

Grid Emission Factors
&
Off-Grid Power Generation
in Africa



Africa's current and all-too-frequent solution to Reliable Power = Petrol or Diesel Generators at Home & at Work:



- These pollute due to noise and exhaust fumes
- Daily cost of fuel
- Staffing and maintenance costs
- Initial cost to purchase generators
- Regular replacement cost



According to figures released by the National Electricity Regulatory Authority (NERC) of Nigeria :

- Africa's second largest economy
- Nigerians are currently spending N796.4 billion per annum on fuelling generators
 - As their **alternative** power supply
 - \$5.3 billion (USD) per annum
 - Paul Parks also taught us earlier today:
 - 80% of diesel is imported into Nigeria after being shipped half-way around the world
- Equivalent to the total sum spent by the Federal Government of Nigeria on **capital works during 2009**
- National grid is predominantly HYDRO
 - Thus, **low baseline**
 - **Erroneously devaluing most CDM projects inside Nigeria = LESS CERs to Sell**
- **Not the reality of the situation on the ground !!!**



Points to stimulate reflection and subsequent discussion:

- **Price Parity** for African CERs, as an adjunct to development and mitigation
- How might we collect **reliable baseline data** in Africa?
- **Suppressed Demand**, as a means to reflect the true worth of our African Projects
- **Lack of Emissions** to claim against inside Africa
- **PoA-specific issues**
- Under-valued CDM contribution, then increased difficulty with respect to **TOTAL PROJECT FINANCE**
 - Consistently introduces **Significant Lag Phases** into most African CDM projects
- Regional Power Grids as a baseline, e. g. SAPP