



Battery Platform
for
e-Mobility & Smart Grid

Daisuke Suzuki
Founder & CEO

Company Overview

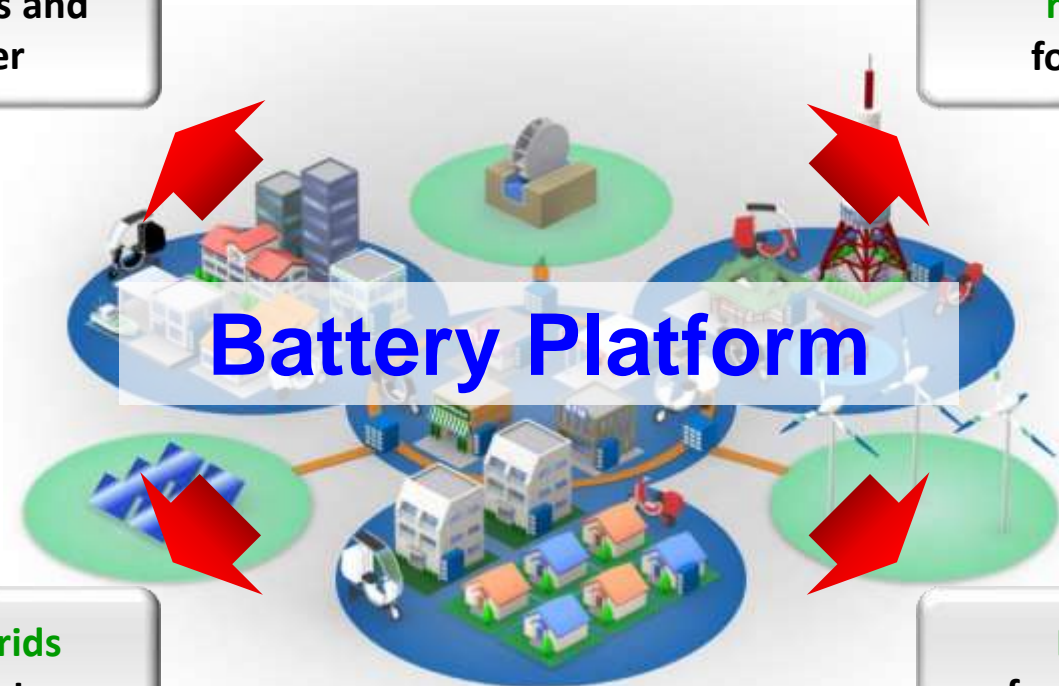


Name	RESC, Ltd.
Address	3-19-4 Kamata #701 Ota-ku Tokyo 144-0052 Japan
Founded	2011 January 27th
Capital	10,000,000JPY
Founder & CEO	Daisuke Suzuki Degrees: Mechanical Engineering from MIT & MBA from University of Michigan
Vision	Realization of the "next-generation smart city" that is resilient to natural disasters, is carbon-neutral, and has widespread electric mobility
Mission	Popularization of battery sharing

Our Envisioning Smart City

Strengthen the resilience
against earthquakes and
extreme weather

Massively introduce
renewable energy
for decarbonization



Construct smart grids
for more efficient
energy use

Electrify vehicles
for environmental and
emission gas measures

Our Mission

Realize **smart cities**
based on our **battery platform**
that enables **battery sharing** among users

e-Mobility



Battery



Smart Grid



Target Markets & Problems

e-Mobility

Segments:

- Delivery
- Sharing Service
- Retail



Global Market Size*

Year 2019: 200 GWh
Year 2030: 3,300 GWh
Year 2050: 7,500 GWh

Energy Storage (Smart Grid)

Segments:

- Backup Power
- Portable Power
- Renewable Energy
- VPP, DR, Micro-Grid



Global Market Size*

Year 2019: 30 GWh
Year 2030: 370 GWh
Year 2050: 3,400 GWh

Problems

High Cost of Batteries

Degradation of Batteries

High Reuse/Disposal Cost of Batteries → Data tracing is critical for CFP and LCM

Risk of Battery Emptying on Roads

Long Battery Charging Time



Conventional Battery Charging for e-Mobility

With the government leading the charge for electric vehicle adoption, DHL Express Thailand got a head-start with its recent addition of 50 electric motorcycles to its delivery fleet.



Solutions by Battery Sharing

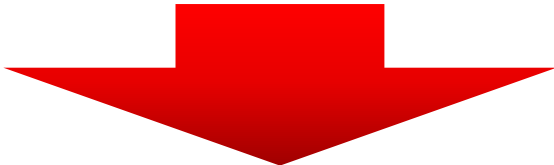
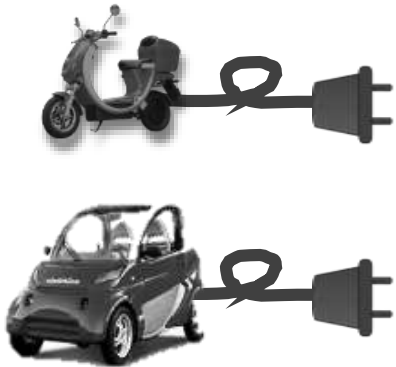
Click the below link to play the movie

English https://youtu.be/NJ_zKXZUm9Y

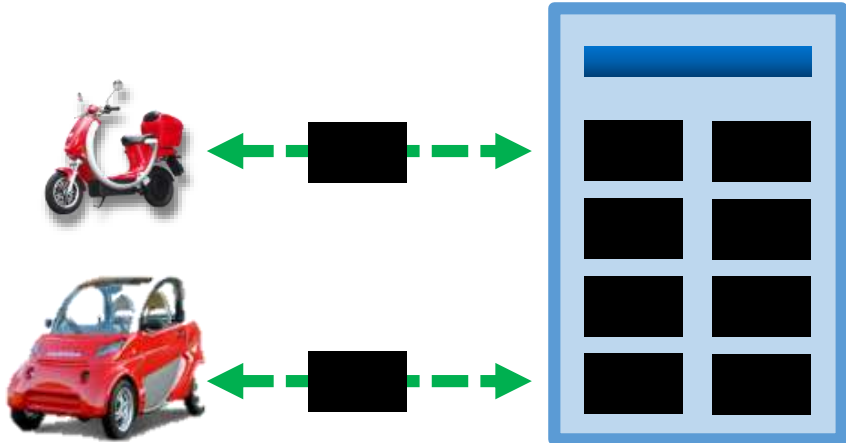


Solutions by Battery Sharing

Conventional
Battery Charging



Battery Swapping



EV Bus



EV Truck



EV Taxi

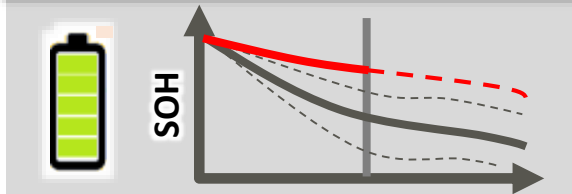


Personal EV

- No more** high ownership cost of battery
- No more** battery emptying risk on roads
- No more** battery charging (time or burden)

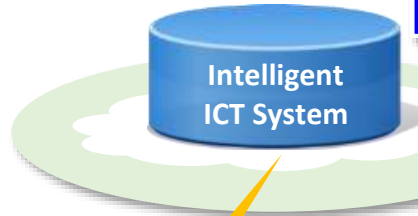
RESC's Core Competences

Battery Life Prediction/Control



Battery Issues

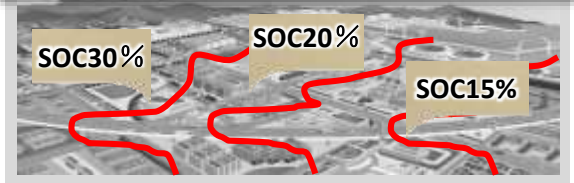
- Battery Degradation
- Battery Data Tracing for Reuse/Recycle/CFP



Own Patented ICT System

- ✓ Big Data-Driven
- ✓ Flexible-Control of Battery
- ✓ Holistic Optimization

Prediction Charging

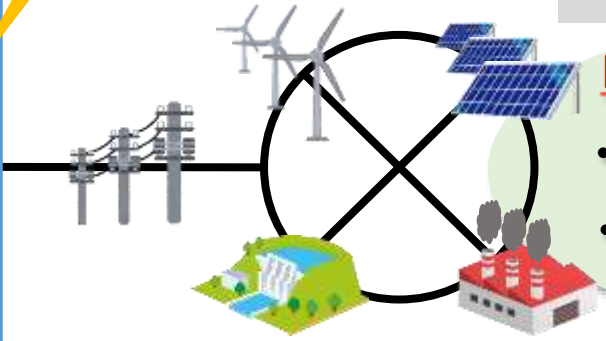
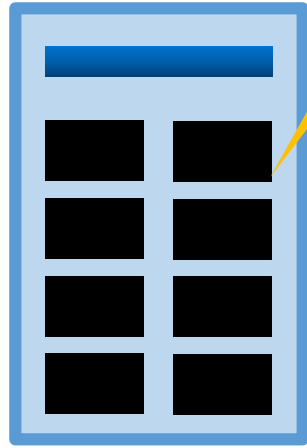
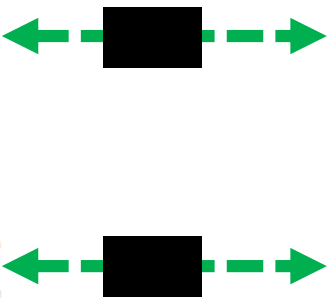


Weather Forecast Charging



Battery Swapping Issues

- High/Low Swapping Demands
- Fast/Slow Charging



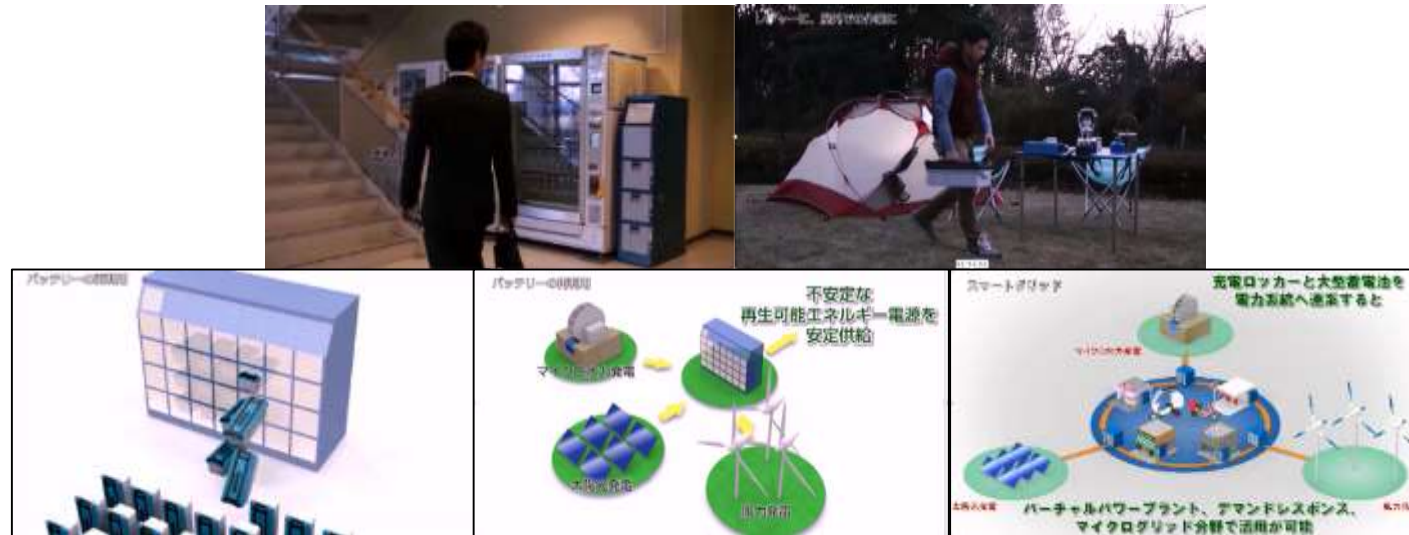
Power Grid Issues

- Demand & Response
- Unstable Renewable Energy Power

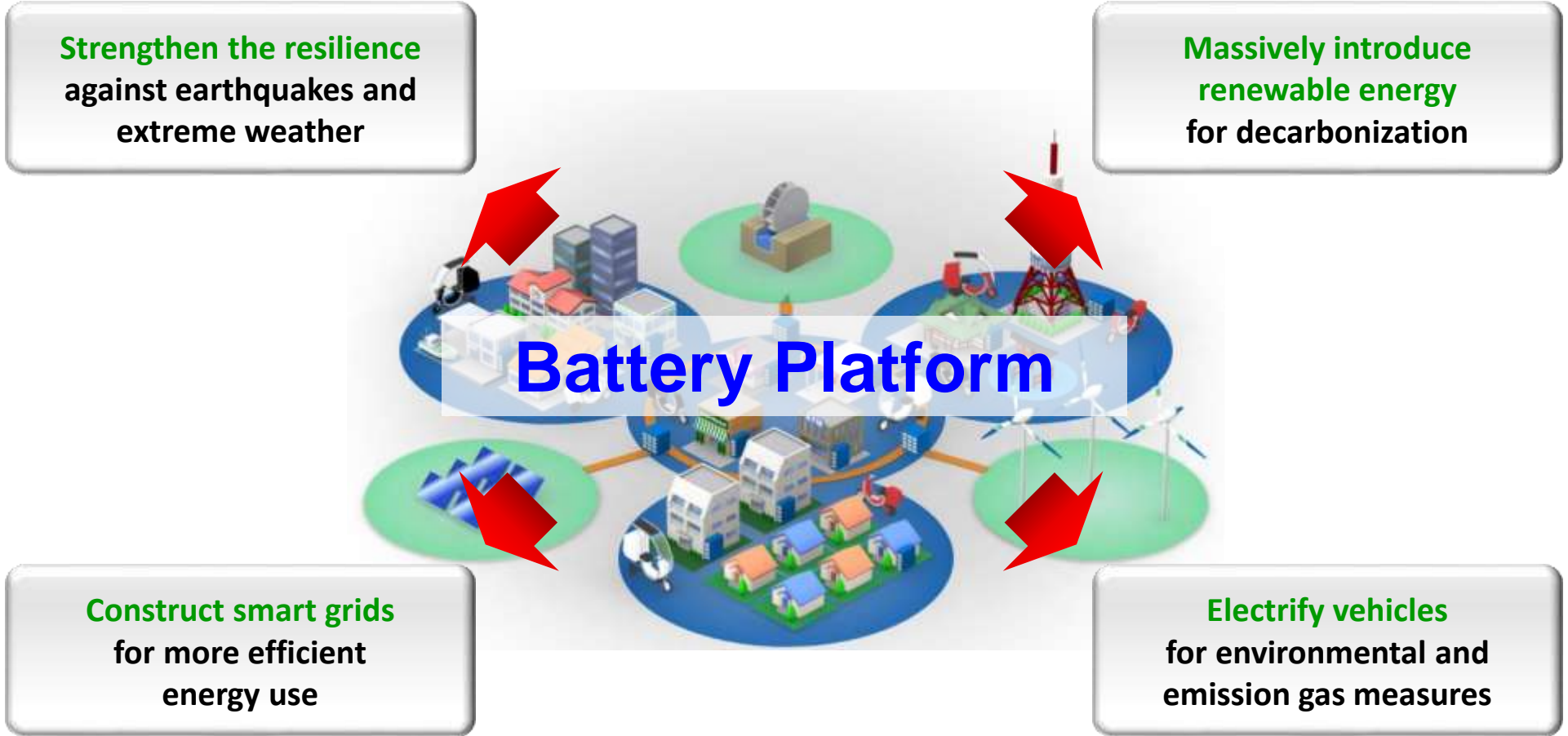
Energy Services

Click the below link to play the movie

English https://youtu.be/3b8KFM3_qq4



Our Envisioning Smart City





RESC, LTD.

レスク株式会社



Battery Platform

THANK YOU

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