



SOUTH AFRICA - ESKOM BATTERY STORAGE PROGRAMME

Energy Storage Partnership Stakeholder Consultation

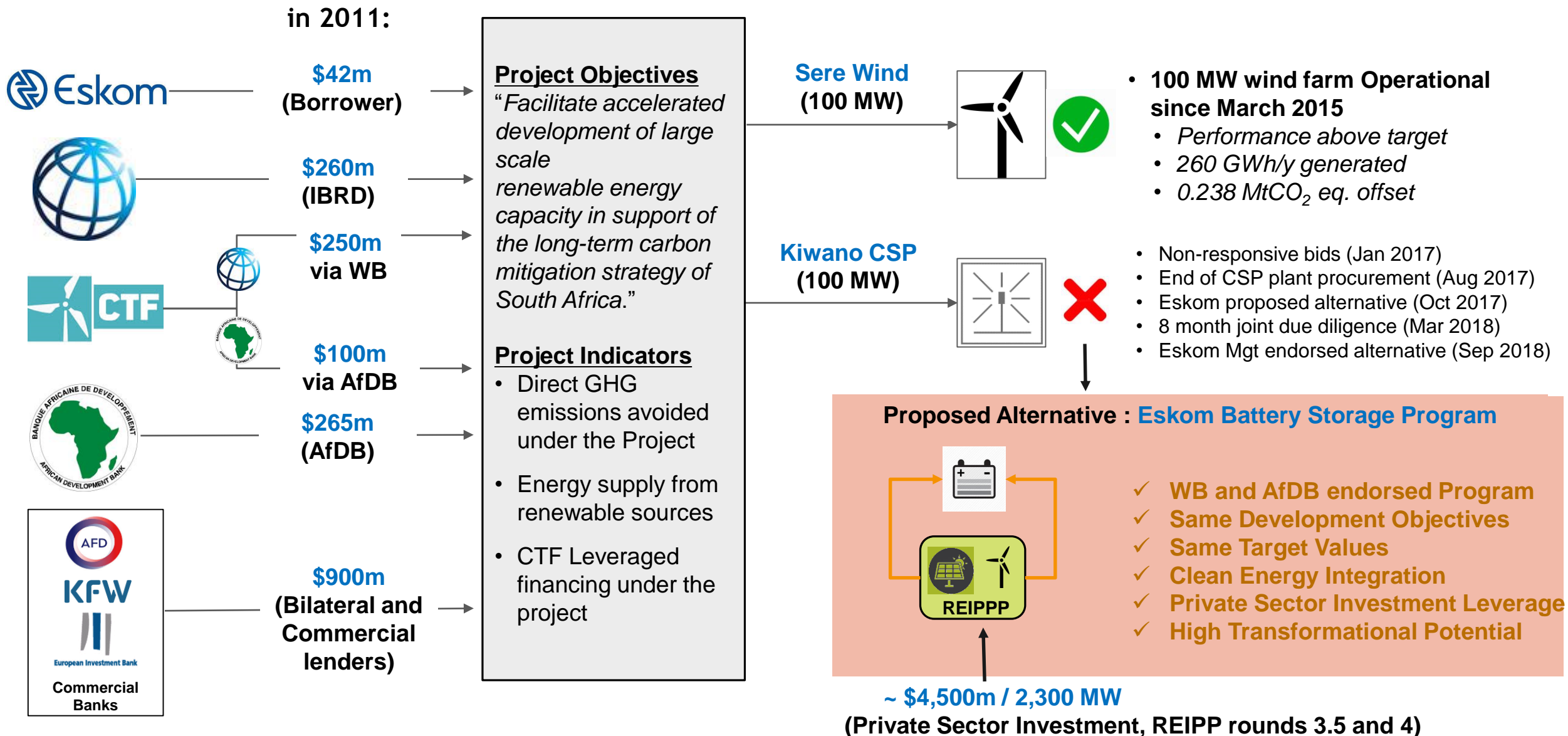
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World Bank | African Development Bank
Frederic Verdol | Antony Karembu

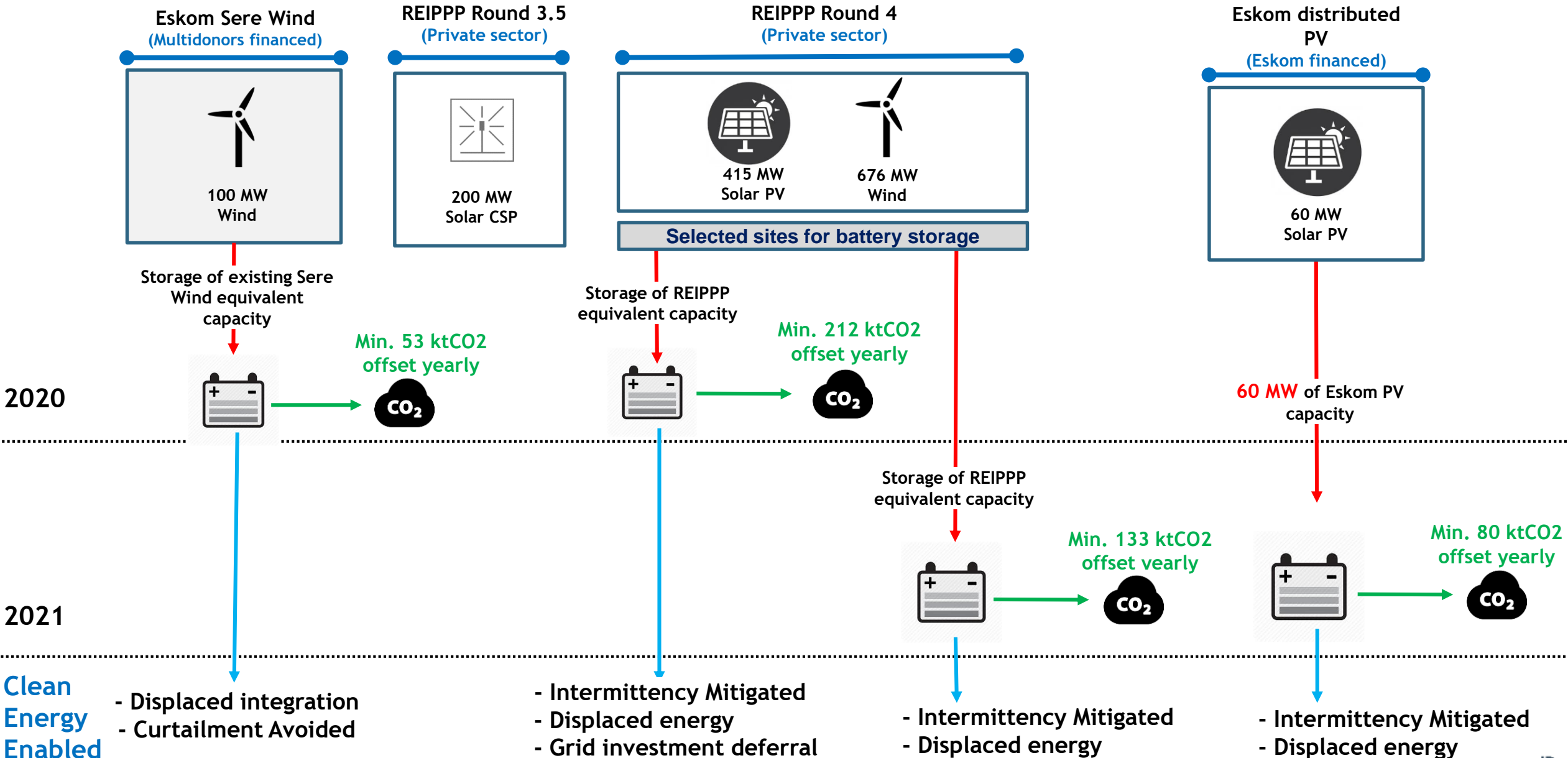


Eskom Renewables Support Project: History Current Status

AfDB and WB are Currently the Confirmed Financiers Supporting Eskom Battery Storage Program



Eskom Battery Storage Program Synopsis



Beyond The Eskom Program, a Transformational Potential

Demonstration effect of battery technology as THE tool for countries in Energy Transition

Utility perspective

- From a 'traditional' electricity producer to a **modern energy manager**
- With incoming 2,330 MW of Wind and Solar IPPs by 2021, **good timing** to acquire tools and skills for SA's energy transition to a cleaner mix
- Lessons from large-scale battery program useful to better integrate future **decentralized / rooftop solar** capacity
- More flexibility and more dispatchable clean energy thanks to the batteries, allowing to **decommission old coal plants**

South Africa perspective

- In a period of economy recovery, **reliability** of electricity supply is critical to attract private investment (industry, manufacturing)
- Scale up of battery technology in power sector to complement rapid expansion of **variable renewable energy**
- **Integration and industrialisation** in the battery storage value chain (mining, manufacturing, operation) feasible in South Africa

Africa region and Global perspective

- Over 5,000MW electrochemical batteries in operation worldwide, But **NO battery connected to the grid in all Africa**
- **Demonstration effect** in South Africa will enable variable renewable energy to expand faster in Africa, and in low income countries.
- Largest WB and AfDB operation on battery storage, mostly funded by CTF, this **flagship project** could serve as reference for many others.

Ngiyabonga! (Thank You!)

