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Recovery Act Expanding the First Significant U.S. – Based Manufacturing

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Presenter: Hiroyuki Yumoto

EnerDel, Inc.

May 11th, 2011

Project ID # ARRAVT003



Timeline

- Jan - 2010
- Jan - 2013
- 40% complete

Budget

- Total project funding
 - 118 .5 million
 - 118.5 million

Barriers

- Additional Financing
- Customer Demand
- Operations

Partners for the Grant

- Inspec
- Itochu
- Purdue University
- Shiel Sexton
- State of Indiana



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Strategic alliances result in the most advanced solutions as technology and infrastructure evolve



KEY PARTNERSHIPS FOR COMMERCIAL SUCCESS

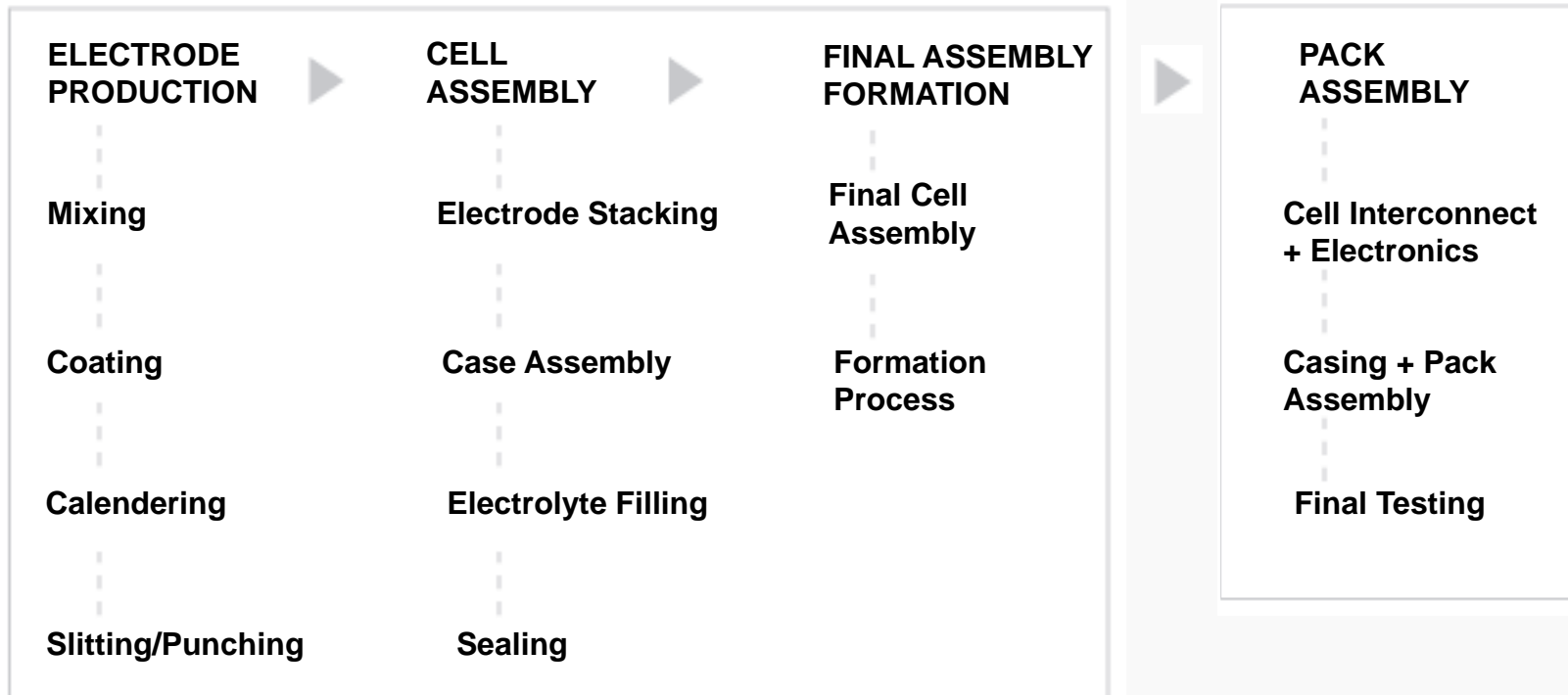


- Develop Competitive mass production and engineering capability of Lithium-ion batteries
- Enhance supply chain, competitiveness of base materials
- Position EnerDel as a Tier 1 auto parts supplier
- Create additional energy storage markets in military and stationary power



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EnerDel has developed the following vertically integrated manufacturing process helps ensure quality, contain cost and streamline production



CELL MANUFACTURING & SYSTEM INTEGRATION



Completed Manufacturing Processes

- All building modifications
- Dry room expansion
- Electrode manufacturing
- Electrode stacking
- Formation
- Module assembly



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Milestone	Milestone Title	Completed
1	Grant Documentation Signed	X
2	NEPA/FONSI Approved	X
3	Start of Production for Think Pack	X
4	Hired an additional 50 people from start date.	X
5	Purchase and Install Equipment for 20 EV cell coating capacity	X
6	Phase II Mt. Comfort Design Complete	X
7	Hired an additional 100 people from start date.	X
8	Phase III Mt. Comfort Design Complete	
9	Purchase and Install Equipment to 40 EV pack capacity	
10	Hired an additional 500 people from start date.	
11	Hired an additional 1000 people from start date.	
12	Purchase and Install Equipment to 60 EV pack capacity	
13	Project Completion	

MILESTONES MET AND FUTURE MILESTONES



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Vice President Biden visited EnerDel on January 26th, 2011

