aeonus: IMPLEMENTATION OF MOBILE ESS TO REPLACE DIESEL GENERATOR & A NEW ERA OF POWER LAST-MILE
## COMPANY INFORMATION

**aeonus**

### Sustaining our planet

<table>
<thead>
<tr>
<th>Name</th>
<th>aeonus, Co., Ltd</th>
<th>Established</th>
<th>Feb 04, 2020.</th>
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#### Business Area

- **Products**: indego (power last mile), xEV battery pack
- **CO2 solution**: RE100 solar energy subscription & Carbon Neutral consulting
- **Service**: engineering development related with battery packing

#### Employee

- 25 (11 engineers)

#### Contact

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- **E-mail**: aeon@aeonus.co.kr

#### History

<table>
<thead>
<tr>
<th>Year</th>
<th>Events</th>
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| 2020 | 02. First step to make the earth sustainable  
      | 04. Business Contract with BMW Group with respect to Reuse Battery. |
| 2021 | 03. Approval of Special demonstration of Regulatory Sandbox  
      | 05. Minihydro MG project in Georgia Consulting(ADB)  
      | 07. MOU with Pakistanis’ Zisolar for EV charging |
| 2022 | 05. Begin commercial service, indego 50  
      | 08. Established Corporation in North America  
      | 09. Installment of 3D CT NDT battery test machine  
      | 11. Business Discussion with EGAT from Thailand |

### Preproduction factory at Hwasung

### Gunpo pilot production

### 3D CT Imaging Lab

### aeonus R&D Center 1

(ESS System R&D)

### aeonus Jeju R&D Center 2

(xEV republished battery diagnostic evaluation and BM demonstration)
How do we supply electricity & reduce pollution?
Diesel generator: noise/ fine dust/ GHG

Indego: replacing diesel generator

Times are changing

Demand for replacing combustion generators
Demand for mobile EV charging
Demand for saving fuel cost
1. Mobile indego

Power output: 50kW
Voltage output: 3phases 380V~440V
7kW AC type1 or, 120kW CCS1
Capacity: 164kWh

Quick moving ability

2. Package indego

Power output: 50kW / 250kW
Voltage output: 3phases 380V~440V
Capacity: 253kWh / 422kWh

Large capacity

**ENVIRONMENTAL**

- Noise Reduction: 100%
- Dust Reduction: 100%
- CO2 Reduction: 80%

**ECONOMICAL**

- Fuel Cost: 90%
- Carbon Credit: 80%

**Use Case: 10MWh generation**

**Diesel Generator 10MWh**

- Fuel Cost USD10,000@6,400L
- CO2 emission 17toe

**indego 10MWh**

- Charging Cost US$500@5cents/kWh
- Carbon Credit 12toe acquired

Super savings at fuel cost and maintenance
Application 1. Micro Grid
Application 2. Mobile EV Charging Station
Application 3. Disaster and Emergency Area
Battery as a Service

- Cost Saving & Remote Monitoring
- Life Span Protection
- Evaluation & Categorized
- Battery Inspection & Usage Determination

Source: SK E&S
BaaS is the new market

Source: SK E&S
Sustaining our planet

Used-Battery Application

Energy Storage System

ESS (1MW ~)
ESS (250kw ~ 1MW)
ESS (25kw ~ 250kW)
UPS, ESS (200W ~ 15kW)

Electrical Mobility

Golf Cart (7kW ~ 15kW)
Electric Wheelchair (1kW ~ 5kW)
E-Scooter (0.5kW ~ 2.5kW)
PM (50W ~ 500W)

Used-Battery Applications
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Process of making products from reuse batteries

Battery 2\textsuperscript{nd} life

Categorized by diagnosing Spent Batteries

Inspection using Electric Test
Advanced Battery Inspection

Test Categories
1. Welding, Sealing conditions
2. Electrode figures (Gap, fold)
3. Cracks, impurities
4. Overhang
5. Cell misalignment
6. Resin overflow
7. Gas pocket
8. etc.
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