ULTRACHARGE

ASX Release

16 August 2017

ULTRACHARGE LIMITED
ACN 140 316 463

Level 6
105 St Georges Terrace,
Perth Western Australia 6000
Tel: +61 8 6558 0886
Fax: +61 8 6316 3337
Web: www.ultra-charge.net

Corporate and Investors
Armada Capital & Equities
Michael Shaw-Taylor
M: +61 477 383 390
D: +61 2 9276 1203
michael.shaw-taylor@armadacapital.com.au

Directors
Mr Kobi Ben-Shabat
Mr David Wheeler
Mr Doron Nevo
Mr Yuri Nehushtan
Mr John Paitaridis

ASX Code:
UTR

Shares:
451,407,126

Escrow Shares:
184,110,995

Options (various):
82,000,000

Performance Rights:
41,250,000

UltraCharge Reveals New Battery Storage Technology

- **Epsilor licence agreement leads to new flow battery intellectual property (IP)**
- **Demand for energy storage technologies increasing to compliment growth of the renewable energy sector, expected to reach US $777B by 2019.**
- **Opportunity for UltraCharge to position itself as a leader in lithium ion and flow battery technologies**
- **Projected low manufacturing and operating costs place the battery in the 1st quartile.**

UltraCharge Limited (**ASX: UTR, UltraCharge** or the **Company**) is pleased to announce that it has completed a review of the battery technology acquired through its exclusive license agreement with Epilsor (NASDAQ: ARTX), and has identified that the leading intellectual property (IP) is an iron based flow battery technology. This finding adds further value to UltraCharge's IP portfolio, positioning the Company as major player in the global battery technology market.

A flow battery is a type of rechargeable electrochemical cell. The technology is fast growing in the energy storage market, as the market recognises the value in flow battery technology to allow the widespread use of renewable energy such as solar and wind energy for utility-scale applications and grid integration. Flow battery technology provides energy reliability and availability when integrated with renewable energy sources, storing the intermittently produced solar and wind power and dispatching the stored energy into the grid when demand is there.

Renewable energy sources are set to be the single biggest source of electricity growth, and as demand grows the need for energy storage technology to balance supply and demand is expected to rise by 47% in 2017 (since the previous year) globally and to reach US$777B by 2019.[1,3]

Australia is predicted to be the largest market for battery storage due to its high cost of electricity, number of households with solar panels and extensive solar resources[2]. UltraCharge's iron flow battery IP has the potential to meet this market demand, ultimately reducing electricity costs for households, and communities in remote and rural locations.

The flow battery technology will allow efficient use of renewable energy production enabling load balancing during peak demand and off-peak power storage resulting in an uninterrupted power supply ('UPS').

Initial analysis indicates low installation cost, approximately US$250/kwh at a system cost of 1MW. Operating costs are estimated to be up to half the cost of diesel alternatives. Capex is predicted to be US$200/kw DC.

By 2020 Tesla estimate the PowerPack will run at 15 to 16c/kwh vs UltraCharge's Iron Flow storage solution at 13c/kwh.

There are currently no known commercially viable energy storage solutions with a cost point of US$200/kwh.

Kobi Ben-Shabat, CEO said *"I am very excited UltraCharge has the opportunity to expand its battery technology portfolio. The market growth of this energy storage technology is expected to be exponential, similar to the growth of solar energy, expanding UltraCharge's target market from electrical vehicles to include households, energy storage for remote communities, utility-scale and grid integration applications. The opportunities for flow batteries to compliment and encourage the wide spread use of renewable energy is huge and has significant economical and environmental impacts. I look forward to updating the market on our analysis of the flow battery technology and next steps forward".*

Kobi Ben-Shabat
Chief Executive Officer

About UltraCharge Limited (www.ultra-charge.net)

UltraCharge is a battery technology company based in Israel which has acquired exclusive rights to patented technology from the Nanyang Technology University in Singapore (NTU). The technology will replace graphite in anodes (negative pole) with a nanotube gel material made from titanium dioxide, in lithium batteries. This has the potential to revolutionise the market for lithium batteries by producing a battery that is safe, has a longer lifetime and is fast charging. UltraCharge has established a laboratory facility in Israel to conduct nanotube synthesis and fabrication of the nanotube anode, and is discussing supply options with end users in the global battery market

[1]International Energy Agency, 2015, Energy Storage Report – Market Analysis and Forecasts to 2020

[2]Climate Council, 2015, Powerful Potential: Battery Storage for Renewable Energy and Electric Cars

[3]Businesswire, 2016, Global Renewable Energy Market Worth USD 777.6 Billion by 2019 - Analysis, Technologies & Forecasts Report 2015-2019 - Research and Markets