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Solar COFFEE



Substation33 is a social enterprise that processes & recycles e-waste while providing opportunities for marginalised & long-term unemployed people to build confidence, skills and training. Every year Substation33 diverts about 200 tonnes of e-waste from landfill. We are also devoted to repurposing e-waste into innovative products, so when a Boema coffee machine came in as e-waste we hatched a plan . . .

First, fix the coffee machine:

Our coffee enthusiasts at Substation33 worked together to repair the coffee machine. Boema kindly supplied a missing component & the process inspired our participants to learn more about servicing the machine & making coffee. They made extras for the set-up - a knock box & cup storage out of recycled components. Extraction Coffee donated a grinder, beans & cups & we were set to start caffeinating people.



Then, combine coffee and solar power:

We then installed the machine in our Solar Trailer so it could work totally off-grid. The Solar Trailer was designed & built as a training project. Energy is drawn from the 13 solar panels that create its roof & awnings that were otherwise destined for landfill. Energy is stored & distributed via the 1792 lithium-ion batteries which were recovered from old laptop computers. The 14Kwh system has the capacity to power an average 3 bedroom home so it has more than enough energy to power our Boema coffee machine. It also provides shade or mood lighting depending on the requirements.

Next, let us bring solar coffee to you:

If your event could use our solar coffee trailer then contact Tony Sharp:



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A YFS Social Enterprise Initiative

