

Atraverda Limited

Andrew Loyns

CEO

Energy Venture Fair 2006
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Zurich, Switzerland

Opportunity



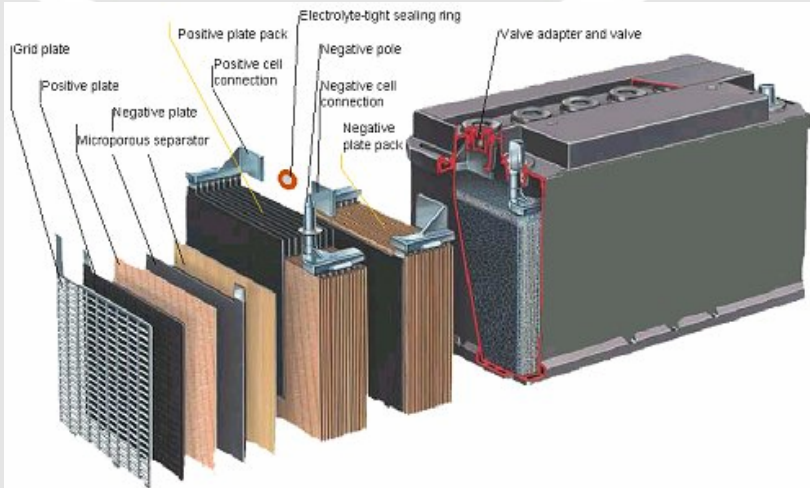
- Lead-acid battery market is huge – US\$18 billion
- Disadvantages are weight, size and performance limitations
- New chemistries have been developed offering higher performance
- Issues – cost, safety and recycling
- A bipolar lead-acid battery provides the solution



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Conventional vs. Bipolar

■ 12V Conventional Battery



■ 12V Bipolar Battery

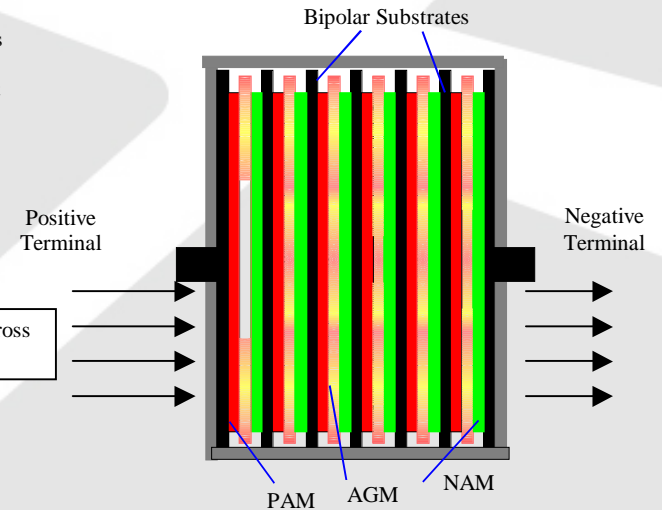
PAM = positive active mass

NAM = negative active mass

AGM = absorptive glass mat separator

→ current flow

Current flow is uniform across electrode surfaces



Technology and Product



- Bipolar concept has been known for over 100 years and extensive research has taken place in the last 30 years without success
- Atraverda has solved the problem with its patented Ebonex[®] ceramic
- Product performance of doubling specific energy and duty cycles has been proven
- Atraverda has a patented, proven bipolar lead acid battery solution with customer traction



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Markets



- Under NDA we are engaged with 3 lead-battery producers in development programmes addressing the following markets worth over US\$2 billion
 - ✓ Telecommunications \$1.2 billion
 - ✓ Uninterruptible Power Supplies \$0.6 billion
 - ✓ Renewable back-up power \$200 million
 - ✓ Military applications \$200 million
 - ✓ HEV \$300 million



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Commercial progress



- Commercial agreement with East Penn Manufacturing Inc. in USA for products in a variety of applications
- Program agreed to provide evaluation HEV batteries to ALABC

Feature	NiMH Battery	Ebonex [®] Bipolar
Capacity (Ah)	6.5	6.5
Size (cm)	54.9 x 10.6 x 27.5	51.8 x 10.6 x 27.5
Weight (kg)	29.1	37.5
Wh/kg	46.0	37.0
Wh/liter	80.8	91.8



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Business Model



- Component supplier business model to commercialize Ebonex[®] ceramic in lead batteries and grow the market by engaging all battery producers as customers and avoid direct competition with them.
- Company will engineer, produce and sell Ebonex[®] substrates to battery producers who will then design and build lead batteries for sale to both OEM's and the replacement market
- As a supplier of an unique, critical battery component, Atraverda plans to price substrates to maximise their value but at a level that will not inhibit adoption



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Future Plans



- Revolution not evolution of industry
- Exploit opportunities working with our partners
- Grow our manufacturing capability

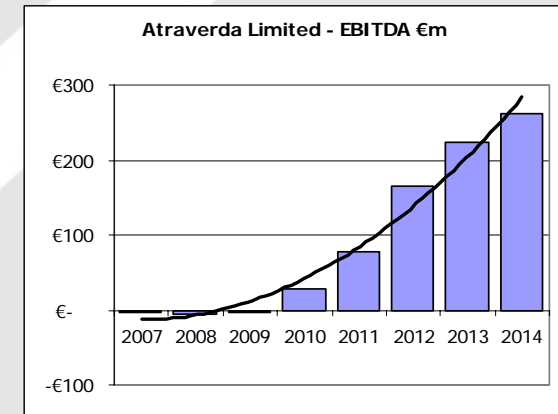
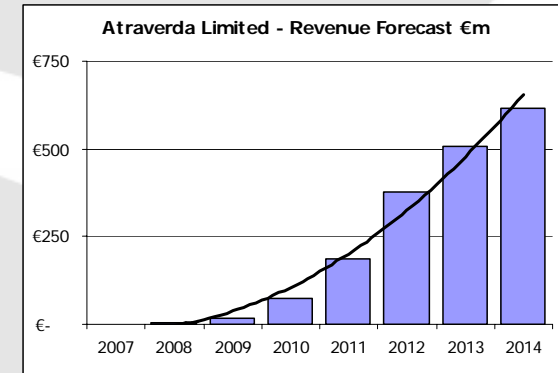


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Financial Projections



- Initial commercial sales in 2007
- Forecast break even H2 2008
- Forecast Sales Revenue of 185 million euros and net profits of 75 million euros in 2011



Summary of Fund Raising Offering



- Funding requirements - 10 million euros
- Expand in-house manufacture of substrates, expand battery and substrate test facilities and grow the Sales and Marketing team to pursue target opportunities



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