



### Concept of Operations





### System Decomposition and Requirements





### Requirements Validation and Verification Plan

Requirement	Requirement	Requirement Validation	Ve	Verification Plan		an	Verification Plan
ID	-	•	I	A	Т	D	
1.2.3	12000 solar panels shall be installed to generate 20,000 kWh per day.	The electrical engineer will analyze that the solar panels are producing the required amount of kWh per day to power the warehouse.		х			Each solar panel output will be calculated by the amount of hours of direct sunlight (6hrs) x 290 watts which is the average wattage of a solar panel. This would give us the required kWh to power the warehouse in a day.
1.2.7	The inverter shall convert DC electricity to AC electricity.	An inverter will be used to convert the DC electricity from the solar panels to AC electricity to power the warehouse and provide the electricity.	х				The assigned electrical engineer will make an inspection every week or when issues are seen to ensure the inverters are working properly they convert the DC electricity to AC electricity needed by the warehouse to operate correctly.
2.1.5	Supervisor shall keep employees on track by the amount of packages they have completed every hour.	Supervisor would track the operator's daily work by monitoring every workers' hourly performance.				х	The supervisor will have an estimated amount of completed packages done by each employee. The employees must demonstrate all completed packages, the amount should equal or surpass the estimated value from the supervisor.
2.2.2	Employee shall take the broken or scratched product to the waste container after manager approval.	Once broken product is detected, the employee notifies the manager to continue taking it to the waste container where it would be processed.				х	The employee takes the broken or scratched product to the designated waste container using safety equipment such as gloves to prevent injuries like cuts.
3.1.1	The waste facility shall pick up waste container.	On a scheduled trip the waste company will pick up the container filled with damaged material and take it back to its plant.	X				The waste company will pick up the container weekly and treat the material through the process of recycling in order for the material to be used again.
4.1.4	The employee shall choose the packaging according to the order size.	The package sizes will be determined by the size of the product and the amount of products that will be packaged. The employee will check the computer to see the package that has to be used for that order.		Х			The employee will check the Box on Demand system to use the correct size of packaging that will be used for the order.
5.1.2	Transporter shall scan package labels to confirm orders.	The employee will scan each product before loading it on to the van to update the system that it is being shipped. It will also send a notification to the customer that it is currently being shipped.				х	The transporter manually scans each package individually using the scanner.
5.1.4	Transporter shall set destinations to deliver products to customers.	The transporter will input the address of the closest customer and from there the next and so forth.				X	The transporter manually sets different destinations onto a GPS creating a route to follow for the delivery of the customer packages.



### Subsystem and Part Design

### 2.0 Manufacturing Warehouse 2.2 Rework 2.1 Warehouse Material 2.1.1 Facilitate 2.2.1 Error Detection 2.1.2 MAchine Training

<b>Employee Training Checklist</b>							
Date:	Time:						
Manager:							
Employee:							
Test	Passed	Failed					
Label Printer							
Tape Dispenser							
Choosing Package Size							
Cardboard Box Assembly							
Inventory System							
QR Code Scanner							
Forklift							
Overall Test Results:							
Employee Signature:							
Manager Signature:							
		Allena					

#### Package Completion Check **Damaged Product Approval** Employee Time **Packages** Completed Date: Employee Name: Product # Manager Signature:

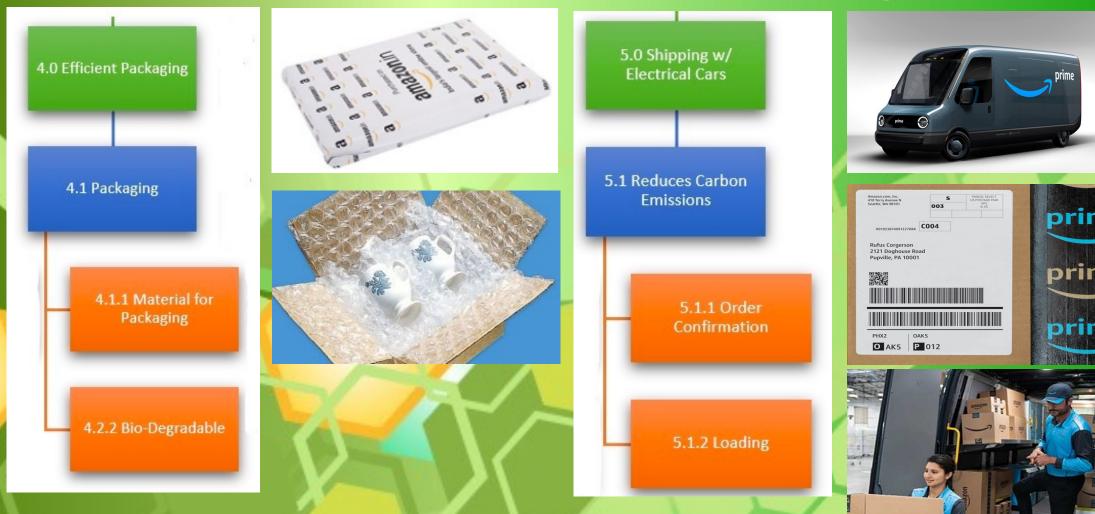


### Waste Container Pick-Up Log Date Time Picked up by Signature



Signature

# Subsystem and Part Design



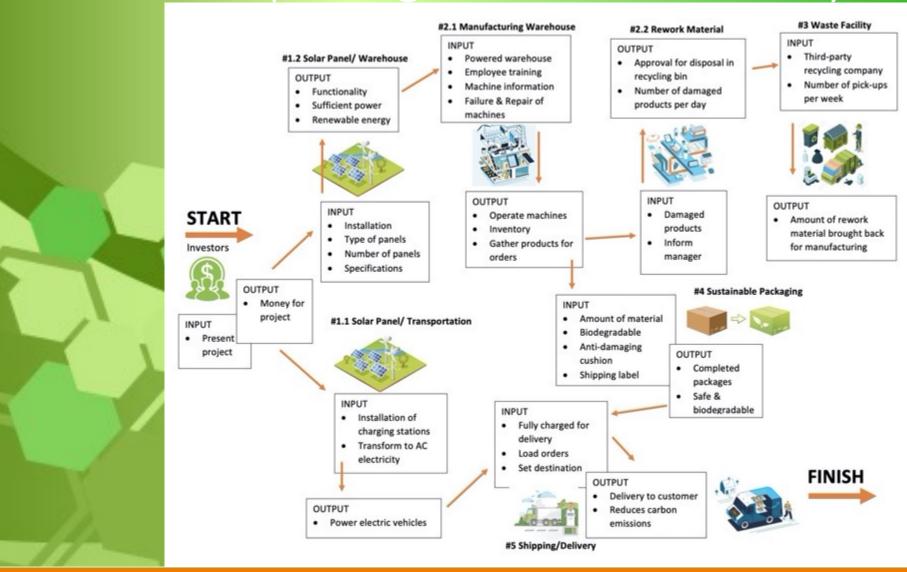






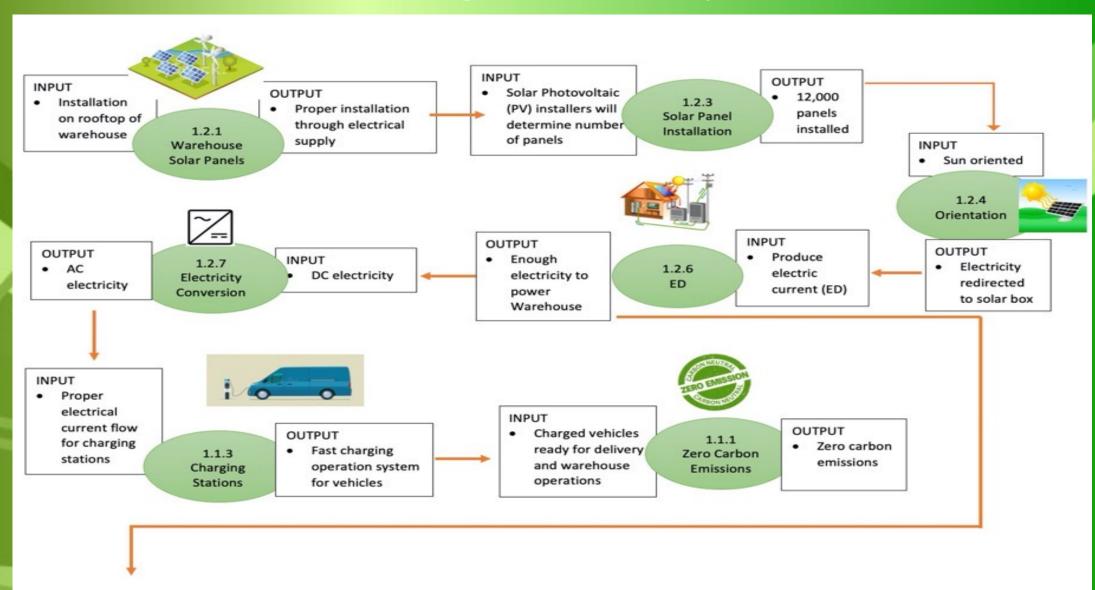


### Recomposing Parts into Final System



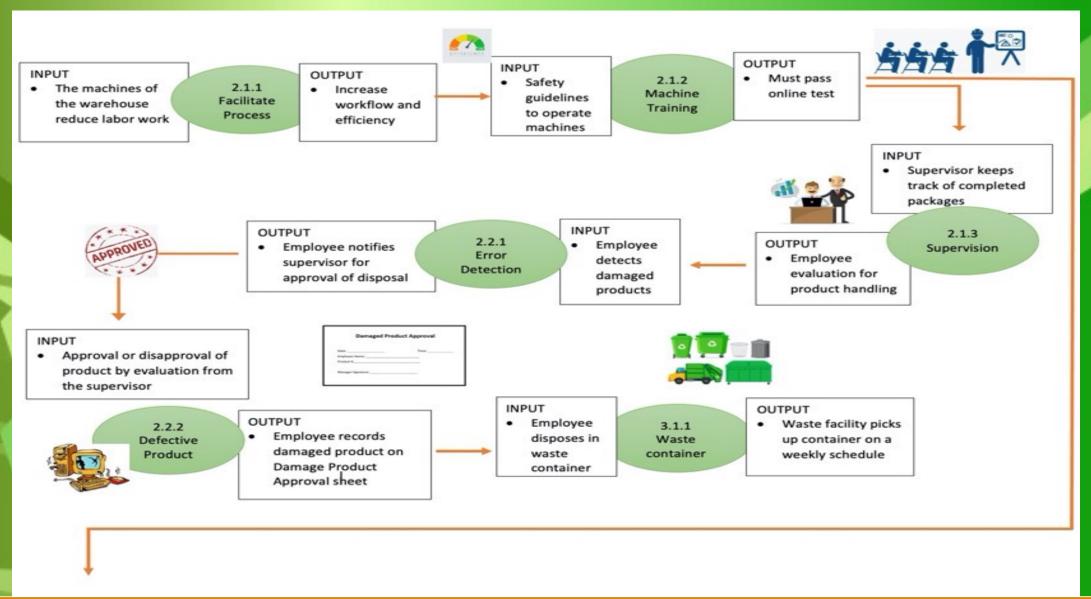


### Validating Overall System





# Validating Overall System





### Validating Overall System

