



Hivos
people unlimited

PEOPLE

Unlimited



Hivos Open & Green

Hivos works towards an **open society** with *freedom, diversity* and *equal opportunities* for all. We offer a platform for every person and every opinion, and ensure that power can be challenged and redefined.

Hivos works towards a **green society** that has no expiry date. A society powered by *renewable energy*, where everyone has sufficient, nutritious and affordable *food*.

Measuring beyond carbon impacts

Gold Standard
Conference
14 April 2016



Measuring beyond carbon impacts

Gold Standard
Conference
14 April 2016

W+ Standard



Six domains:

- ✓ Income & Assets
- ✓ Time
- ✓ Education & knowledge
- ✓ Leadership
- ✓ Food security
- ✓ Health

Indonesia Domestic Biogas Project

Hivos
people unlimited

Measuring beyond carbon impacts

Gold Standard
Conference
14 April 2016

W+ Standard



1) PIN -> Time Savings (start)



2) PDD 2 provinces of 9

3) Monitoring Report

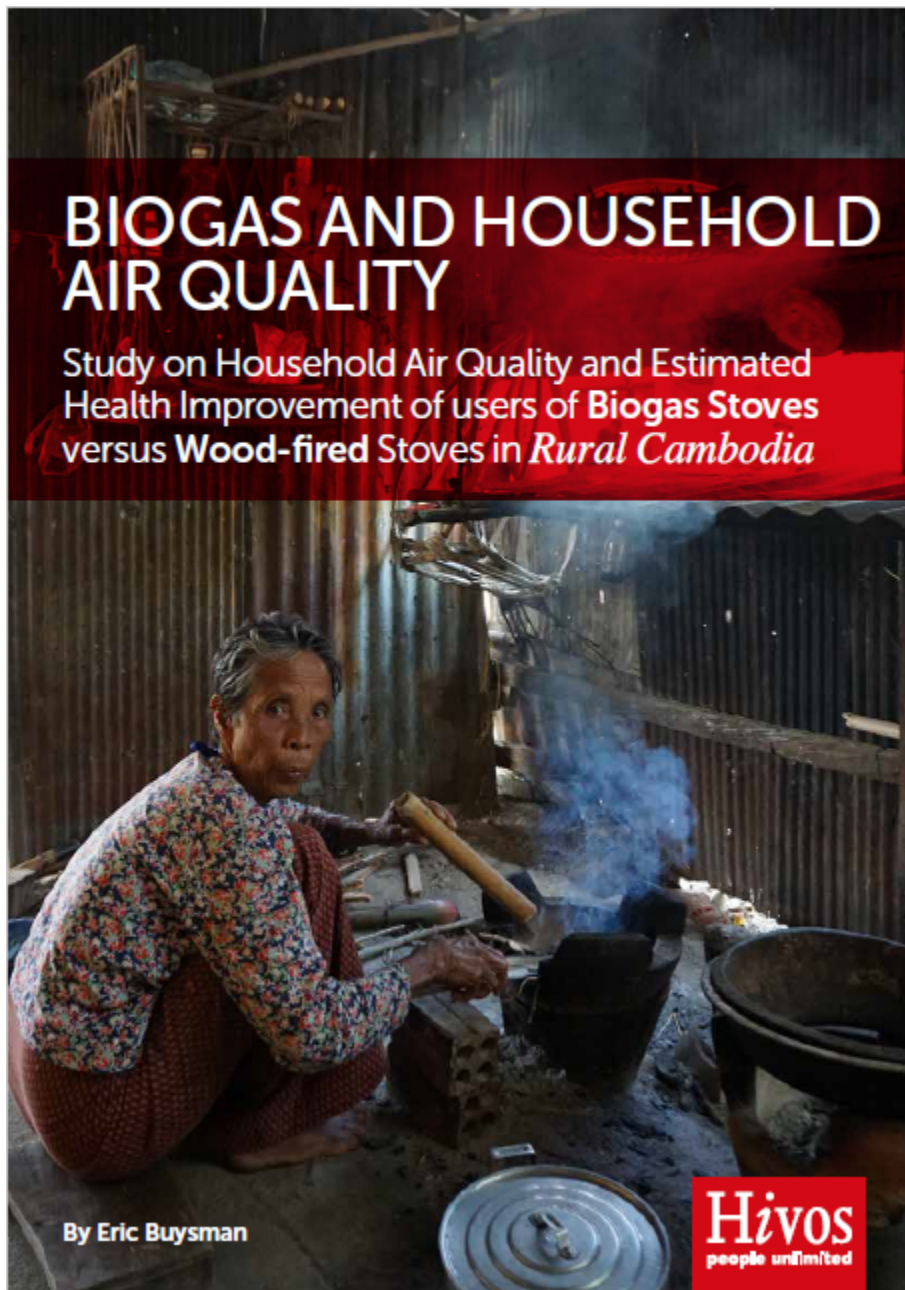
4,452 women
(households)

- 2,005,245 units

4) Social Audit Report

**Recommendations for empowerment actions
(income & assets, leadership)**

Hivos
people unlimited



Biogas and Clean Cooking Conference

Session: Biodigesters
and Clean cooking

5-7 April
Addis Ababa

By Eric Buysman

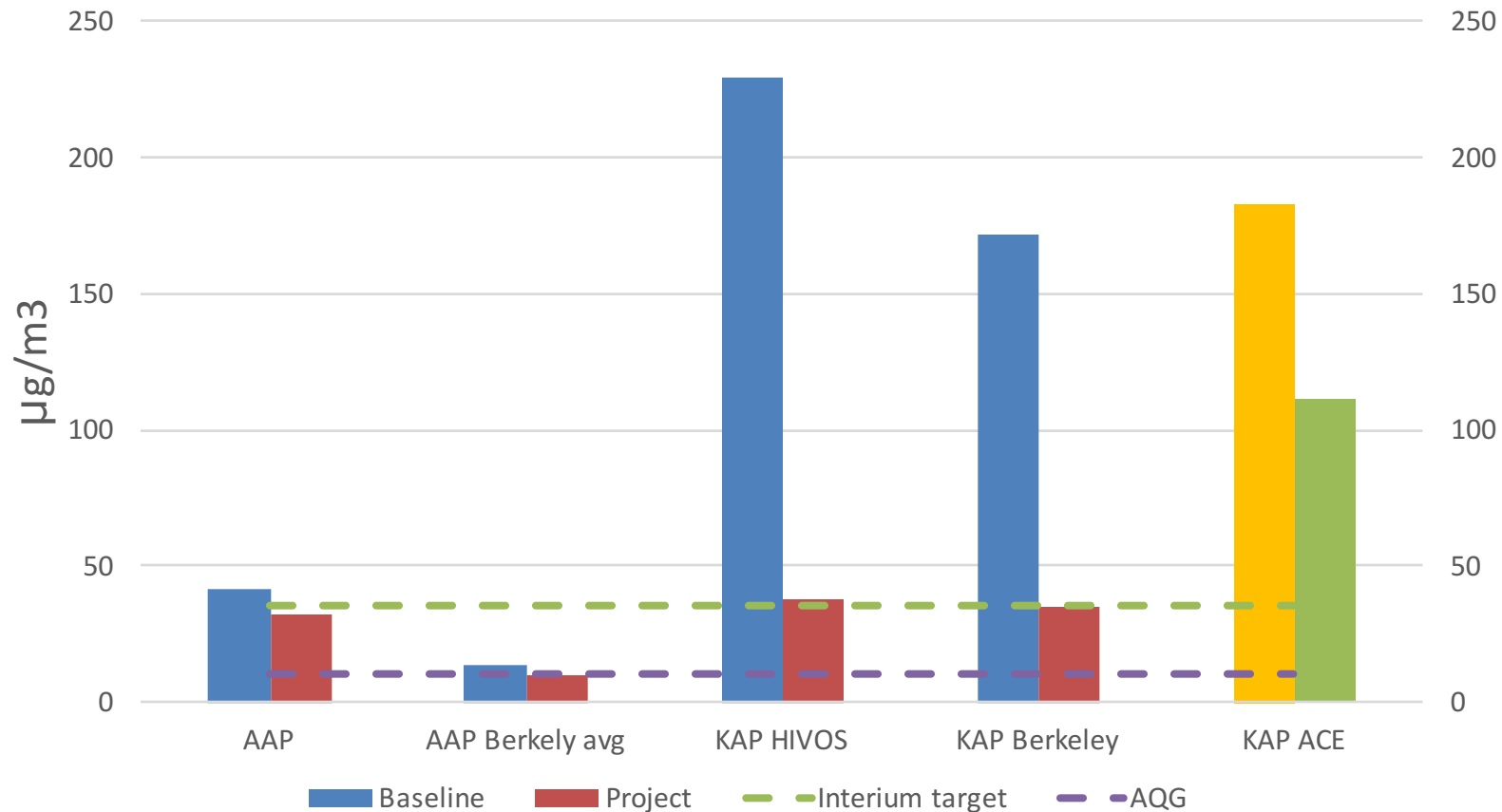
Tools and pollutants

				
<i>EL-CO</i>	<i>UCB-PATS</i>	<i>Exposure measurement</i>	<i>Kitchen measurement</i>	<i>Ambient air measurement</i>

CO and PM2.5 48 hour measurement for PE, KAP and Ambient air

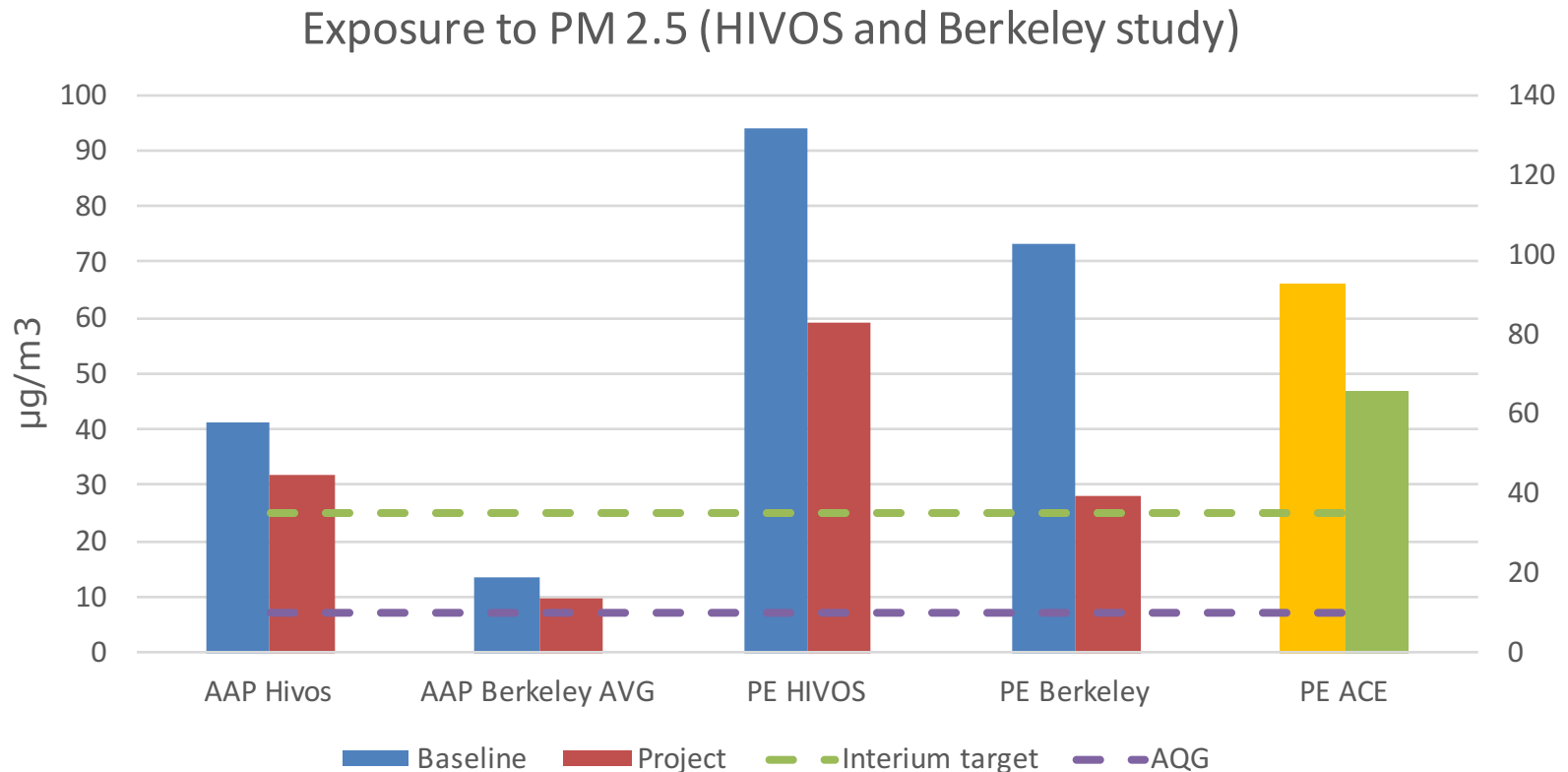
Kitchen Air Pollution (KAP)

KAP PM 2.5 (HIVOS and Berkeley study)



Berkeley AAP is the average of an urban and isolated rural value. No AAP value of the biogas village was recorded

Personal Exposure (PE) to PM_{2.5}



Berkeley AAP is the average of an urban and isolated rural value. No AAP value of the biogas village was recorded

Health benefits

- Household Air Pollution Intervention Tool

HAPIT 2.0, based on GBD 2010 data (but with calculations with 10 years time span, method approved by HAPIT staff)

Usage data from VGS project (n=315 hh)

Scenario	Digesters	Usage rate	Averted deaths	aDALY
Realized 2006-2014	22,117	88%	29.5	1,442
Projection 2014-2020	37,117	82%	21	1,077
sum			52	2,519

A woman with dark hair, wearing a patterned shirt, is smiling and looking towards the camera. She is holding the lid of a metal pot that is sitting on a small, portable stove. Steam is rising from the pot. The background is dark and textured.

Thank you!

Harry Clemens

hclemens@hivos.org

Improve lives with healthy kitchens and green fields!

www.hivoscarboncredits.org

Hivos
people unlimited