



ECOCA Pilot in Bidi Bidi, Uganda

- WorkGrEEEn August 2019, Uganda



PESITHO: Simon la Cour

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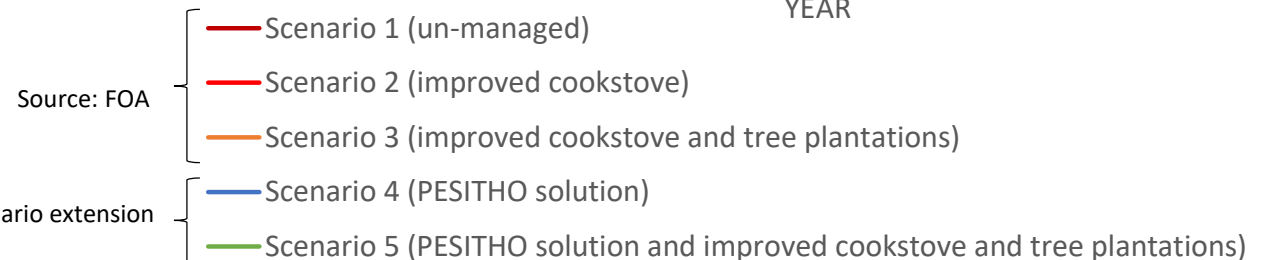
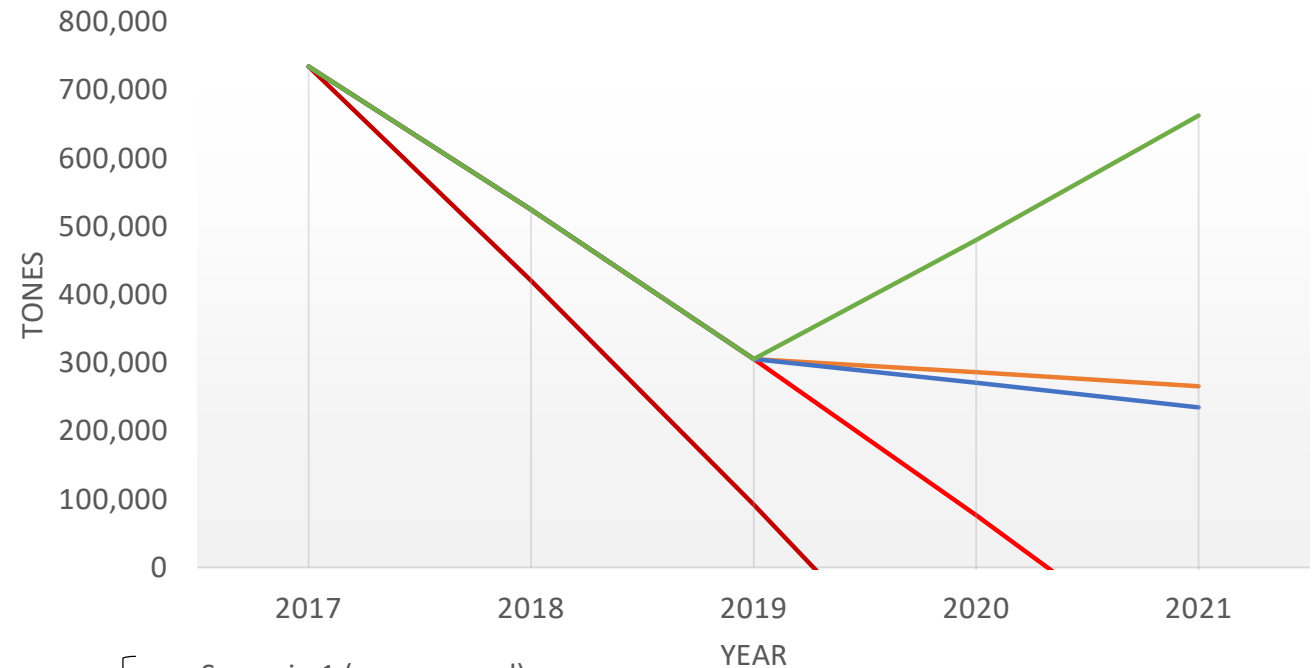
PESITHO ECOCA Solar Cooker



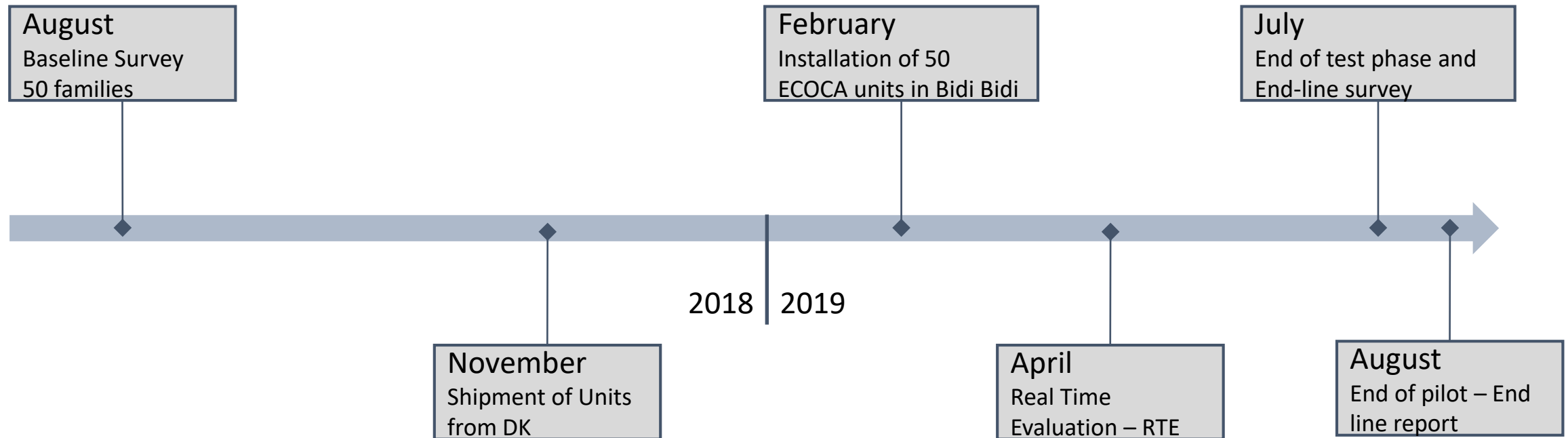
Off-grid solar cooker

- Climate friendly
- Battery backup
- Fossil- or wood-fuel independent
- Electric power bank

Bidibidi wood-fuel stock Scenario 1, 2, 3 + PESITHO 4 and 5 extensions (80% coverage)



The Bidibidi Pilot Project



Real Time Evaluation (RTE – April 2019)

Scope of the RTE:

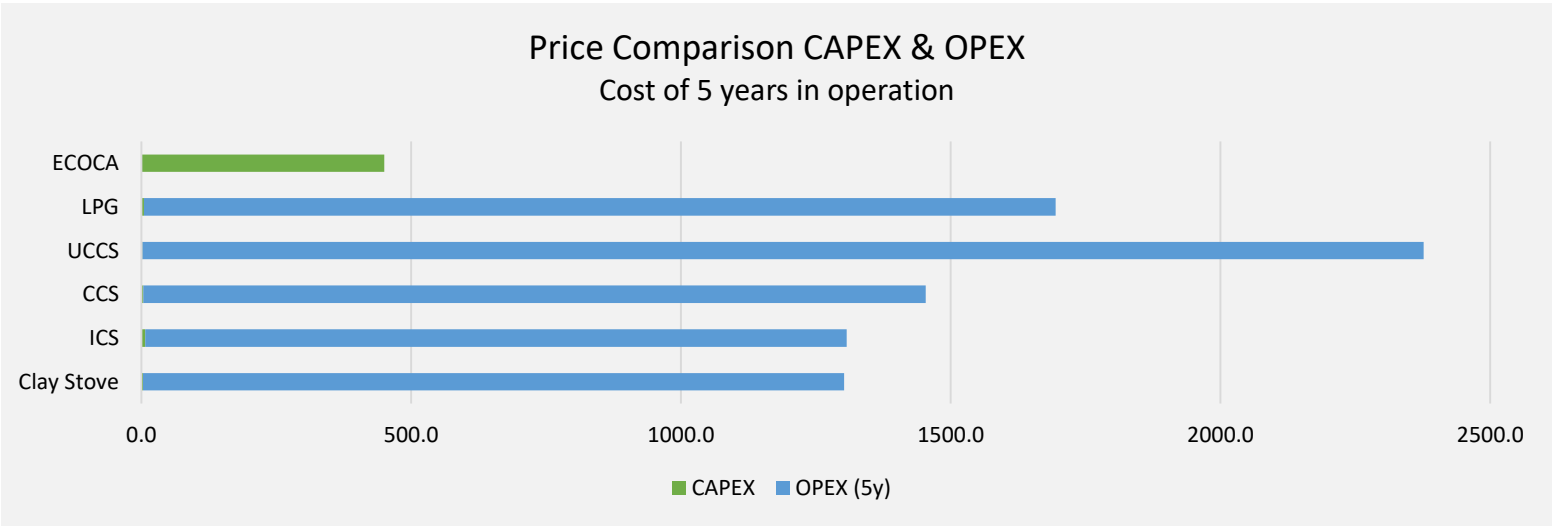
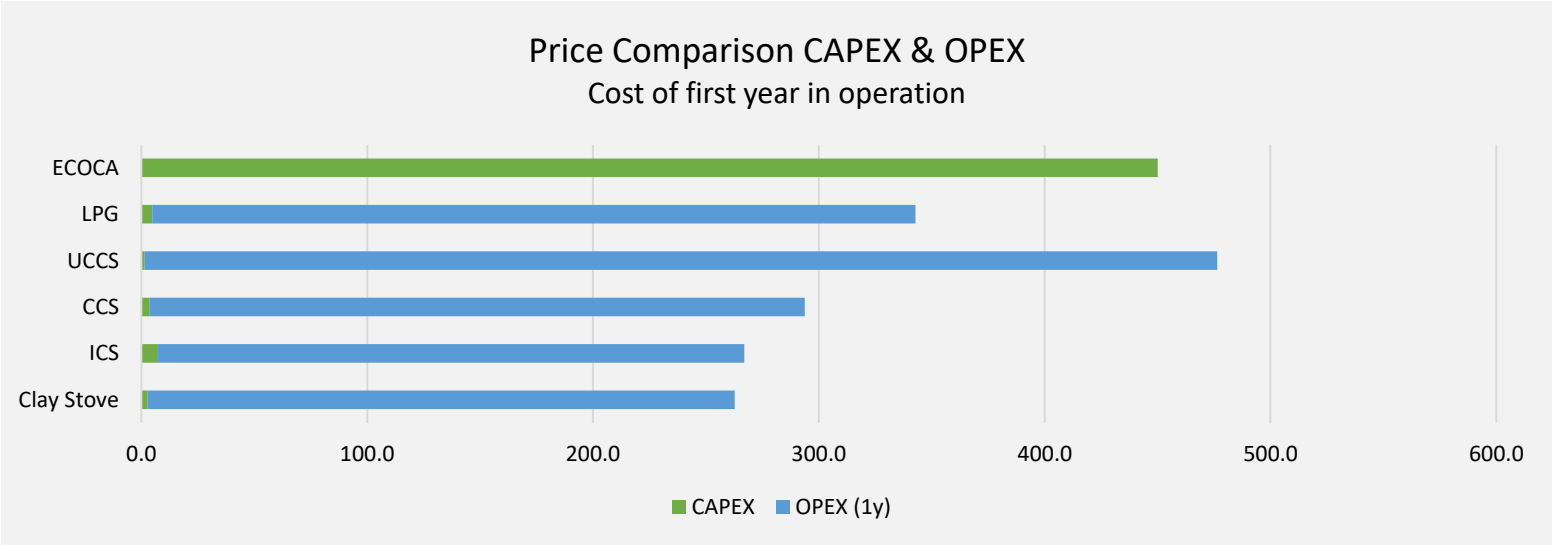
- Impact (cooking, phone charging, light, health, protection)
- Coverage & Connectedness (willingness to pay)
- Effectiveness & Coordination (training)
- Appropriateness & Efficiency (design)

First pilot results:

- 85% saves wood-fuel
- Average savings of UGX 7650 (with income generation)
- 30% lower selling of WFP rations + improved food variety
- 83% saving in time spent for collecting firewood
- 85% uses ECOCA for the only source of light



Price Comparison



Simon la Cour



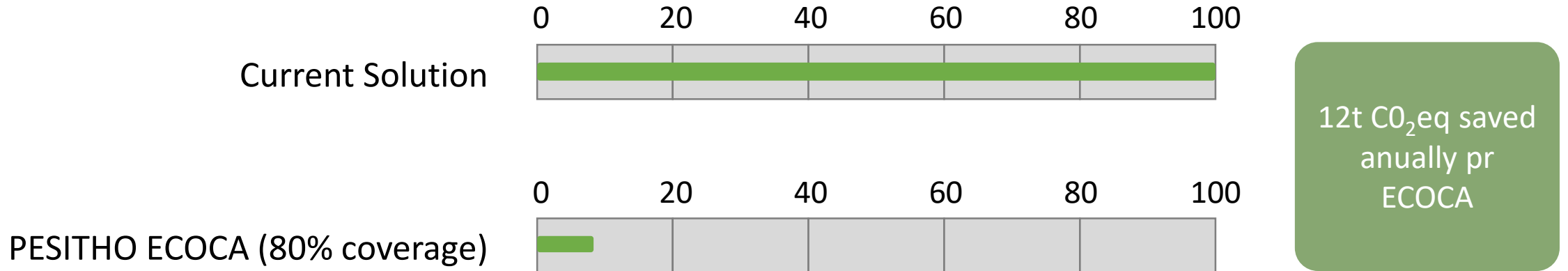
ICS: Improved Cook Stoves
CCS: Char Coal Stoves
UCCS: Unimproved Char Coal Stoves
LPG: Liquified Petroleum Gas

Firewood & briquettes: 260-290USD annually for a family



Sources:
https://assets.publishing.service.gov.uk/media/5bae05abe5274a3e019d86ae/191_Clean_cooking_energy_Uganda.pdf
<http://www.monitor.co.ug/Magazines/HomesandProperty/689858-926406-s8jhdsz/index.html>

Climate Impact



Total CO₂ saving:
470.000 t
With 100% coverage in Bidibidi

Sources:

GHG Emissions from the Production of Lithium-Ion Batteries for Electric Vehicles in China
<https://www.ivl.se>
<https://link.springer.com/article/10.1007/s10098-017-1456-4>
<https://www.ecta.com>



Thank you!

Simon Buss la Cour - Co-founder & COO

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