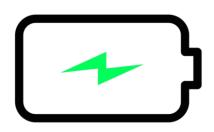


Introduction

- Incubated at the "TIDES Incubation Centre" of IIT Roorkee from 2015-2017
- Has emerged as India's leading nano technology company with established cutting edge expertise in the wonder material i.e. "Graphene"
- Focused on building (i) alternative energy storage solutions for advanced EVs and (ii) electrification of commercial vehicles ranging for 2Ws, 3Ws to LCVs and HCVs
- 3 key technologies: "Fast Charging Electric Vehicles", "Graphene Based Supercapacitors" and "Aluminium Fuel Cells (for Long Haul LCVs and HCVs including buses)"
- Raised US\$ 1 million between 2017-2019 from Metaform Ventures, Hemant Luthra (Chairman, Mahindra CIE Limited), Delhi based Micro VC Firm GEMS Partners and other leading angel investors in India. Log9 has raised US\$ 4 million Series A Investment from Sequoia Surge & Exfinity Venture Partners in September 2019.
- Log9 recently raised US\$ 8.5 million Investment in an Series A+ round led by Amara Raja Batteries.
 Other Investors in this round include AC ventures (Indonesia), Sequoia Surge, Exfinity Venture Partners.
- Log9 is deeply honoured to have **strategic angels** on board as a part of its Series A+ round Rajesh Yabaji and Chanakya Hridaya, Co-Founders of logistics industry Unicorn Blackbuck; Rajesh Ramaiah, Partner, Premji Invest; Desikan Sundarajan, MD, Equinor and Faiz Mayalakkara, Director Investments, Emirates Investment Authority.



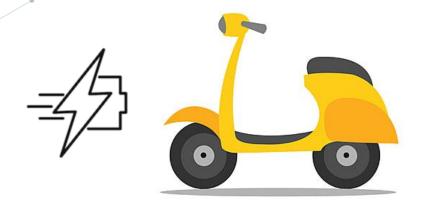




High Power Density Energy Storage for Rapid Charging of Electric Vehicles



Solving challenges of traditional Li-Ion batteries for mass adoption of EVs across automotive platforms



Rapid Charging Battery Packs

- For Intra City Commercial Fleets
- 10x Life
- <15 minutes full charge



Aluminum Fuel Cells

- For Inter City Commercial Fleets
- 10x Range/Battery Weight
- Refuellable in few minutes



Battery capacity limits faster charging of Electric vehicles

'Fast Charging isn't Fast Enough'

Other Challenges include:





Low Acceleration due to lower C-rates

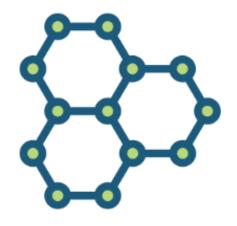


Faster degradation with rugged use and severe temperatures

Key Battery Characteristics

Production Ready

Hybrid Supercapacitor based High Power Density Battery Pack



- Peak C-rate: 10 C
- Max. Continuous C-rate: 5-6 C
- Operating temperature: -30 to 65 °C
- Cycle Life: >15000 cycles

Key Customers and Partners







Small World





















Offering Battery As A Service for Last Mile Delivery Vehicles



- Business Plan
 - Partnership with Auto OEM
 - Battery packs made available on a monthly/ Yearly lease for end customers
 - Joint Business development for sale of Vehicles

Log 9 Rapid Electric 3W

Parameter	Details
Top Speed	50 kmph
Charging Time	40 min
Range (Payload 500 Kg)	65 - 75 km
Range (w/o Payload)	85 - 95 km
Motor (Rated Power)	6 kW
Vehicle Category	L5N Cargo
Loading Dimensions (cubic mm)	1730*1475*260
Vehicle Dimensions	3200*1475*1710



Note:

Log9 Materials have deployed their battery solution on Rage + platform by Omega Seiki More Details available at - https://osmobility.in/vehicles/rage-plus/ Range Data as per internal testing / Vehicle is currently undergoing testing at ICAT (as of Aug 2021)





Akshay Singhal Founder & CEO

B.Tech. & Ph.D. IIT Roorkee 7+ yrs exp. In Nanotech R&D



Kartik Hajela Co-Founder & COO

B.Tech. IIT Roorkee, ex - ITC Previously co-founded 3 startups



Pankaj Sharma Co-Founder & CIO

Scientist IIT Delhi, Built Supercomputers 16+ yrs exp. in deep tech ventures

Prof. Ashok Misra
Technical Advisor

Distinguished Professor, IISc Ex – Director, IIT Bombay



Prof. VK Saraswat
Energy Systems Advisor

Member, Niti Aayog Ex. Director General, DRDO



Girish Paranjpe
Fuel Cell Advisor

Ex – Managing Director Bloom Energy





Graphene Nanotechnology Company

25
Patents Filed

10 PCT Applications

1 Granted

Existing Commercial Successes of the Company

5x more efficient oil and chemical spill absorbent materials made of Graphene





Pioneered UV Disinfection products in India for protection against COVID-19

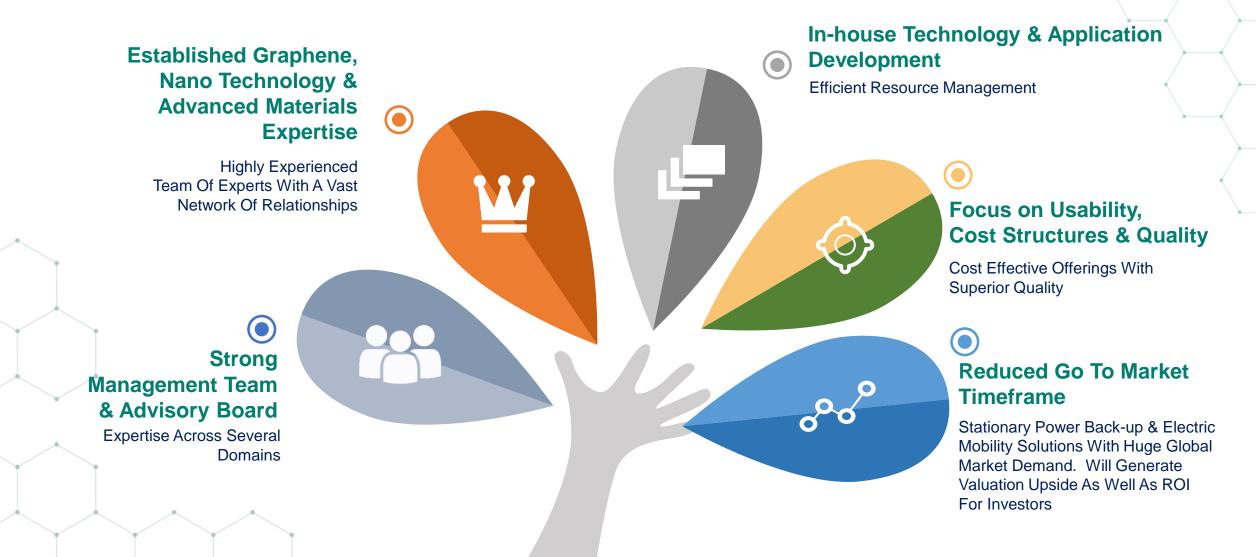


CoronaOven

Virus 0 | Humanity 1

 Proof of Log 9's quick innovation capabilities, Idea to Market in 15 days, helping fight COVID-19

A Cutting Edge Cleantech Startup



Thank You

