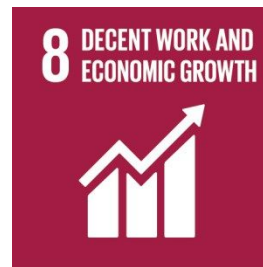


# STARDUST BUILDING SUPPLIES



## GREENLIGHT GREENPAPER

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Our team provided Stardust Building Supplies with a strategic decision making framework based on our cost benefit analysis of recycling appliances disassembled or whole.

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Challenges & Opportunities

Stardust came to GreenLight with the challenge of deciding whether recycling unsold appliances is more profitable disassembled or whole.

We were challenged by the COVID-19 pandemic crisis. This challenge required communication to be done virtually, encouraging the team to be more effective with communications. As a team, we learned how to remain engaged and cohesive throughout the transition. Moreover, initially determining our projects scope was difficult. We wanted to take on more than we should have. By listening to other Solutineers and our Project Partner, we found a way to create a manageable, valuable scope that would answer Stardust’s questions. We narrowed our scope to assessing the profitability of refrigerators, dishwashers, and ovens.

Recommended Solutions

Our process included researching the appliances’ materials and local resale options for valuable components, analyzing additional considerations, and utilizing our findings to create a cost benefit analysis, coupled with a decision making framework. We created the decision making framework in infographics to help Stardust decide what to do with its unsold appliances. It will allow the company to quickly analyze certain appliances and base decisions on a variety of critical factors.

Project Benefits

**BENEFITS TO PROJECT PARTNER**

Stardust now has the information they need to make an informed decision as to whether recycling refrigerators, dishwashers, and ovens is more profitable whole or disassembled. Stardust has a range of variables they can adjust to estimate revenue prior to making recycling decisions, which means their waste solutions for unsold appliances are both environmentally and economically sustainable.

**BENEFITS TO SOLUTIONEERS**

The team members now have a much better understanding of how to conduct a cost benefit analysis and how to create a decision making framework. They also have gained many lessons in communication, collaboration, and adaptability amidst the pandemic.

**BENEFITS TO THE COMMUNITY**

Overall, community waste diversion rates are positively impacted. Stardust customers can rest assured that if their donated appliances go unsold, they are being recycled properly. Local recycling companies gain the precious metals from the new partnerships with Stardust, boosting partners’ economic sustainability.