

Towards a greener tomorrow

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Presentation to investors

DISCUSSION OUTLINE



1 CONTEXT

- 2 TECHNOLOGY & SOLUTIONS
- 3 CASE STUDY
- 4 MARKET OPPORTUNITY
- 5 ABOUT OORJA ON MOVE





Context

WHY WE NEED ELECTRICAL VEHICLES



EVs inherently more efficient at turning energy into miles driven; in fact 75% v/s 25% in ICE

EVs can be powered by Electricity produced from multiple sources

Greener than gasoline powered Cars.

Average driven range per day is 120 kms

Offer better driving experience



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CHANGES ARE IMMINENT

- Courts ask Delhi Government to Create
 E-rickshaws Recharge Stations
- E-rickshaws stealing power worth Rs 216cr annually: Discoms
- Electric two-wheeler market picks up speed
- Mercedes-Benz to roll out Electric Cars and Plug-In Hybrid cars In India by 2018





CHANGES ARE IMMINENT



THE ECONOMIC TIMES ET Bureau New Delhi Nov 3, 2014 – Lithiumion batteries to reduce cost and save energy for telecom tower companies. Telecom tower companies are increasingly installing lithium-ion batteries for uninterrupted power supplies to their towers, with Reliance Jio Infocomm a key adopter of this longer-lasting and cost-effective power storage technology that is also friendlier to the environment compared with other traditional options.

Hindustan Times

Jan 13, 2012 – "TRAI mandates 50% of the towers in rural and 20% in urban areas to run on a mix of renewable energy and grid power by 2015. By 2020, the telecom companies have to convert 75% of rural towers and 33% of urban towers to run on hybrid power.





Green Technology & solutions

GREEN ALTERNATIVES FIT FOR POWERING EVS



RESOURCE POTENTIAL

TECHNOLOGY AVAILABLE

MARKET ACCEPTANCE & COMMERCIAL VIABILITY

SUPPLY CHAIN READINESS

ADOPTION POSSIBILITY



SUN TO WHEEL

ALL ENERGY ON EARTH COMES FROM SUN

- 35Mn TerraWhr Solar energy strike earth yearly
- Energy bill REDUCTION BY >50%
- Long term FIXED PRICE PPA for EV charging stations
- Virtually ELIMINATES DIESEL usage
- Deflating prices will help increase the demand



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Case study

GREEN MOTORING HAS ARRIVED



conditioned, modern and should the pain that invesconverted to electric I expect the tors go through, will be 50% less for hus-users as who have taken operational cost of such buses ioan frem banks

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	COST COMPONENTS	PETROL	DIESEL	EVs	'Running buses on electricity will reduce fares by half'
1	Transportation spend	5000	5000	5000	Road transport and highways minister Nitin Gadkari has an ambitious plan to operate all state-run buses on electricity. He said the move will not only reduce pollution but also help cut fares by 50% Excerpts of an interview with TOI:
2	Mileage km per ltr	20	20	121 km/24Kwh	There are several issues limited to pollution caused by dissel whether to draw the several several distribution of the several distribution to the government of the several distribution of the several distribution compared dised used there are the several distribution of the several distribution of the several distribution budget, Ower 10 compared high years matching and the budget, Ower 10 compared high years matching and the budget, Ower 10 compared high years matching and the budget of the several distribution of the several distribution of the budget of the several distribution of the several distribution of the budget of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several distribution of the several
3	Cost per ltr	80	60	5.75	which came now pointing. The face is 10 high enersy for resource B is find to correspond below we not out a SPV (ESV). On an observation is 80 MoV and correspond making now service is 2000, the face is 10 million corres is 2000, the face is 10 million corres from which are selfficient on resource in the face is 10 million corres from which are selfficient on resource in the face is 10 million corres from which are selfficient on resource in the face is 10 million corres for self-self is 10 million correspond to the face is 10 million correspond from which are selfficient on resource in the face is 10 million correspond for self-self is 10 million correspond to the face is 10 million correspond for self-self is 10 million correspond to the face is 10 million correspond for self-self is 10 million correspond to the face is 10 million correspond for self-self-self is 10 million correspond to the face is 10 million correspond for self-self-self is 10 million correspond to the face is 10 million correspond for self-self-self-self-self-self-self-self-
4	Consumption in Ltr	63	83	870 KWh	What is the plan for clean public that is not enough many between plants. The second public that is not enough the second
5	Range/month	1260	1660	3509	• for performing the first final state of the state of
6	Range/year	15120	19920	42108	Simprovement of radia stored account, Improvement of introduced Starforms, ravel time and saves fuel ravel time and saves fuel account of the store stored star introduced Starforms. Several stored star introduced Starforms, ravel time and saves fuel account of the store stored star in the store stored starforms. Several starforms, starforms, stored stored starforms, stored stored stored starforms, stored stored starforms, stored stored starforms, stored stored stored starforms, stored stored st
7	Extra Coverage	-4800	-	22188	tigher speed. We don't ave enough funds to build what dysordo' what dyso
8	Savings in INR (diesel as base)	-19200	-	66564	Noney Precisit in the highways sector? Projects were availed with monitability of the sector many case, and they do life hand in the sector hand the case it many case. The sector hand is an extension of the sector case it many case. The sector hand in the sector hand in the sector hand in the sector hand in the sector hand in the case it many case. The sector hand is an extension of the sector hand the sector hand is an extension of the sector hand in the sector hand in the sector hand is an extension of the sector hand in the sector hand is an extension of the sector hand in the sector hand is an extension of the sector hand in the sector hand is an extension of the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is an extension of the sector hand is the sector hand is an extension of the sector hand is
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Rental DG trolley

ESS VALUE CHAIN



Oorja on Move

Value chain Optimization by Backward integration from Module to Sub-cell level

MAKE IN INDIA – OOM HAS EXPANSION PLANS TO SET UP MANUFACTURING IN 2017-18

REMOTE MONITORING SYSTEM

FUNCTION



Central Server



- Monitor generation & consumption
- Control remotely
- Collect & aggregate data
 - Aggregate data by circle, operator, location
- Disseminate data
 - Access by circle, location, operator, specific site
 - Display and analyze daily, weekly, monthly data



System health and performance





FOR EACH SITE, SYSTEM HEALTH, PERFORMANCE, POWER GENERATION AND CONSUMPTION DATA IS COLLECTED AND SENT TO CENTRAL SERVER FOR AGGREGATION







Market opportunity

MARKET DISTRIBUTION



ESS Estimated Market potential (16445 MW) through 2020



Energy Storage is all around us in our Modern lives

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EV & STORAGE TECHNOLOGY ROAD MAP



EV INDUSTRY VALUE CHAIN OPPORTUNITY TO ENTER NEW FIELDS





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About 'Oorja on Move'





BUSINESS VERTICALS focusing on Energy & Smart Grid Solutions, Battery Storage, EV Charging Infrastructure, Telecom Infrastructure, Infrastructure for Metals & Mining

8 OFFICES ACROSS INDIA at Gurgaon (HQ), Delhi, Manipur, Lucknow, Ghaziabad Jaipur, Raipur, Pune

300+ SOLAR INSTALLATIONS Experience for Telecom BTS Sites have been completed

200+ Green Energy Storage (GES) Solution for Telecom BTS Sites are executed



"THANK YOU"

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