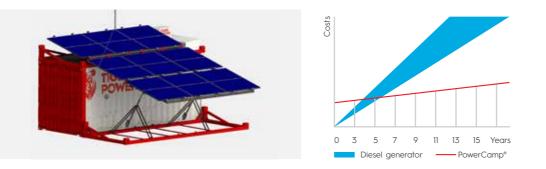
facilities and processes like water treatment & bottling plants

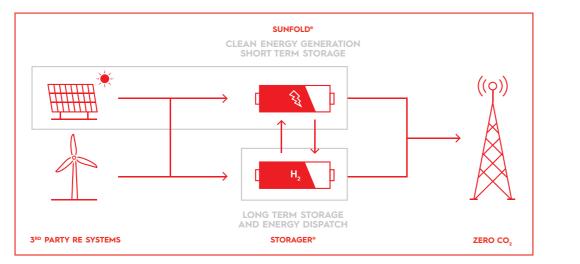


POWERCAMP® OUTRUNS FUEL

Used in combination, Tiger Power's innovative Sunfold® and Storager® make up a PowerCamp®, which truly makes you independent from fossil fuels. Moreover, by combining short-term storage inside Sunfold® with long-term storage inside Storager®, PowerCamp® solves the intermittency problem that typically is associated with renewable energy plants.

Despite its higher initial investment, PowerCamp® outruns any local fuel-based power generation in just a couple of years. Indeed, depending on the actual fuel cost when delivered on-site, thus including transport and possible pilferage, the investment is set-off against the annual fuel cost in approximately 3 to 5 years. Tiger Power can assist you in attracting and securing the right financing in order to keep your Capital Expenditures in the first years limited to the expected Operational Expenditures of a diesel generator. Once repaid, you can enjoy worry-free continuous zero-emission power for up to 20 years.





TIGER POWER

Tiger Power brings zero-emission, plug & play, 24/7 autonomous, transportable renewable energy solutions to the off-grid power supply market. Storager® is a proprietary design by Tiger Power.

OTHER PRODUCTS AND CONCEPTS BY TIGER POWER:

- SUNFOLD®: A modular, containerized, plug & play solar power system with integrated short-term energy storage.
- POWERCAMP®: An integrated power supply solution based on Tiger Power's Sunfold® and Storager® technologies.
- Tiger Power envisages the development of complementary plug-and-play products e.g. a small-scale containerised wind turbine, a containerised irrigation system, etc.

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CLEAN ENERGY MADE EASY





A LONG-TERM ENERGY STORAGE UNIT

Containerised · Modular · Reliable · Long lifetime

WHEN TO USE STORAGER®?

Storager® is an innovative long-term energy storage unit that truly unlocks the full potential of decentralized production and usage of renewable energy. Storager® supplies permanent and fail-safe electrical energy with the highest quality of service and so it avoids the necessity of any other back-up generator.

Storager® can either operate in combination with existing Renewable Energy plants and/or Sunfold®, another Tiger Power Solution. Thanks to Tiger Power's proprietary Energy Management System which is predictive and self-learning you can enjoy worriless 100% clean energy day and night all through the year, up to 20 years long.

WHAT DOES STORAGER® DO FOR YOU?

Storager® is a modular energy storage concept that suits your storage and inlet/outlet power requirements. Storager® can accept up to 25kW inlet power and can power a continuous AC or DC-load of up to 10kW. Typically, the energy storage capacity based on self-generated hydrogen is approximately 100kWh.

Additionally, Storager* is standard equipped with an integrated back-up facility that provides an additional 200kWh autonomy. For example, in case of a continuous load of 3kW the total autonomy is ± 5 days! For larger sites or for higher storage capacities multiple Storagers can easily work in parallel.

STORAGER®
MAIN
TECHNICAL
FEATURES

Seperated climatized eletrical room

Water treatment unit

O4 Integrated control system of the hydrogen cycle

Rainwater collection tanks

Seperated hydrogen storage

unit with one common vent line

4 lightweight hydrogen storage tanks

industrial hydrogen racks

Electrolyser & fuel cell cabinets

Electrical dispatch cabinet with embedded controller for communication & processing

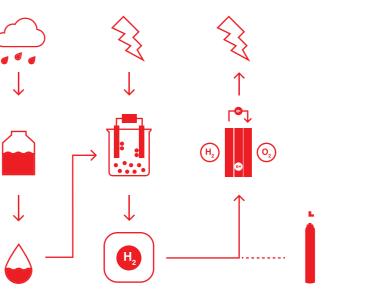
Central
connection board
for sunfolds & ac/
dc power supply
to customer



LONG-TERM ENERGY STORAGE PRINCIPLE

Each Storager® houses a complete hydrogen cycle whereby the energy is stored as a pressured gas. Storager® collects, stores and prepares rain water before it is separated in oxygen and hydrogen. The hydrogen is stored in high-pressure vessels and is converted into electricity by letting it react again with oxygen. As such, renewable energy can be stored for longer periods making use of nothing else than rainwater. And as the hydrogen is stored in conventional pressure vessels this unique energy storage concept, unlike batteries, does not suffer from self-depletion.

As the storage and transport of hydrogen within the process is based on differential pressures, Storager® has no moving parts e.g. pumps which makes the system much less prone to failures. Storager® is designed for over 10.000 storage cycles with not more than one maintenance intervention per year.



PREDICTIVE AND SELF-LEARNIG ENERGY MANAGEMENT SYSTEM

As Storager[®] is designed to operate in remote and harsh locations where no supervisory manpower is available, each unit is equipped with a reliable control unit that acts as a local energy dispatcher.

Storager® will also control the energy production and short-term storage by Sunfold® or by a 3rd party Energy plant. Storager® is managed by Tiger Power's cloud based predictive and self-learning energy Management System with associated user interfaces and apps.



Cloud Provider

Self-learnig algorithms

Tiger Power Operations Center

- Application Server
 Database Server
- Simulation softwareWeb-based Remote

upgrades

- Monitoring

 Maintenance planning

 Controller Algorithm
- ____

POWERCAMP°

· Energy Dispatcher with

- Control algorithms

- local start-stop

at location

Customer Operations

- App for Business
 Executives,
- · Opertions Managers, etc.