

Sensor Data Collection Points		David Warner/John Gage	updated 8/9/2013		
PHYSICAL SYSTEMS					
Water	Waste Water	Energy	Building Performance	Physical Transport	
Total water removed from bore hole	Flow rate into first equalization tank	kW production: Solar	Indoor air temp	Jerrycans in/day	
Borehole water temperature	Flow rate out of UV filter	kW production: pyrolysis	Outdoor air temp	Jerrycans out/day	
Borehole water pH	Other flow rates?	kW production: generator	Generator output	Staff stock and flow	
Borehole specific electrical conductance/conductivity	Amount of recycled water storage	kW use: building	Generator fuel use	Customer stock and flow	
Borehole redox potential (Eh)	Waste water quality tests (?turbidity? TOC? DOC?)	kW use: motors	Battery storage capacity; condition	Jerrycan transport to homes: distance; kg-meter	
Borehole dissolved Oxygen	Recycled water temperature	kW use: lighting	Hours operating, by element	Clothes volume: dry	
Borehole alkalinity	Cryptosporidium counts	kW use: waste water system		Clothes volume; wet	
Borehole TDS (derived from conductivity)	Other human waste tests	kW use: borehole		Fuel transport	
Shower volume					
Toilet volume					
Laundry volume					
Lavatory volume		kW use: plug load		Slurry transport	
House Cleaning volume					
Storage tank temperature		kW use: laundry		Jerrycans washed/hour	
Dynamic water level in well borehole				Jerrycan inventory	
		kW use: cafe			
		kW use: office			

SOCIAL SYSTEMS					
Commerce	Finance	Health	Information	Governance	
Total water sold	Loans/ day	Health questionnaire	Page views	Subscribers/day	
Products sold: retail	Payments/day	Visits/consultations/day	Network volume: MB/day	Staff/day	
Products sold: wholesale	Financial questionnaire flow	Staffing: health	Users/day	Security staff/day	
Glasses	Co-op aggregate loans	Disease characterization	Equipment status	Walk-ons/day	
Stoves	Co-op aggregate savings	Impact evaluation surveys – UC Berkeley, CEQA, James Tinker (UC Berkeley) Cal model	Class enrollment/attendance	Security incidents	
Jerry cans				Health incidents	
Solar PV				Employee work hours	
Corporate collaborator surveys					