WBS Element/Personnel	Work Package Type	Work Package	Project Manager	Hardware	Software	Testing	Sponsor	Other	Work Package Duration (Days)	Work Package Labor (Person Hours)
project	Project									
Market Analysis	Phase									
Materials Research	Activity									
Battery Research	Activity									
Battery Types	Activity									
Lithium Ion	Activity									
Cell Chemistry	Subtask	1.1.1.1.1.1.1								
Cathode Materials	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Anode Materials	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Electrolyte Composition	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Form Factor	Subtask	1.1.1.1.1.1.1								
Cylindrical	Subtask	1.1.1.1.1.1.1.1	R	L		P			2	16
Prismatic	Subtask	1.1.1.1.1.1.1.1	R	L		P			2	16
Pouch	Subtask	1.1.1.1.1.1.1.1	R	L		P			2	16
LiFePO4	Activity									
Safety Features	Subtask	1.1.1.1.1.1.1								
Thermal Management	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Overcharge Protection	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Short Circuit Prevention	Subtask	1.1.1.1.1.1.1.1	R	L		P	I		2	16
Battery Capacity	Subtask	1.1.1.1.1								
Power Requirements	Subtask	1.1.1.1.1.1	R	L	P	P	I		2	16
Usage Duration	Subtask	1.1.1.1.1.1	R	L	P	P	I		2	16
Size Constraints	Subtask	1.1.1.1.1.1	R	L		P	I		2	16
Battery Safety	Subtask	1.1.1.1.1								
Temperature Control	Subtask	1.1.1.1.1.1	R	L	P	P	I		2	16
Protection Circuits	Subtask	1.1.1.1.1.1	R	L	P	P	I		2	16
Certification Requirements	Subtask	1.1.1.1.1.1	L	P		P	I		2	16
Battery Suppliers	Subtask	1.1.1.1.1								
Vendor Selection	Subtask	1.1.1.1.1.1	L	P			I		2	16
User Needs Analysis	Phase									
Target Audience Research	Subtask	1.1.1								
Demographics	Subtask	1.1.1.1	L				I	P	2	16
Usage Patterns	Subtask	1.1.1.1	L				I	P	2	16
Purchase Behavior	Subtask	1.1.1.1	L				I	P	2	16
User Pain Points	Subtask	1.1.1								
Current Solutions	Subtask	1.1.1.1	L	P	P		I		2	16
Unmet Needs	Subtask	1.1.1.1	L	P	P		I		2	16
Feature Requests	Subtask	1.1.1.1	L	P	P		I		2	16
Build	Phase									
Component Sourcing	Activity									
Battery Procurement	Subtask	1.1.1.1								
Supplier Selection	Subtask	1.1.1.1.1	L	P			I		2	16

Project Totals	
Total WBS Boxes:	42
Total Phases:	3
Total Activities:	6
Total Work Packages:	32

Key							
L = Lead	P = Participant	R = Reviewer	I = Input	Project	Phase	Activity	Subtask*

* Subtask rows are colored to match their corresponding level in the WBS diagram