













# aeonus

## **Sustaining our planet**

Name	aeonus, Co., Ltd	Established	Feb 04, 2020.
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	Phone +82-31-8064-1277~8 Fax +82-331-8064-1279 E-mail: aeon@aeonus.co.kr		
History	711711	<ul><li>02. First step to make the earth sustainable</li><li>04. Business Contract with BMW Group with respect to Reuse Battery.</li></ul>	
	2021 05.	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 08. 09.	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	











Groundbreaking ceremony for 8.25MW RE100 with ABInBev



3D CT Imaging Lab



Preproduction factory at Hwasung



aeonus R&D Center 1 (ESS System R&D)



aeonus Jeju R&D Center 2 (xEV republished battery diagnostic evaluation and BM demonstration)



Gunpo pilot production

**OUR CONCERN** 











How do we supply electricity & reduce pollution?

#### Sustaining our planet | aeonus |

## 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**

100% **Noise Reduction** 100% **Dust Reduction** 



80% **CO2** Reduction

#### **ECONOMICAL**

90% **Fuel Cost** 80% **Carbon Credit** 



## **Use Case: 10MWh generation**

### **Diesel Generator 10MWh**

indego 10MWh

Fuel Cost USD10,000@6,400L CO<sub>2</sub> emission 17toe

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

Super savings at fuel cost and maintenance



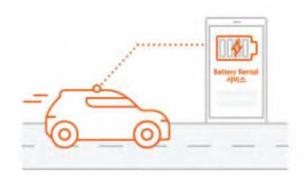








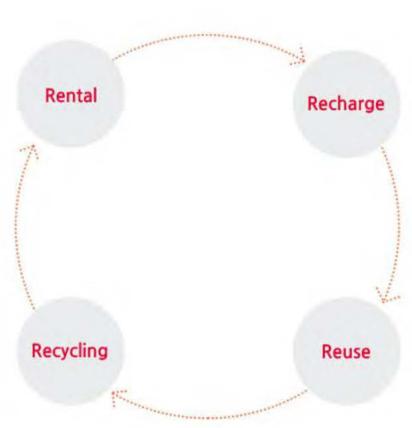




**Cost Saving & Remote Monitoring** 

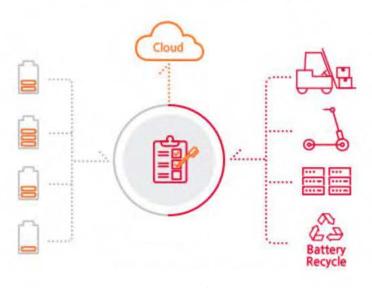


**Evaluation & Categorized** 



4

**Life Span Protection** 



**Battery Inspection & Usage Determination** 

Source: SK E&S



Source: SK E&S





**ESS** (1MW~)



**ESS** (250kw~1MW)



**ESS** (25kW ~ 250kW)



UPS, ESS (200W~ 15kW)



**Used-Battery Applications** 





Electric Wheelchair (1kW~5kW)



E-Scooter (0.5kW~2.5kW)



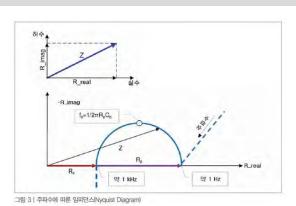


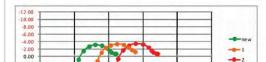


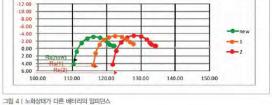


## Battery 2<sup>nd</sup> life









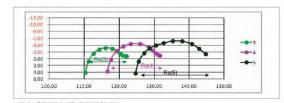
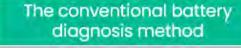


그림 5 | 충전상태가 다른 배터리의 임피던스

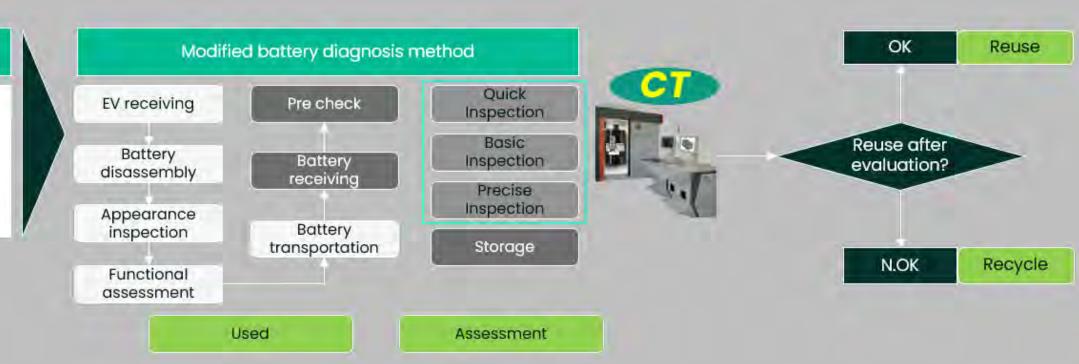
Inspection using Electric Test

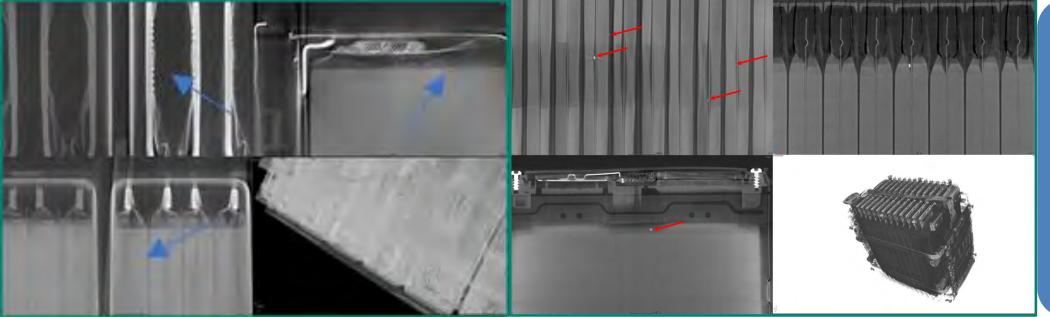




Only Electrical evaluation

No evaluation of the safety of poor progress and the deformation





#### **Test Categories**

- Welding, Sealing conditions
- Electrode figures (Gap, fold)
- Cracks, impurities
- Overhang
- Cell misalignment
- Resin overflow
- Gas pocket
- 8. etc.



