ZIMPERTEC

From Basic Electrification to Productive Use of Renewable Energies:

01

The Role of Reliable Solar Home Systems Thriving Sustainability

OFF-GRID POWER CONFERENCE 2022

12.05.2022

MEMBER OF Alliance for Rural Electrification Shining a Light for Progress

Proud member of GOGLA

Who we are?

We want to contribute to a flourishing social life and create equal opportunities for everyone.

Objective

Zimpertec, founded 2011, has the objective to provide highly reliable solar off-grid electrification and lighting systems for home and productive use.

How we work

By developing in Germany and manufacturing in a 100% owned factory in China we can surpass market expectations concerning quality and price.

Our Portfolio

We accelerate rural electrification with our wide portfolio ranging from basic DC to advanced AC solar home systems.

German Engineering

ZIMPERTEC

Portfolio Overview

3 Years Warranty
SHS

Zimpertec provides one of the largest portfolio of Off-Grid SHS in Europe.

Power Brick
12/ 24/ 36 Wh

Basic electrification 3.2V system with 2-3 lamps and phone charging

LSX
98 Wh to 294Wh

Applicable for small households to power 12.8V DC lamps, phone, fans, radio, laptop and TV.

SHS 25/50
320 Wh to 640 Wh

Applicable for households, shops to power 12.8V DC lamps, phone, fans, radio, laptop, TV and fridges.

LS DC 100
1.28 kWh to 1.92 kWh

Applicable for large DC 12V/ 24 V applications. In households, medical centers, and large cooling applications.

LS AC 0.3-07
0.3-0.7 kW, 0.64-1.28 kWh

Applicable for smaller shops, offices, health stations for basic AC applications.

LS AC 2kW
2kW, 2.56-5.12 kWh

Applicable for shops, offices, medical centers to power 110/220 AC and 24V. Also applicable for UPS systems.

Priority SDGs

Reliable Solar Home System can directly or indirectly benefit all sorts of SDG's.

Impact 1#

Energy Access / Energy Independence

Impact 2#

Transport

Impact 3#

User Centric Design

Sustainable Technology by SHS

Part 1: Energy Access /Indepence

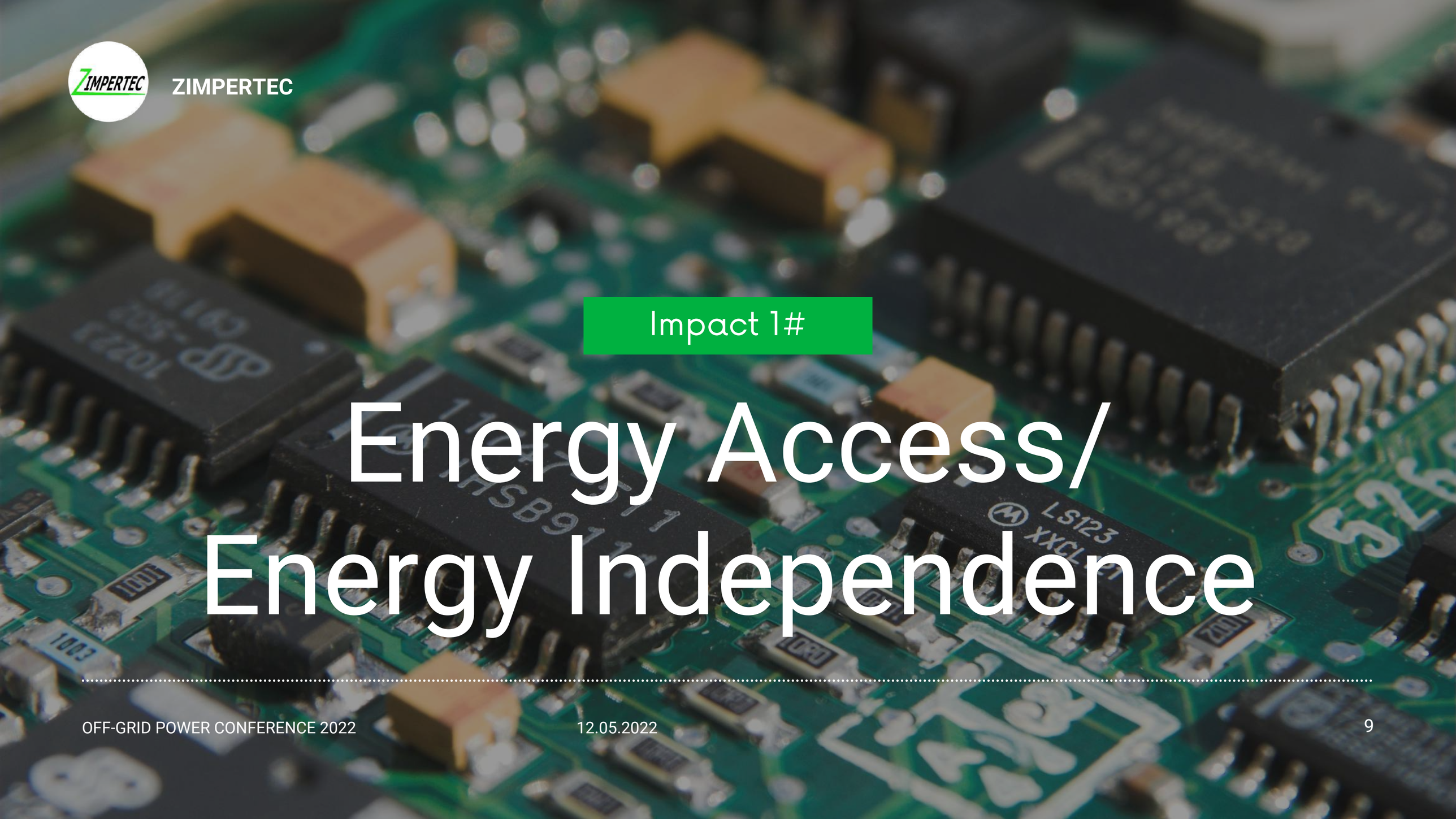
- For LFP Charge Controller,
- LFP Battery,
- Single Cell BMS,
- Strict Quality Measurements,
- Plug and Play Design.

Part 2: Transport

- LFP to reduce shipments, maintenance and replacements,
- Compact Design.

Part 3: User Centric

- Visual system data, Paygo Information,
- Intelligent Algorithms for remaining load runtime,
- System for every demand.



Impact 1#

Energy Access/ Energy Independence

By Reliable Tech

Single Cell BMS

Advanced battery management system designed for off-grid applications. Including low-battery warnings, single cell monitoring.

LiFePO4

Utilizing LFP batteries for secure off-grid applications, with a high energy density. Our cells support between 2000-3000-4000 cycles depending on the solution.

Plug & Play

All Zimpertec product are designed to be implemented in an easy way without complex wirings.

LCD Display

The LCD provides valuable system information, failure codes and energy usage training by operation time calculation.

1-Year Datalogger

Supports analyzing the systems in the field applications. Monitor consumption harvests and help to detect system application problems or failures.

PayGo

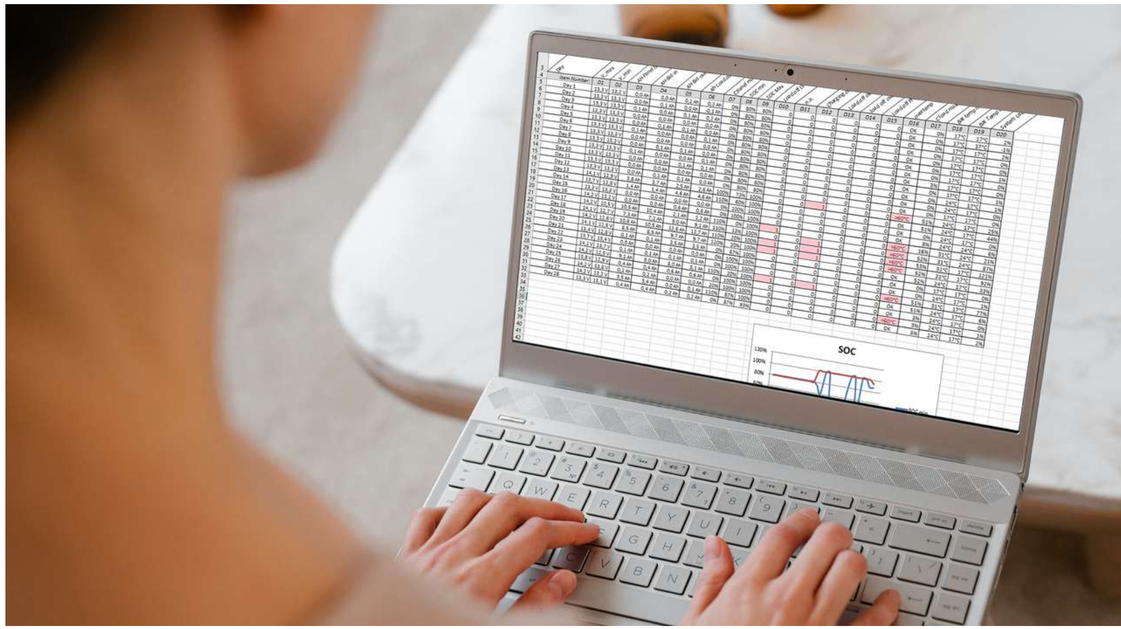
All our systems are PAYGO enabled, with a Zimpertec own developed PayGo switch.
To offer an easy-to-use integration to existing PayGo Platforms

Data Analytics

Embedded 1-Year Datalogger

The datalogger does support analyzing the systems in the field applications. Monitor consumptions, harvests and help to detect system application problems and system use of the end-user.

- SoS Values: summary of values for basic system performance and use,
- Day Values: overview about detailed data within the last 28 days,
- Month Values: overview about monthly key figures of the last 12 month,



Impact 2#

Reduce Transport

Transport Optimization

Compact Design

LFP enables compact design to lower space needed in logistics.

"Bring Once"

Durability and Reliability is key, as solar home systems are often mounted on remote regions.

Remote Support

Failure codes and advanced LCD display to enable phone support.

Impact 3#

User Centric Design

User Centricity

PayGo Metrics

Allows easy Token application and the screen **provides clear information** about Payment status and Error messages.

Remaining Runtime

Zimpertec Algorithm which shows in hours the estimated remaining load runtime of an appliance.

System Failure Codes

First do-it-yourself manner the user is able to resolve the issue themselve, in combination with the systems manual.

The Right Solution for the right demand

Contact Us

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German Engineering