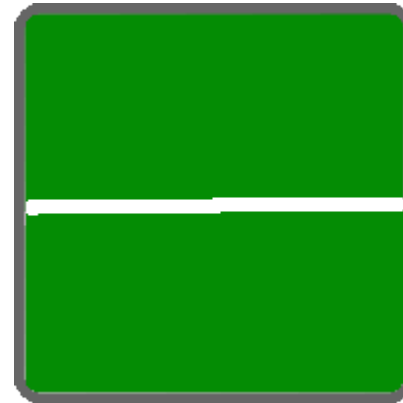
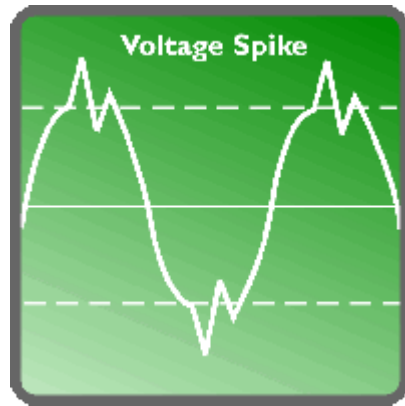




















NRENs, Connectivity & Power



Grid power reality

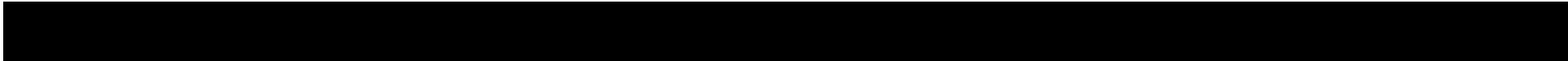


Power is frequently named as
biggest obstacle in building networks -
before skills/capacity and budget.

c2851_dailin		UP	36d 7h 6m 15s
c2950-gradstud-vc		UNREACHABLE	0d 6h 16m 44s
c2950-gradstududies-univ-press		UNREACHABLE	0d 6h 16m 44s
c2950-ictd-second-4		DOWN	0d 6h 16m 44s
c2950-ictd-second-5	 	UP	0d 8h 24m 34s
c2950-ictd-second-6		DOWN	0d 8h 24m 34s
c2950-ictd-third-1	 	DOWN	61d 16h 16m 44s
c2950-ictd-third-2	 	UP	0d 8h 24m 34s
c2950-sph-sw-1		UNREACHABLE	0d 5h 16m 44s
c2960-agri-animalscience		UNREACHABLE	0d 6h 16m 44s
c2960-agri-cropscience		UNREACHABLE	0d 6h 16m 44s
c2960-agri-engineering		UNREACHABLE	0d 6h 16m 44s
c2960-agri-extension		UNREACHABLE	0d 6h 16m 44s
c2960-agri-leventislab	 	UNREACHABLE	0d 6h 16m 44s

UNREACHABLE





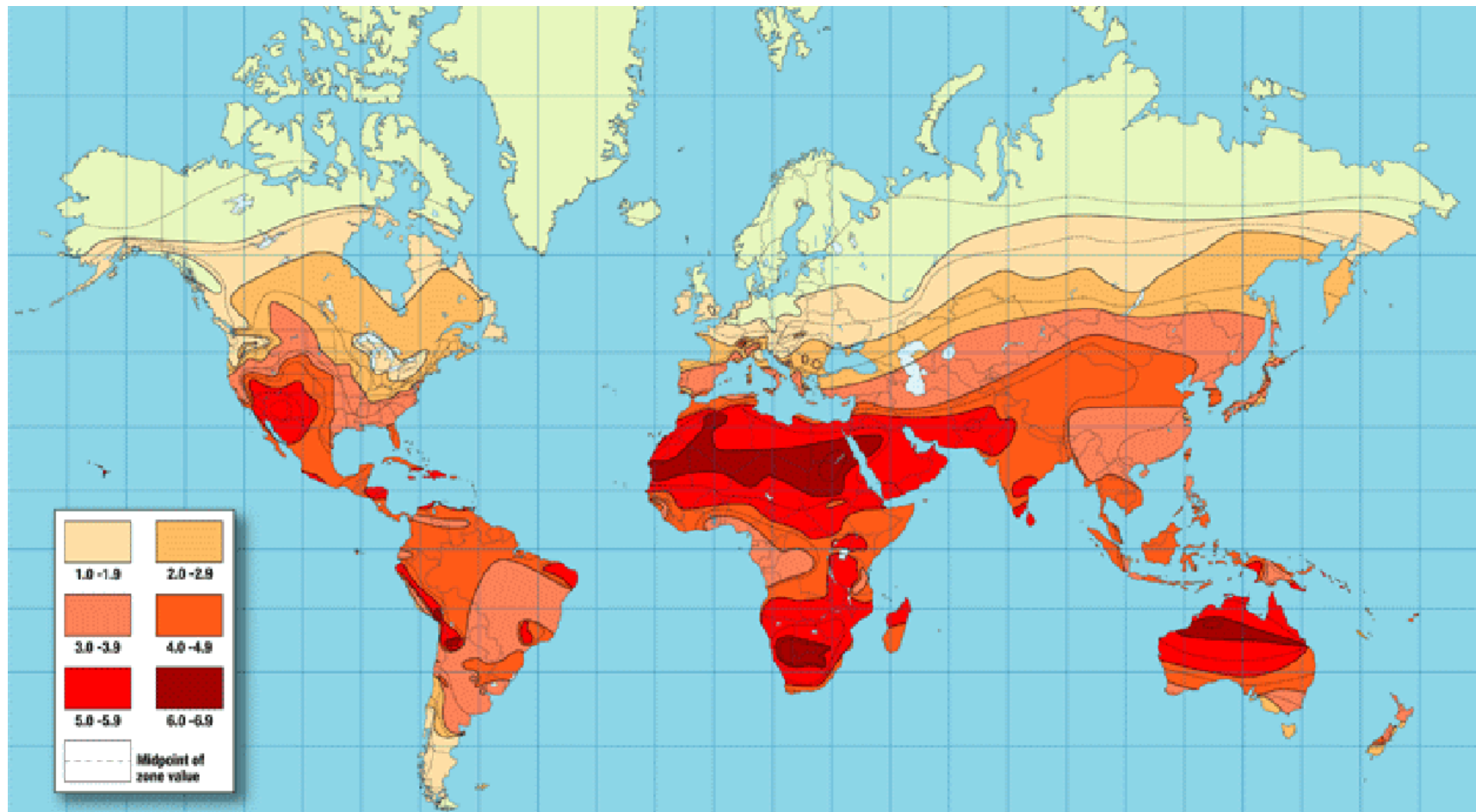
Unstable power not only leads to
service disruptions,
it also
kills hardware,
leading to
massive losses of investments.

Building networks without solving the power issue
is like
trying to fill a bottomless bucket.

Networkers and Funders alike
have all pragmatic
reasons to act.

Luckily, we know **how to**
and we often work in ...

Truly rich countries

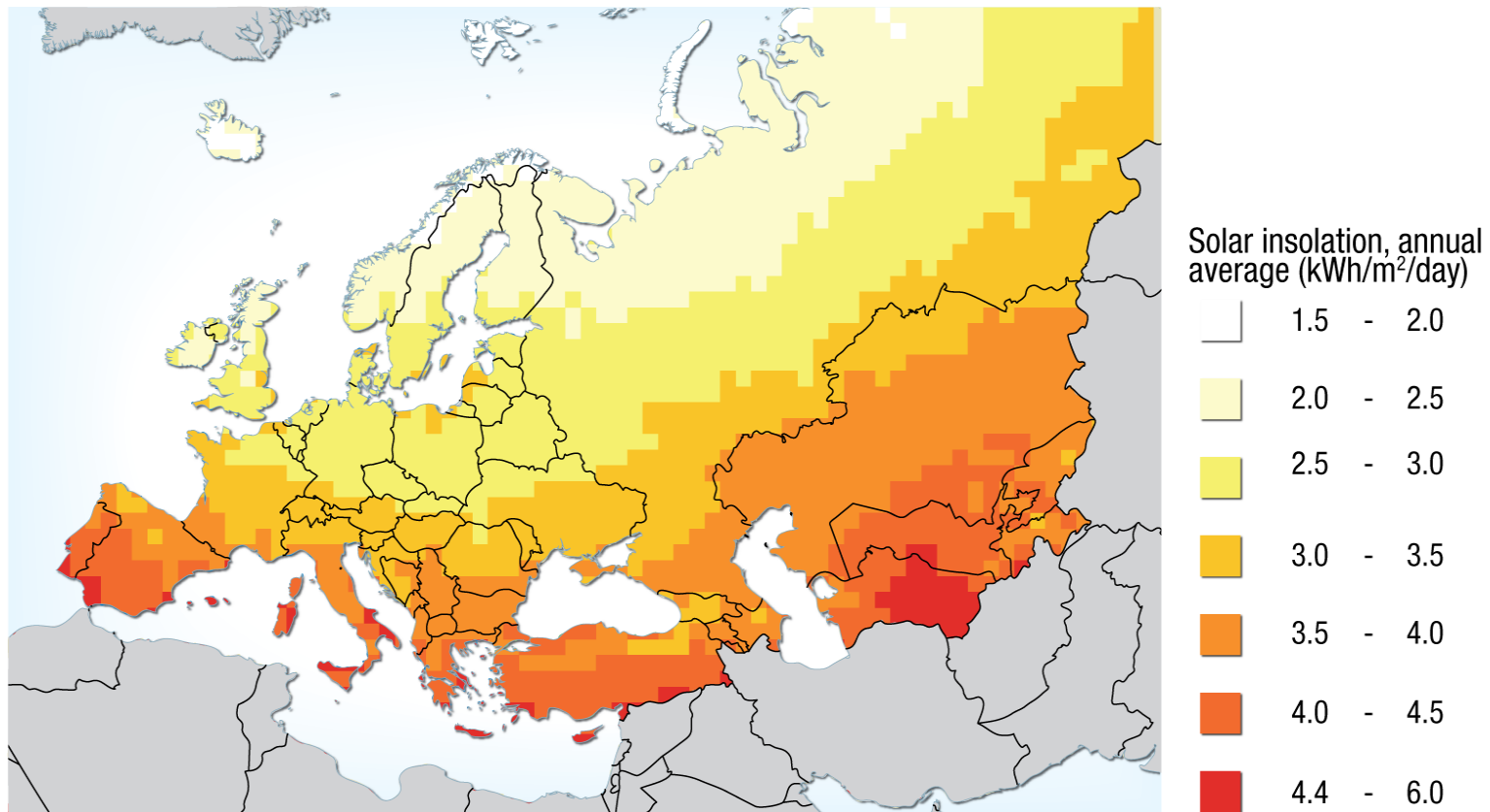


The roof of a
University IT building in Nairobi, Kenya
receives about
2200 kWh/sqm/year
or an average
250 W/sqm.

It gets an average
6 peak sun hours every day.



Dark Germany gets about **2 peak hours per day, yet ...**



Germany sets world record for solar power generation

By Madonna Gauding Published: June 15, 2012

Posted in: Energy, Environment, Technology

Tags: Fossil fuel subsidies , Germany , Solar energy

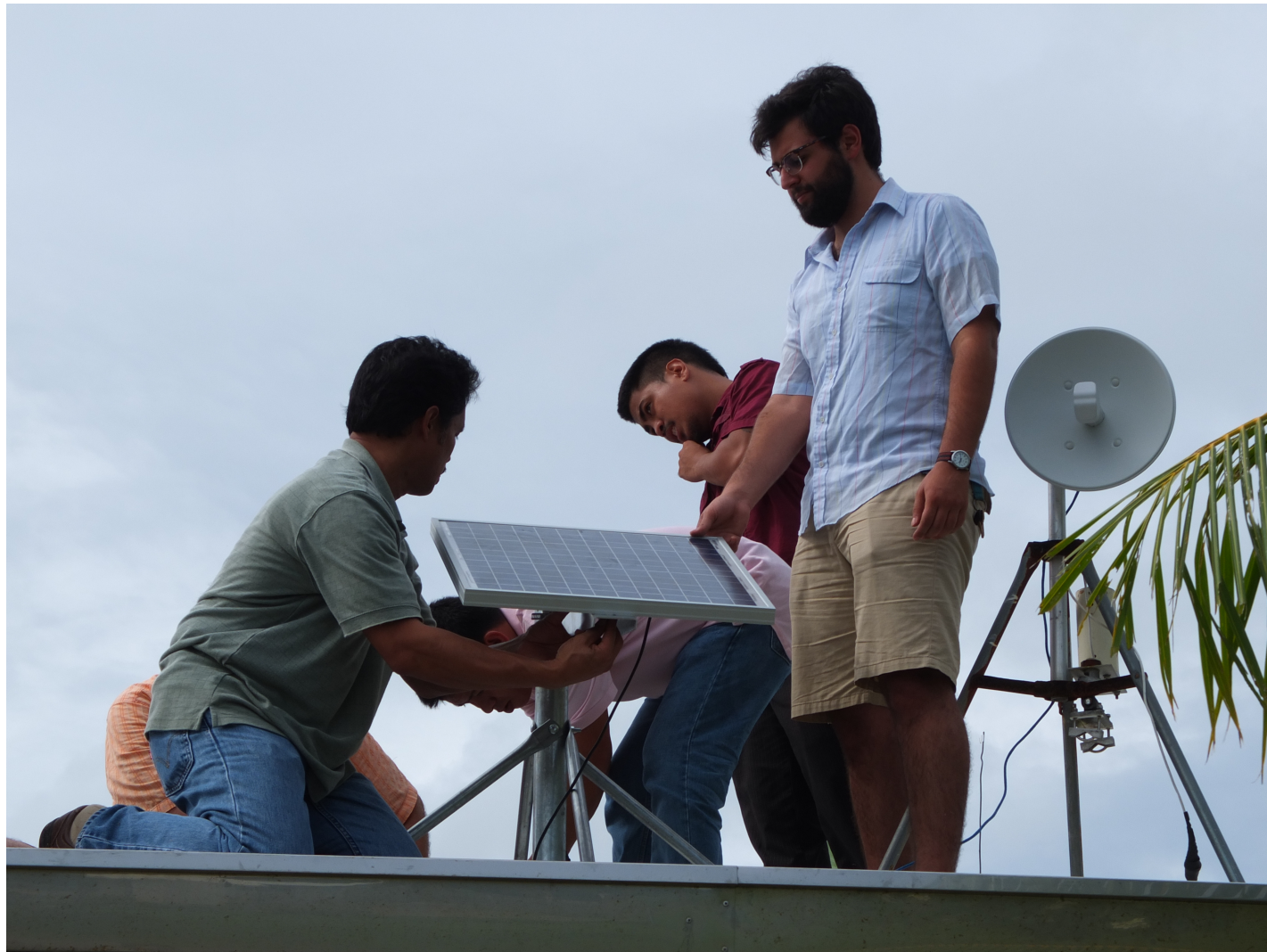


50% of its total electricity from solar sources (on a very good summer day :)

Anywhere, it is enough to power network components, computer labs and even server rooms ...

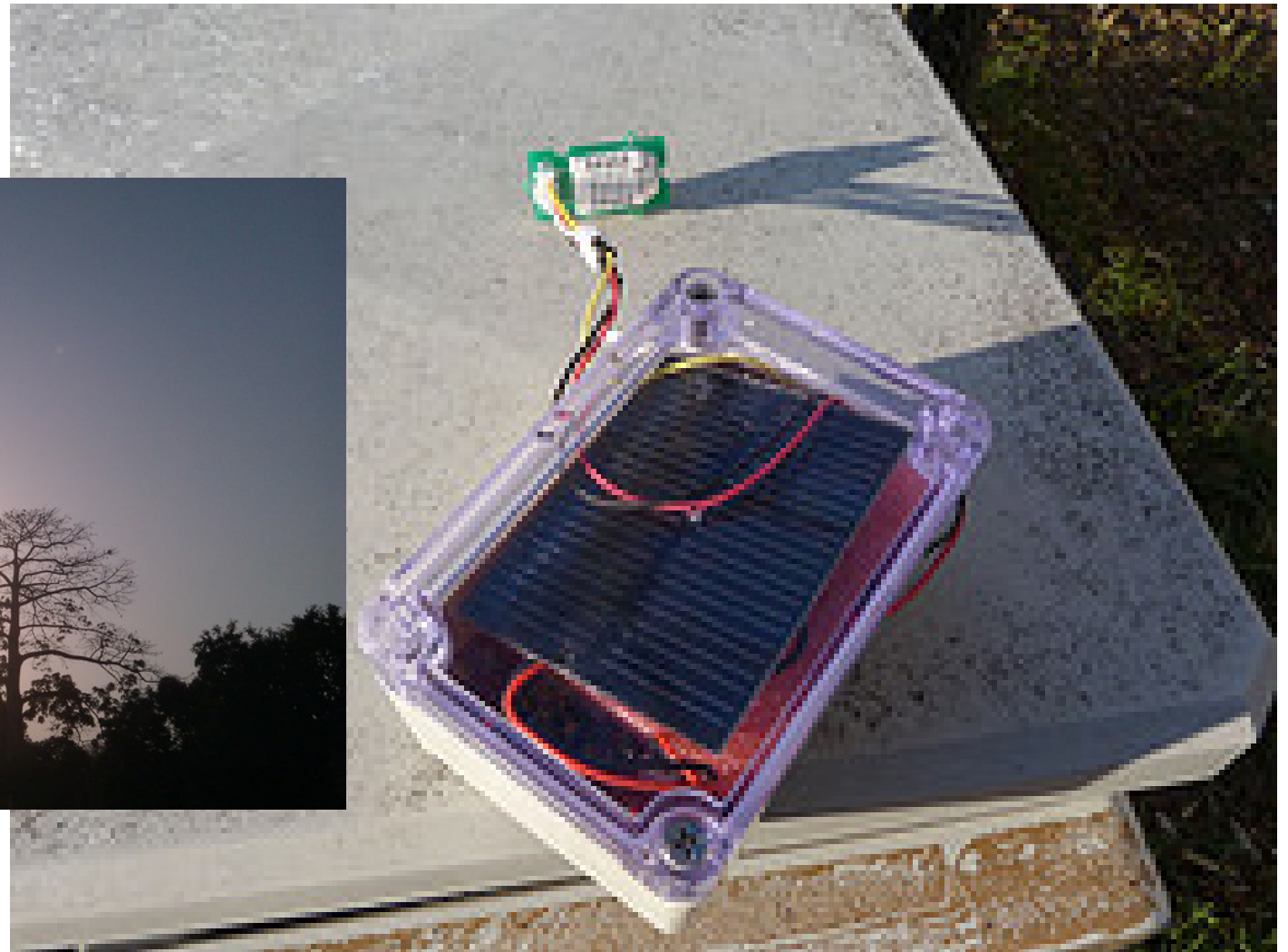
It is fully realistic and
about time to set a goal:

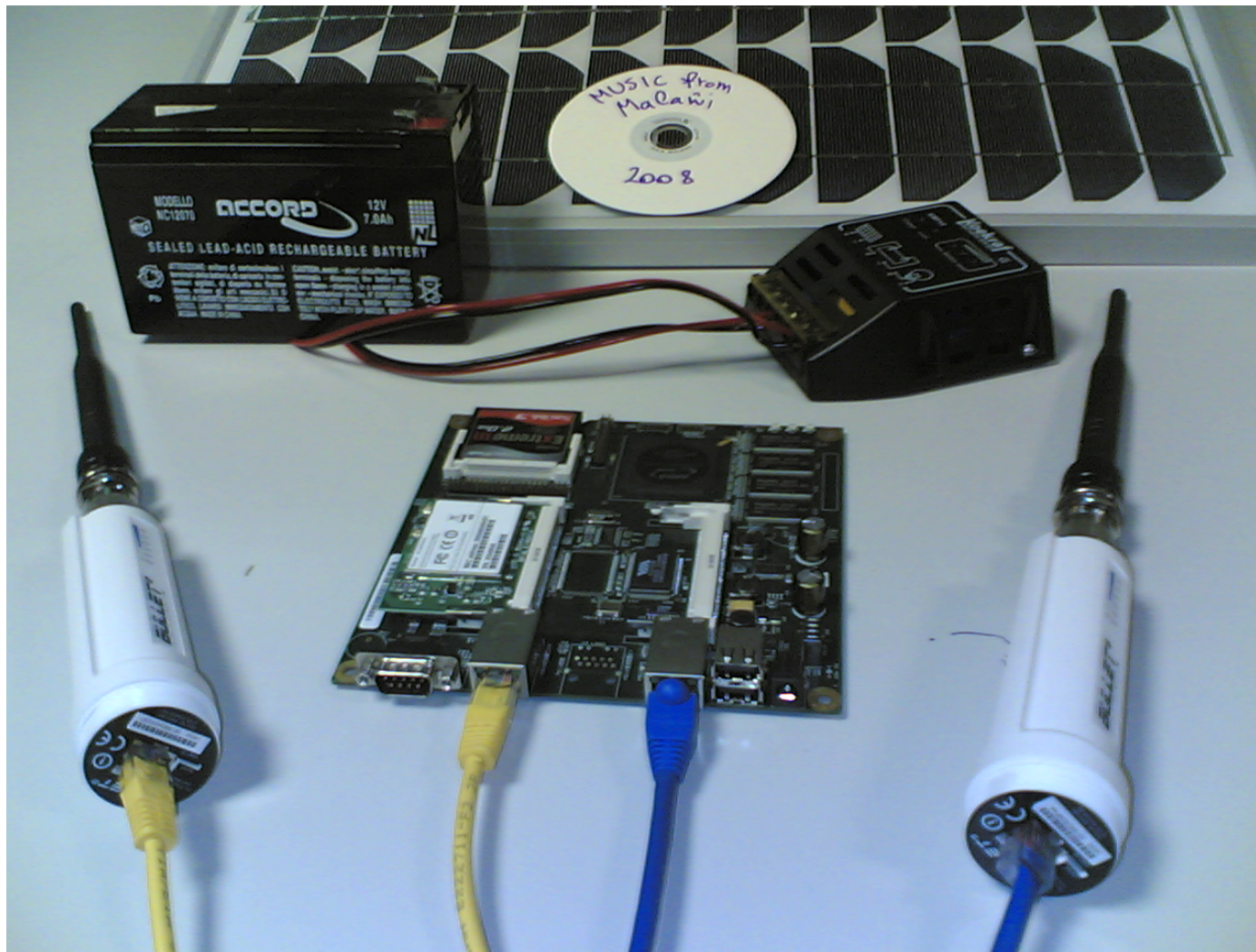
**Only deploy networks and IT
infrastructure
that you can power autonomously.**













NRENs, universities and scientific networkers
can and should take a
leading role
on the way towards a fully
sustainable energy future.

