# A Smart Energy Decision for ESG: Positioning Africa to Leapfrog towards Global Decarbonization

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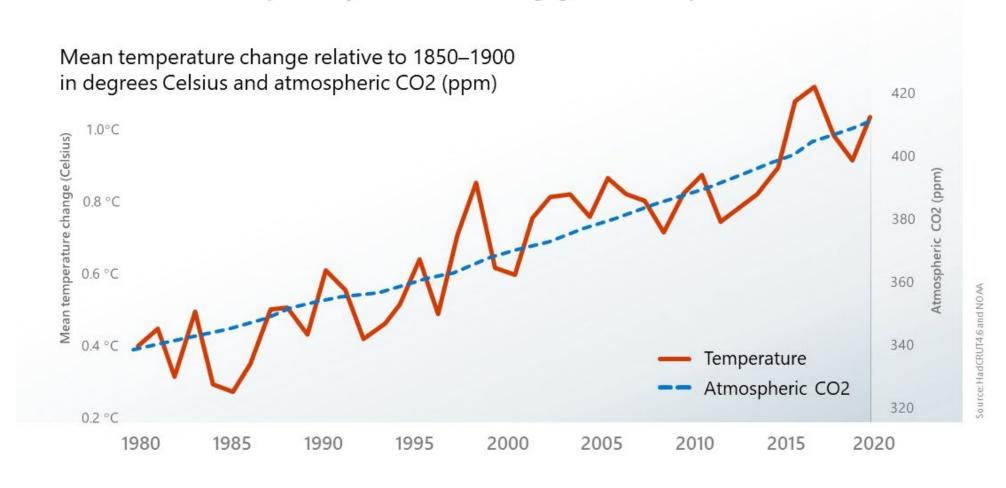




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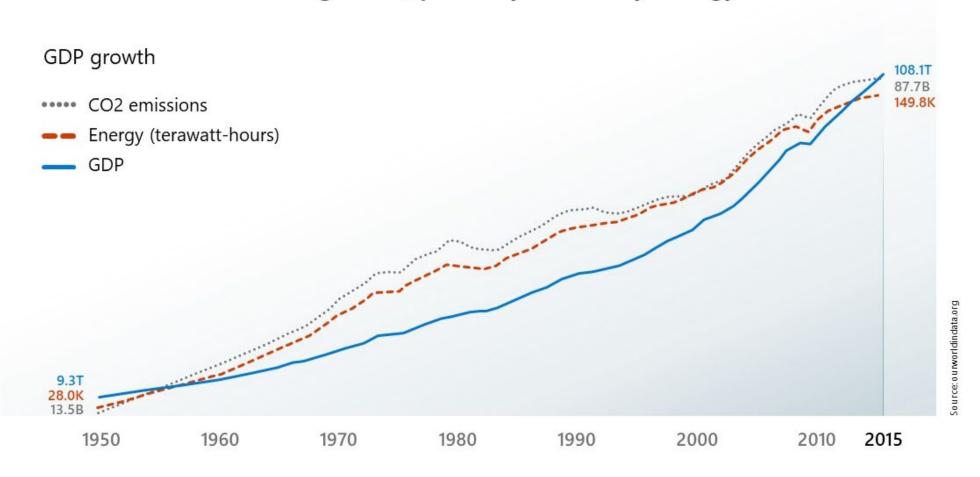
## The Urgent Need For Decarbonization

Increase in carbon dioxide emissions is the primary driver of rising global temperatures



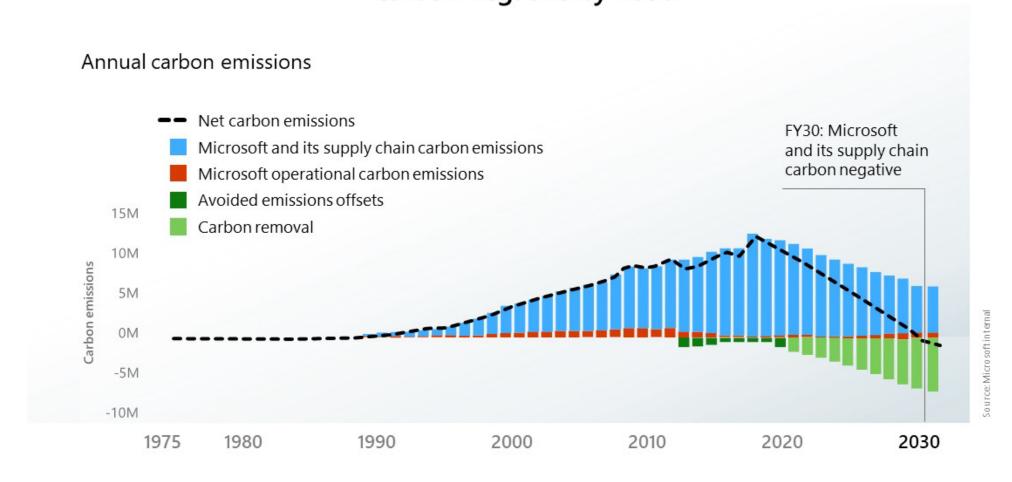
## **Economic Growth, Energy and Carbon Emissions**

Over the last century, the world has experienced unprecedented economic growth, primarily driven by energy use



## There is a Growing Demand for Global Decarbonization

An Example of Demand: Microsoft's pathway to carbon negative by 2030



## Nature Based Decarbonization in the Context of ESG



#### Goals and Objectives:

- Create jobs for local communities
- Support the development of a circular economy
- Produce plastic and steel alternative materials
- Avoid deforestation of traditional forests
- Educational opportunities for students
- Support carbon neutrality goals
- Develop carbon neutrality projects for off-takers
- Leverage existing global commitments and funding and other resources for climate action in Africa

<u>ESG</u> = <u>Environmental</u>, <u>Social and Governance aspects of equitable global sustainable</u> development (EGSD) for <u>a just global sustainability journey</u> where no one is left behind!

#### Bamboo Based Decarbonization in the Context of ESG

#### **Environmental**

- Captures and Store Carbon –
   Nature Based Solution
- Restore Natural Habitat –Bamboo Forests
- Circular Economy Bamboo products

#### > Social

- Sustainable Income for Farmers
- Equity and Justice
- Poor Communities Transformation

#### > Governance

- Transparence by Verification
- Digital access from farmers to corporate boards
- Direct payment to famers minimize corruption

#### **Project Partners**

- Bucknell University (BU)
- Africa Decarbonization Company (ADC)
- Smart Energy Decision (SED) Community
- A Global Financial Company
- Seeking Off-takers, Investors and Donors

## **Overview of Bamboo Production Program**

### Roles and Responsibilities

- ADC will work with local farmers and traditional leaders to plant and harvest bamboo
- ADC will assist community to develop bamboo-related addedvalue products
- Off-Taking companies will buy carbon credits and bamboo products
- Government involvement: to ensure adequate land, security and labor.

#### Benefits

- Uses of Bamboo: Furniture, Building materials, Pulp, Fabric, Renewable Fuel
- Afforestation and Reforestation
- Local and community job creation
- From import/export perspective:
  - ✓ Use bamboo as a substitute for wood and allied materials currently being imported
  - Export a variety of bamboo-based products to generate foreign exchange

#### **Needed Enablement from Government**

- ■Support through socialization of project
- Connectivity with appropriate agencies
- Timely approvals for land, easements, permits, etc.
- Introduction to local partners in the value chain
- Determination of contribution towards Nationally Determined Contribution (NDC)

## **Thank You**

Q&A





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