



Sustainability

Working Group

Focus Areas

- Lifespan
- Repair
- Recycling
- Regulation

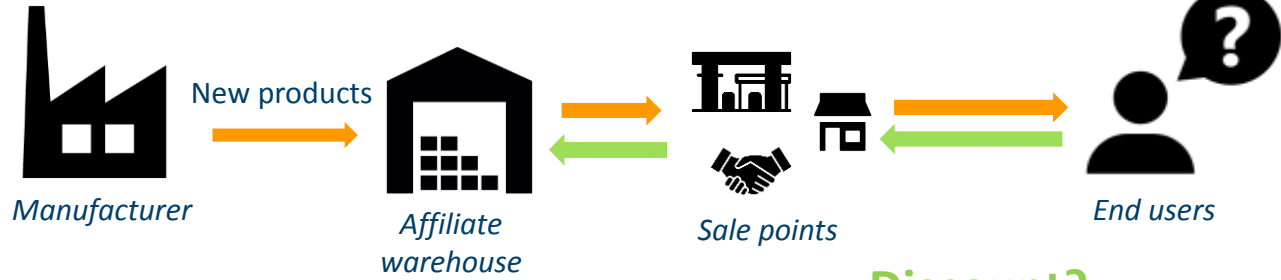
Lifespan

- Manufacturers must balance cost with customer satisfaction
- Maximizing lifespan means higher manufacture & after-sales costs, and may make it harder to sell next product
- BUT: Longer lifespan will enhance brand. The PAYG model incentivizes longevity

Repair

- What causes failure:
 - Maintenance - manufacturer assistance unavailable (spares, advice)
 - Compatibility - product rendered obsolete by upgrades
 - Reparability - hardware cannot be repaired locally at reasonable cost
- Barriers to Repair:
 - Manufacturing techniques e.g. anti-tampering screws
 - Lack of training, info on how to repair, spare parts, specialist tools
 - Establishment of repair businesses not viable => not enough repairable products and/or demand for repairs.
- Manufacturers looking at:
 - Designing for repair
 - Providing repair procedures and replacement components
 - Providing product documentation (schematics, repair manuals)

Recycling

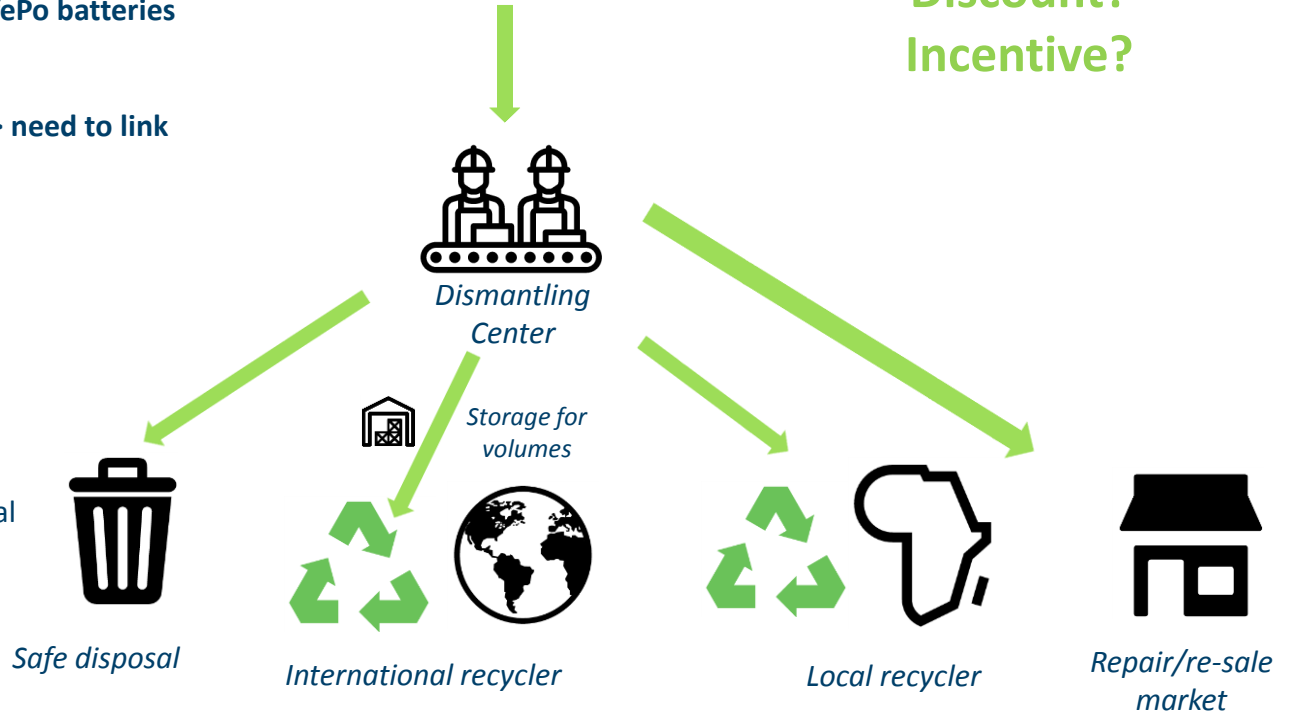


- Economics don't make sense yet - LifePo batteries not attractive for recycling
- Volume of waste not high enough => need to link in with e-waste value chains

Discount?
Incentive?

Also:

- Products need to be designed for re-use and repair
- New models needed for collection, dismantling & repair/re-sale/re-use
- Volumes needed for both international and local recycling models to become viable



Regulation

- E-waste markets growing – off-grid lighting just a small component of broader market
- ‘Extended Producer Responsibility’ (EPR), where governments hold importers responsible for recycling, becoming more common
- Need for industry to be ready to take responsibility:
 - Voluntary action from manufacturers & distributors
 - Recycling pilots to fully understand costs of EPR
 - Development of Recommendations around Recycling Policy/Regulation

Sustainability Working Group

- Social and Environmental Responsibility:
 - ‘Future Fit’ tools to help companies assess social and environmental performance.
 - “5 pillars” document looking at product, manufacturing, value chain, customers and end of life
 - Possible updated GOGLA Industry Position
- Customer Care and Protection:
 - Warranties, Consumer financing, Customer Privacy
- Lifespan, Repair & Recycling:
 - Guidance Note
 - Challenges and Opportunities
 - Role for Industry
 - [Off-Grid Scorecard](#)

THRIVE SOLAR ENERGY PVT. LTD.
Accendo Super LED Home Light

OVERALL GRADE **B**



BREAKDOWN

Repairability	A
Recyclability	B
Service & Spares	C
Lighting global accredited?	NO