

A revolution in lithium-ion battery technology



battery industry

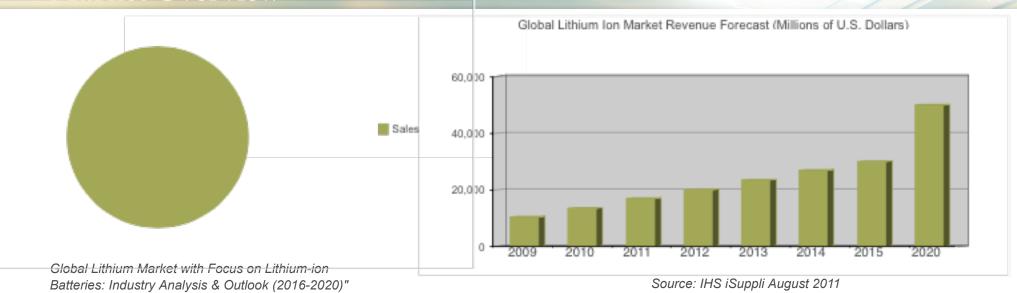






Market Overview





US\$31.55 billion (2016)

Growth rate 18.5%

The lithium-ion battery sector is set to dominate the battery market reaching around \$140 billion in 2026*

IDTechEx Research report, Lithium-ion Batteries 2016-2026

Market Growth Drivers For Lithium





Communication and Mobility

- · Miniaturization of electronic devices
- Extended range of electronic devices
- HEV, P-HEV, E-BUS
- · Exponential growth of transportation



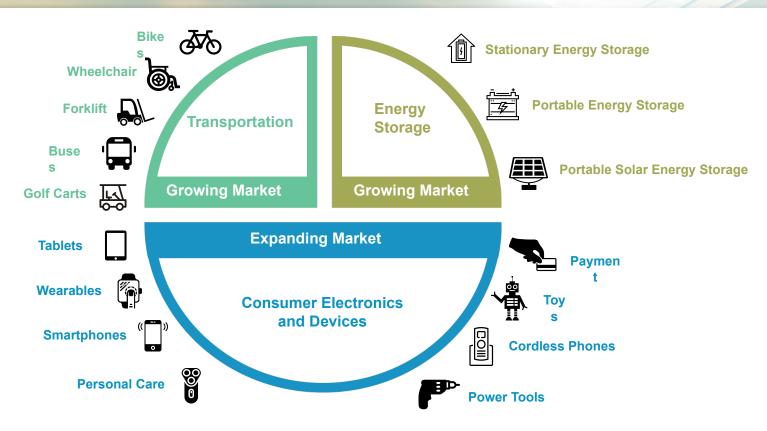
Safety and Energy Efficiency

- · Renewable energy concepts
- Smart grid & energy storage
- · Fewer chemicals & simpler processes
- · Reduction of carbon emissions

Global Lithium Market Outlook Goldman Sachs HCID Conference March 2016

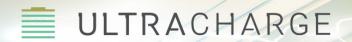
The Future of Lithium-ion batteries





[&]quot;...the substantial expansion of lithium demand is hindered by life span, charging time, specific energy and specific power and safety issues"*

Current LIB Barriers





Slow Charging

~two hours to fully charge a Smartphone



Limited Lifetime

~500 -1000 recharges cycles - two to three years of typical usage



Safety and Transportation Restrictions

Vulnerable to leakage, fire hazards and can create unsafe environments





A breakthrough in LIB Technology













Technological Innovation





with

a nanotube gel material made from TITANIUM DIOXIDE



Abundant



Cheap

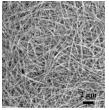




Patented Technology Low-cost raw material. Simple hydrothermal stirring.



TiO2 nanotube ge



Electron microscopy of titanium dioxide nanotubes.



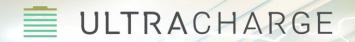
The graphite is replaced by titanate powder.

UltraCharge Titanate nanotubes vs. other anode materials



	Graphite	Silicon	LTO	Titanate Nanotubes
Capacity (mAh/g)	< 350	<u>400 - 2500</u>	<u>~170</u>	<u>300 -1000</u>
Typical Charge Time (hours)	>2	2-3	0.02	0.02
Cycle life	< 1,000	700 - 1,000	7,500	> 10,000
Safety	Low	n/a	Medium	High
Cost	Low	Low	Medium	Medium
Technology complexity	Market standard	High	Low	Low





Ultra Fast Charging



80% charged in under six minutes



Dramatic increase in capabilities with just 10-15 minutes of charging

CURRENT TECHNOLOGY
FULL CELLPONE CHARGE > 60 MINS

ULTRACHARGE FUTURE 80% CELLPONE CHARGED < 6 MINS



Ultra Safe

UltraCharge technology is entirely free of carbon for LIB Storage



No thermal runaway



No overheating



No Hazardous materials leakage



Eliminates fires



Eliminates explosions

"Another iPhone bursts into flames, sending the owner to the ER"

"Replacement Galaxy Note 7 starts smoking, leads to plane evacuation"



nd catches fire in a student's back pocket"

e the last to have exploding batteries"

ncy advises consumers to stop using fire-prone mobile devices"





Lifetime

10,000 -15,000 charging cycles

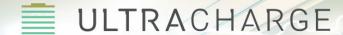
20x more than current batteries





Currently mobile devices batteries lifespan last 2-3 years

- Reducing environmental ramification
- More efficient global lithium utilization





Cost efficiency

Low-cost raw materials Uniquely affordable patented production method



Competitor Analysis



	Anode materials	Charging time	Lifetime	Energy density	Commercial status	Intended use
Tesla Supercharger	Graphite	80% - 40 min	8 years (Warranty)	~ 170 Wh/kg		EVs & power walls
Qualcomm QC 2.0	(advanced in charge system	100% - 96 min	2-3 years		Commercialized	Embedded into chips
OPPO VOOC	design)	75% - 30 min	2-3 years			Smartphones
Toshiba SCiB	Li ₄ Ti ₅ O ₁₂	80% - 6 min	> 20 years	65-90 Wh/kg	Prototype	Laptop
UltraCharge	TiO ₂	70% - 2 min	> 20 years	100-150 Wh/kg	Prototype	All markets



Commercialisation Models



License the IP

Material
Manufacturing
of TiO for Anode
Manufacturing

Anode
Manufacturing
and Sales

Cell
Manufacturing
and Sales

Battery
Manufacturing
and Sales





Ultracharge LIB Preproduction Demonstration
Of Ultracharge's LIB
Comparable To Current
Market Standards

Demonstration
Of Ultracharge's LIB
Manufacturing With
Industry Standards
Assembly Lines

Demonstration Of Coin Cell Energy With Ultrahigh Energy Density Demonstration Of Ultracharge LIB with Ultrahigh Energy Density

Today

2-5 Month

6-9 Month

12 month

18 Month

Fast Charging
Pouch Version
Prefabrication
Capacity: 70 mAh

Fast Charging LIB Battery
Capacity: >1000 mAh
Energy Density:
>100 Wh/kg
Potential Collaboration with
Major Energy Company and
Car Manufacture

Alliance with Energy
Storage Complimentary
Technology
Titanite Nanotube
Commercial
Manufacturing (kilogram
scale)

Fast Charging, Ultra high-density Coin Cell Energy density: 200 - 300 Wh/kg Initial Production Of LIB Non dilutive money Fast Charging Ultra high density, LIB Capacity: >1000mAh Energy Density: 300 wh /kg

Note: Milestone timeline commences from recompliance

Cap structure



		Minimum (AUD)		Maximu	ım (AUD)
Offer Statistics	Total Proceeds of The Offer	\$ 2,5	500,000.00	\$	3,500,000.00
	Total Shares of The Offer	50,000,000			70,000,000
	Price per share	\$ Min IPO	0.05 - \$2.5m	\$ Max IPO	0.05 O - \$3.5m
		(millions)			lions)
	LTX shares on issue		169.54		169.54
	Public Offer		50.00		70.00
	Vendor Offer		485.90		485.90
	CPS Offer		24.30		24.30
LTX Cap Structure	Total shares on issue (A\$0.05 IPO share price)		729.74		749.74
at IPO	Market Capitalisation	\$	36.49	\$	37.49
	Cash	\$	5.62	\$	6.62
	Enterprise Value	\$	30.87	\$	30.87
	Options already on issue*		22.00		22.00
*10m exercisable at \$0.16 by 31/12/16; 8m exercisable at \$0.05 by 5/4/18; 4m exercisable at \$0.59 by 4/4/19			70.00		70.00
**50m exercisable at \$0.0625 by 3 years from listing; 20m exercisable at \$0.05 by 3 years from listing			92.00		92.00
***Vest on a 6 monthly basis in 4 equal instalments in consideration for services			60.00		60.00



Application of Funds	Funds raised will be used for (incl. \$3.1m existing cash):	Min (\$m)	Min (%)	Max (\$m)	Max (%)
	Research	1.55	28%	1.71	26%
	Development & Manufacturing	1.22	22%	1.76	27%
	Sales and Marketing	0.27	5%	0.32	5%
	Business Development	0.65	12%	0.68	10%
	Working Capital	1.46	26%	1.62	25%
	Expenses of the Offer	0.48	8%	0.53	8%
	Total	5.62	100%	6.62	100%





Kobi Ben-Shabat Co- Founder and CEO

- Founder of OPS annual sales of \$14M, employs 30 people across Australia and NZ
- OPS was acquired in 2014 by Hills Pty Ltd (ASX listed).
- B.A and MBA in Marketing and Information Technology
- Vast experience and successful track record in funds raising, sales and senior management



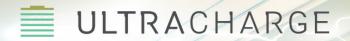
Prof Chen Xiaodong CSA

- Associate Professor at the School of Materials Science and Engineering, Nanyang Technological University (Singapore)
- Expert in integrated nano-bio interface and programmable materials for energy conversion.
- Over 40 papers published in prestigious refereed journals
- MS degree in Physical Chemistry (honors)
- Ph.D. degree (Summa Cum Laude) in Biochemistry



Dr. Linoam Eliad VP R&D

- 15 years of experience as a materials engineer and an expert in electrochemistry
- Expert in R&D projects of Nano materials for batteries and super capacitors for industrial companies and high-tech start-ups
- Collaborated on nano-material-related projects for the U.S. Air Force
- Ph.D. in Physical Chemistry and Electrochemistry from Bar Ilan University





Danny HacohenVP Business Development, Marketing & Sales

- Over 25 years in the hi-tech industry
- Various senior positions in the business and operation management of several technology companies:
 - EVP Business Development at Paradox Security Systems
 - VP Business Operation at DSP Group
 - COO at Emblaze group
 - VP Sales at TowerJazz
- BA degree in Social Science and Mathematics from Haifa University and MBA studies from the University of Bradford



Ultra-Charge advisory board:

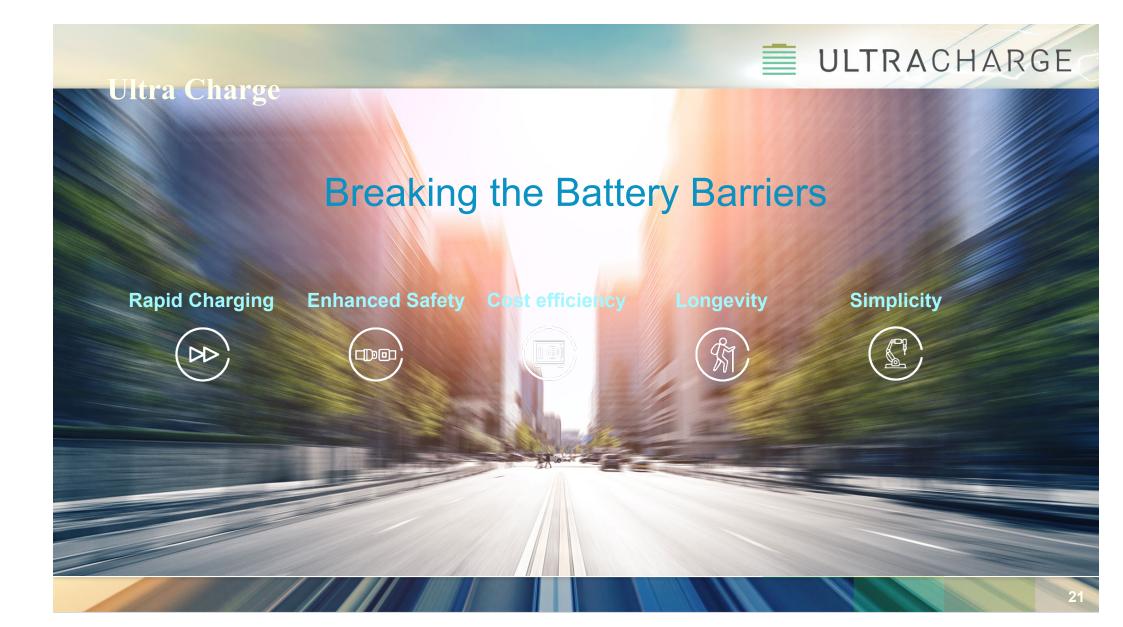
Prof. Gideon Grader

- BSc in Chemical Engineering degree FROM UC Berkeley
- · PhD in Chemical Engineering from Caltech
- · Over 30 years experience in the field of ceramics processing
- Founder of the Technion Energy Program (GTEP) and its director from 2007-2015
- Responsible for raising \$50m for a campus-wide interdisciplinary program
- Dean of the Chemical Engineering department

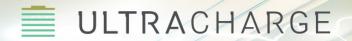


John Paitaridis Board of Directors

- · Managing director of Optus Business,
- Strong track record of driving growth in sales, revenue and profitability as well as building high performance teams.
- Extensive experience managing businesses in international markets
- A graduate member of the Australian Institute of Company Directors.
- Deputy chair of the Australian Information Industry Association's (AllA) board of directors



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In some cases, forward-looking statements can be identified by the use of terminology such as "may," "will," "expects," "plans," "anticipates," "estimates," "potential" or "continue" or the negative thereof or other comparable terminology These statements involve a number of risks and uncertainties that could cause actual results and the timing of events to differ materially from those anticipated by these forward-looking statements.

These risks and uncertainties include a variety of factors, some of which are beyond our control. All forward-looking statements and reasons why actual results may differ are based on information available to us when initially made, and we assume no obligation to update these forward-looking statements or reasons why actual results might differ.

