

(1) ENERGY IS A VALUE CHAIN

1.1 PRIMARY ENERGIES

renewables < = > fossil sources < = > nuclear fission

2.2 SECONDARY ENERGIES

electricity - hydrogen

2.3 INFRASTRUCTURES: ELECTRIC GRID SYSTEM

production – transmission – distribution – retail

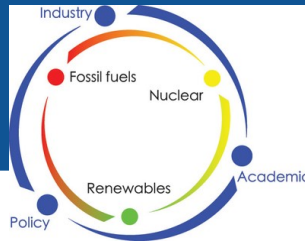
- decentralised (« small is beautiful » - rural areas)

< = > centralised (« big is ugly » - urban areas and big industry)

2.4 ENERGY SERVICES (heating, cooking, domestic, industry)

Conclusion : go for energy mix (secure, affordable, sustainable)

ANY INITIATIVE SHOULD BE END-USER DRIVEN (services !) ¹



(2) « RESEARCH and INNOVATION » in ENERGY and DEVELOPMENT

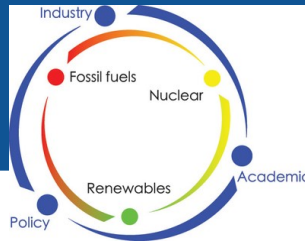
+ « EDUCATION and TRAINING »
(MOOC, doctoral, master-after-master, etc)

+ « STANDARDS and REGULATIONS »

+ « ENABLING ENVIRONMENT »

Role of public versus private sector

NB : Africa is ahead in daily life digitalisation e.g. « pay as you go »



(3) FOLLOW-UP OF THIS EVENT

The ball is in your camp ! Next event in Africa ?

Bottom-up initiatives (preferred at the beginning) :

- **Collection of qualified data (as opposed to « political data »)**
 - **Public consultation on energy strategy**
(questions regarding security, affordability, sustainability)
 - **Join existing associations or create new ones**
(e.g. Ingénieurs-Sud, Ingénieurs sans Frontières, etc)