

GREEN HORIZON

FULLY INTEGRATED ELECTRICITY STORAGE

An ESS that increases your power plant's
actual production 20-40%

Application areas:

- a) renewable power plants
- b) grid network
- c) isolated areas (islands, jungles)



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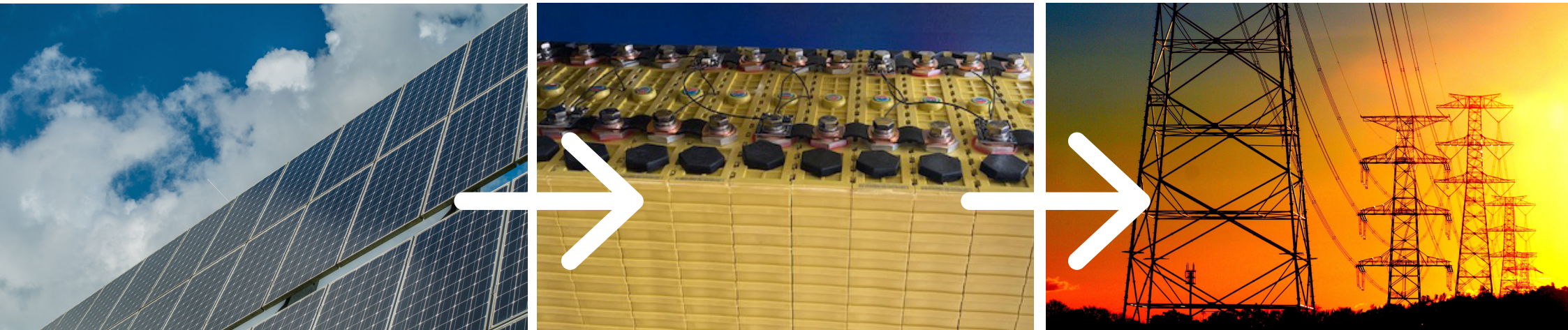
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greenhorizonenergy.eu

- 1 GREEN HORIZON ESS** charges energy directly from the renewable power plants
- 2 GREEN HORIZON ESS** can take enormous quantity of energy in a short time window – circa 25 MWh for a 125 MWp power plant within 20 minutes
- 3 GREEN HORIZON** can manage 8-12 up-load / down-load cycles per day
- 4 GREEN HORIZON ESS** has no energy drain, self dis-charge and capacity derogation over its lifespan of 30 years



Green Horizon ESS
charges energy
directly from the
renewable power plants

1. Green Horizon charges with High voltage DC
2. Green Horizon electric structure is configured to accept the electricity directly from the green power plant
3. Green Horizon electric structure and software ensure the equal flow of electricity within the system

Green Horizon ESS
can take enormous
quantity of energy
in a short time window

1. Green Horizon charges with high voltage DC
2. Green Horizon inverter is configured to accept electricity directly from the green power plant
3. Green Horizon electric structure and software ensures equal flow of electricity within the system
4. Green Horizon software intervenes instantly to ensure equal charging of the blocks
5. The blocks used are able to accept big „shock”

Green Horizon ESS
has no energy drain,
self dis-charge and
capacity derogation

1. Simplified electric structure (432 big blocks wired together vs 283,000 cells of a competitor)
2. The solenoid switch of every block switches on / off to ensure equal use of the blocks
3. A proprietary software controls the flow of electricity, the charging / discharging of the blocks
4. Since all blocks are always charged / discharged equally – they are used equally – the ESS does not wear out

- **Green Horizon uses monolith blocks**
 - **Green Horizon electric structure (wiring, switches, modules) is simplified using a proprietary technology – flow of electricity is controlled on a real time basis (low malfunction, maintenance)**
 - **Instant report to cell phone with definite location / block**
 - **No cooling needed – no energy wasted on cooling**
- **Charging, discharging at 3C without draining**
 - **Life span of 30 years**
 - **Not steel case – ABS case**
 - **Only 3% iron vs 43%**
 - **1,2 MW power load without heat, drain = circa 25 MWh for a 125 MWp power plant within 20 minutes**
 - **We take the blocks for re-cycling**

