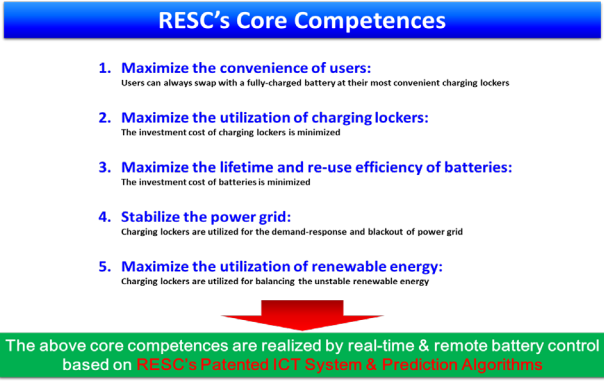



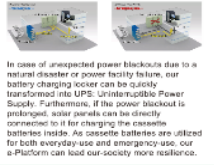








Company Information	Company Name	RESC, LTD.				Industry	Manufacturing / System Integrator	
	Website	http://rescgroup.com/English/index_e.html						
Technology / Solution	Tech/Solution Name	Battery Sharing Platform						
	Which field does the tech/solution contribute to?	Quality Infrastructure and Smart City						
	"Quality Infrastructure" Which category can the tech/solution be applied to?	Road/Bridge	-	Port	-	Airport	-	
		Water and Sewage	-	Power generation /Energy	<input type="radio"/>	Railroad	-	
		Housing	-	ICT	<input type="radio"/>	Others (Free Writing)		
	"Smart City" Which problem can the tech/solution solve?	Traffic/Mobility	<input type="radio"/>	Energy	<input type="radio"/>	Disaster Prevention	<input type="radio"/>	
		Infrastructure Maintenance	-	Community Activation /Sightseeing	-	Health/Medical	-	
		Agriculture, Forestry and Fisheries	-	Environment	<input type="radio"/>	Security	-	
		Logistics	<input type="radio"/>	Urban Planning /Maintenance	-	Others (Free Writing)		
	Key words	AI & Algorithm, Battery, e-Mobility, Smart Grid, Digital Platform						
Overview of the tech/solution	Our e-Platform can be used for battery rental & swap services for e-Mobility (EV, e-Scooter, e-Trike, and etc.) users and various energy services that lead our society to be more sustainable and cleaner. Our patented ICT system and prediction algorithms enable the maximization of user-convenience, economy, and environmental-friendliness for these services.							
Discription of the tech/solution	<p>* RESC, Ltd. has been aiming to realize our vision of the "next-generation smart city" that is resilience to natural disasters, is carbon-neutral, and has widespread electric mobility.</p> <p>* Since we think that expanding and optimizing the use of batteries is essential for this realization, we have developed a unique IoT-battery-orient platform named "e-Platform" that enables battery sharing among users in the various applications and scenarios by the full use of ICT system, prediction algorithms, and Big Data.</p> <p>* Our e-Platform can be used for battery rental & swap services for e-Mobility (EV, e-Scooter, e-Trike, and etc.) users and various energy services that lead our society to be more sustainable and cleaner.</p> <p>* Our patented ICT system and prediction algorithms enable the maximization of user-convenience, economy, and environmental-friendliness for these services.</p> <div style="text-align: center;">  <p>RESC's Core Competences</p> <ol style="list-style-type: none"> 1. Maximize the convenience of users: Users can always swap with a fully-charged battery at their most convenient charging lockers 2. Maximize the utilization of charging lockers: The investment cost of charging lockers is minimized 3. Maximize the lifetime and re-use efficiency of batteries: The investment cost of batteries is minimized 4. Stabilize the power grid: Charging lockers are utilized for the demand-response and blackout of power grid 5. Maximize the utilization of renewable energy: Charging lockers are utilized for balancing the unstable renewable energy <p>The above core competences are realized by real-time & remote battery control based on RESC's Patented ICT System & Prediction Algorithms</p> </div>							
Glocal Expansion	Asia	Already developed	Africa	Consider if requested	Middle East	Considering development	Europe	Considering development
	Russia	Consider if requested	Oceania	Considering development	North America	Considering development	Mid/South America	Consider if requested

	Country	Japan																
	City	Kawasaki City Kanagawa Prefecture																
	Project name	Next-generation infrastructure system demonstration project by Kawasaki City and RESC																
	Project Overview	As a leading and pioneering model project based on the Kawasaki City's Smart City Promotion Policy (formulated in March 2015), a demonstration was conducted to verify the effectiveness of RESC's next-generation infrastructure system "e-Platform", which would contribute to the widespread of electric mobility, efficient energy management, and disaster prevention through the use of cassette-type batteries in the city.																
Case Study	Discription of the project	<p>* In order to realize the basic philosophy of Kawasaki City's Smart City Promotion Policy, the introduction of RESC's new infrastructure system "e-Platform" that combines cassette-type batteries and charging lockers is considered to be one solution. Therefore, in this demonstration, charging lockers were set up at several places including public facilities in the city, and electric two-wheelers were actually used to verify the effectiveness, stability, environmental friendliness, user convenience, disaster response of the system.</p> <p>* Demonstration Details:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Effectiveness and stability of battery system using ICT and big data <input type="checkbox"/> Consistency between the locations/number of electric two-wheelers are the locations/number of charging lockers <input type="checkbox"/> Effectiveness of charging lockers for disaster response <input type="checkbox"/> Appropriateness of product prices, service fees and APP contents <input type="checkbox"/> Environmental friendliness, convenience, etc. of electric two-wheelers <div style="text-align: right;">  </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 22%;"> <p style="text-align: center; background-color: #0070C0; color: white; margin: 0;">1. Battery Rental & Swap</p>  <p style="font-size: 8px;">If you rent our cassette battery instead of purchasing, you can swap it at our battery charging lockers at anytime. Our e-Platform can eliminate your various stresses associated with using e-Mobility, such as running out of battery on the go, the hassle and waiting time for battery charging, and repairing a battery when degraded.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 22%;"> <p style="text-align: center; background-color: #0070C0; color: white; margin: 0;">2. Mobile APP</p>  <p style="font-size: 8px;">From our cassette batteries and battery charging lockers, the battery data is periodically collected at ICT system for constant-monitoring and management of the individual batteries. As a result, our e-Platform can provide via various mobile APP services on your smartphones, such as checking the remaining battery level and driving distance, finding your nearest battery charging lockers, and reserving for battery swapping.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 22%;"> <p style="text-align: center; background-color: #0070C0; color: white; margin: 0;">3. Emergency Power</p>  <p style="font-size: 8px;">In case of unexpected power blackout due to a natural disaster or power facility failure, our battery charging locker can be quickly transformed into UPS: Uninterruptible Power Supply. Furthermore, if the power blackout is prolonged, solar panels can be directly connected to it for charging the cassette batteries inside. As cassette batteries are utilized for both everyday-use and emergency-use, our e-Platform can lead our society more resiliently.</p> </div> <div style="border: 1px solid black; padding: 5px; width: 22%;"> <p style="text-align: center; background-color: #0070C0; color: white; margin: 0;">4. Portable Power</p>  <p style="font-size: 8px;">By connecting a duplicate AC-DC inverter, our cassette battery can also be used as a portable power source for some occasions such as camping and construction work.</p> </div> </div>																
	Website of the project	http://rescgroup.com/news/img/kawasaki_B.jpg																
SDGs	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
																		
Note (Award etc.)	<p>* AWARD: 2018 CHUBU Electric Power Business Model Competition (2nd Place) 2012Fujisankei Presentation Competition (3rd Place)</p> <p>* ICT System Patents: Japan: 5 Patented, 1 Pending, China: 2 Patented, 3 Pending, Taiwan: 1 Patented, 1 Pending, North America, South America, EU, Oceania, South East Asia, India, & Korea: 1 Pending</p>																	