

JOHN DAU FOUNDATION
Duk Lost Boys Clinic
Energy Needs Audit - April 2010

Highest Priority - Cold-chain for Vaccine

Item	Watts
DC fridge (cold chain)	720

High Priority - Routine Supply

Item	Constant	Daily, not	Short-term
		constant	Use
		Watts	
Well water pump		5000	
Internet/computers	800		
Laboratory DC fridge (non cold chain)	240		
AC fridge/freezer			1500
Backup freezer (kerosene fridge)			300
Lights		600	
TV/DVD			500
Fans		700	
Air Conditioners x 2	3000		
Extra AC x 2*		1500	1500
Microscope	60		
Blood centrifuge	440		
Water bath			1200
Urine analysis centrifuge	1386		
Autoclave sterilizer		1,380	
BP monitor	12		
Ultrasound		23	
Oxygen concentrator		200	
Totals	5938	9403	5000
Minimum Needed	<i>6kw</i>	<i>6kw</i>	

High priority for No-Sun Times

Item	Watts	
Water pump or autoclave and lab equipment or autoclave and oxygen	5000	
Internet/Charging ultrasound, etc	800	
DC fridge (lab, non cold chain)	240	
Lights	400	
Air Conditioners (pharm storage)	1500	
	7940	0
Minimum Needed	<i>6kw</i>	

**Planned*