



# Greening the Kenya Tea Industry and the Road to Durban - COP 17

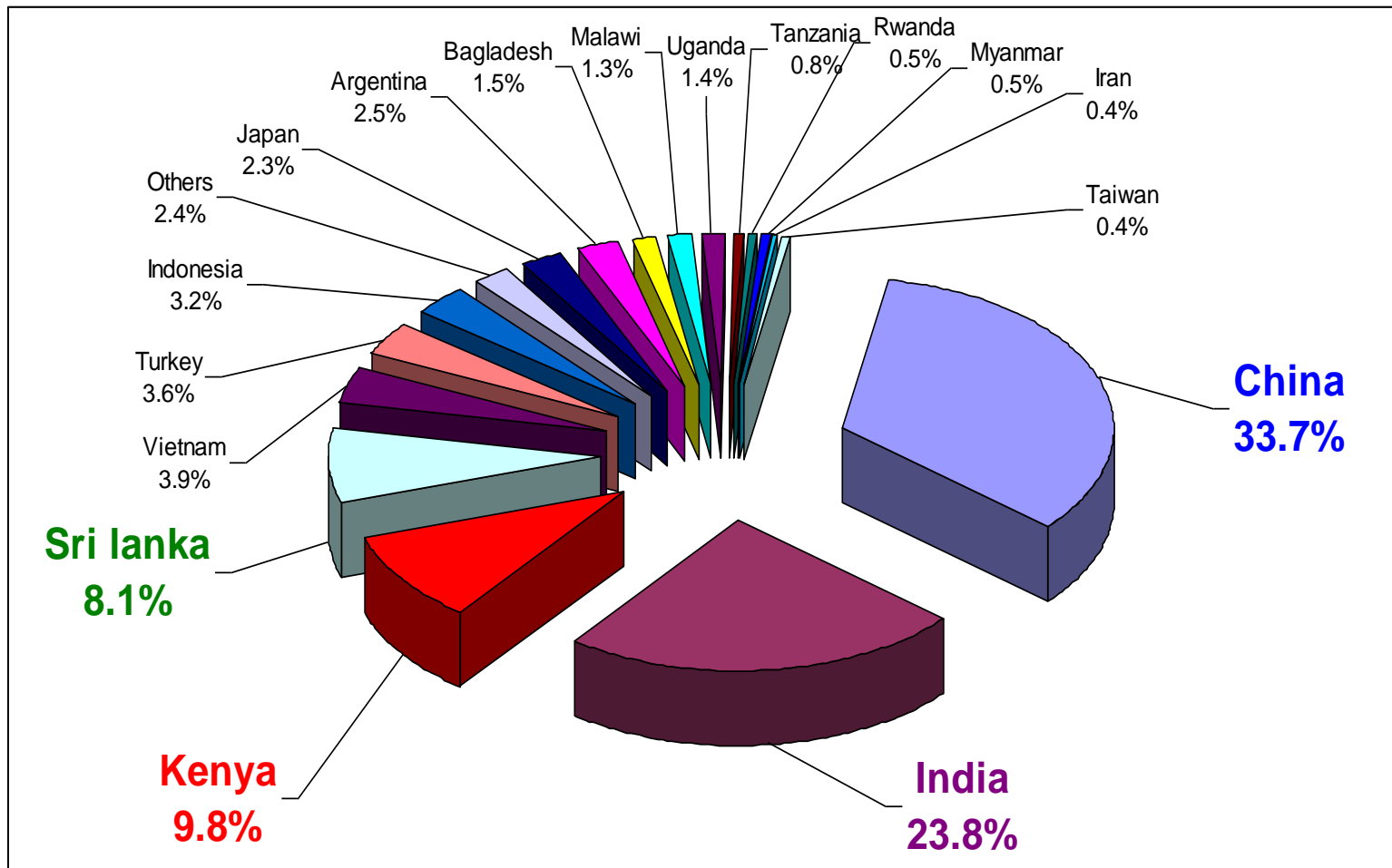
## Background of KTDA and tea production in Kenya

*Currently KTDA is the largest tea management agency in the world managing 65 tea factories in the smallholder tea sub-sector in Kenya - and controlling 60% of the Ksh 100 billion annual tea industry budget*

### **Tea industry growth in Kenya:**

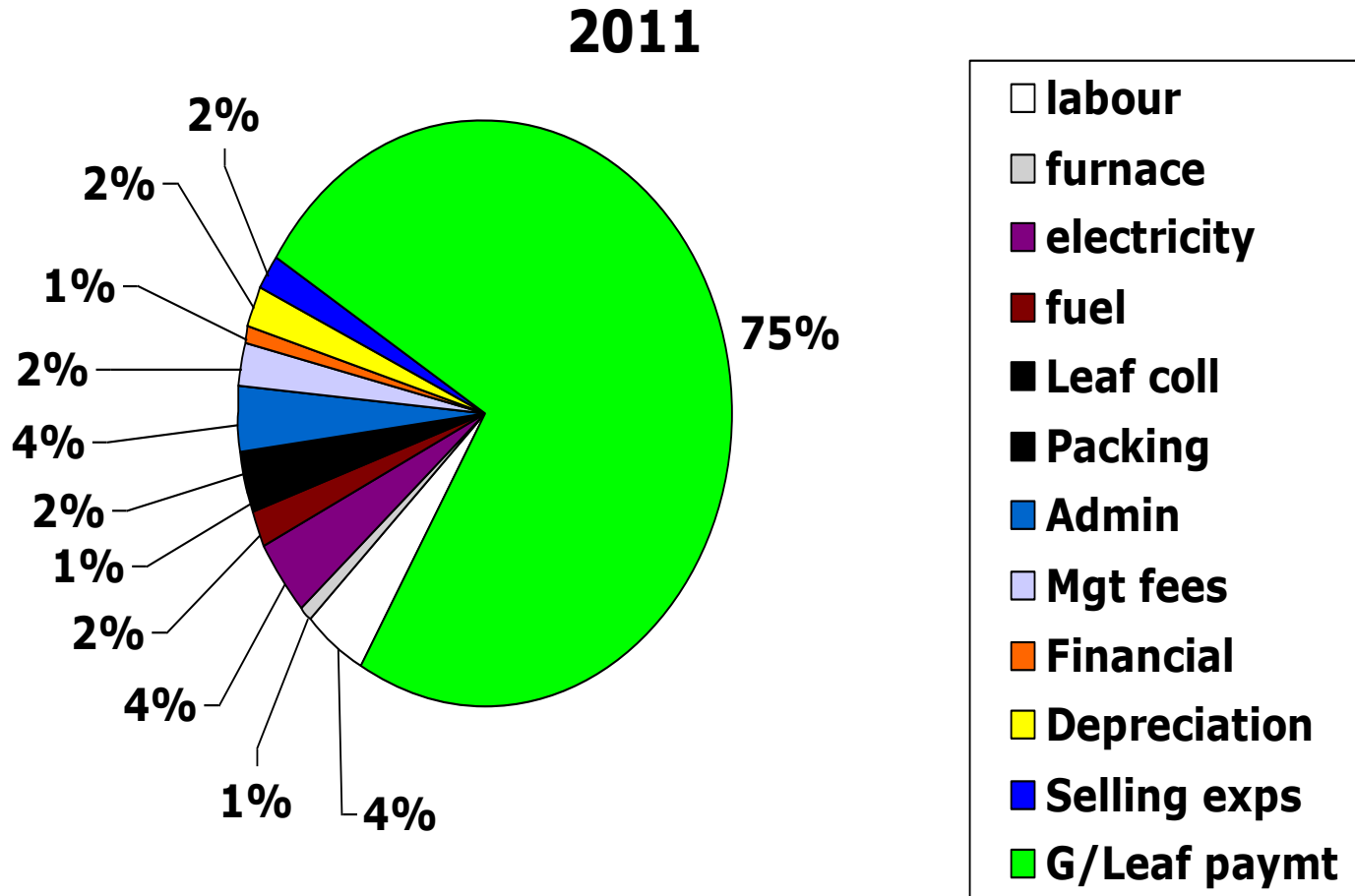
- Tea introduced to Kenya in Limuru in 1903.
- Commercial farming started in 1924.
- Smallholder tea cultivation started in 1950's.
- First small holder tea factory established in Nyeri in 1957 (Ragati TF).
- Special Crops Development Authority established in 1960.
- KTDA (Authority) was formed in 1964 as a Government parastatal to foster development of tea among smallholders tea growers in Kenya.

# World tea production in 2010

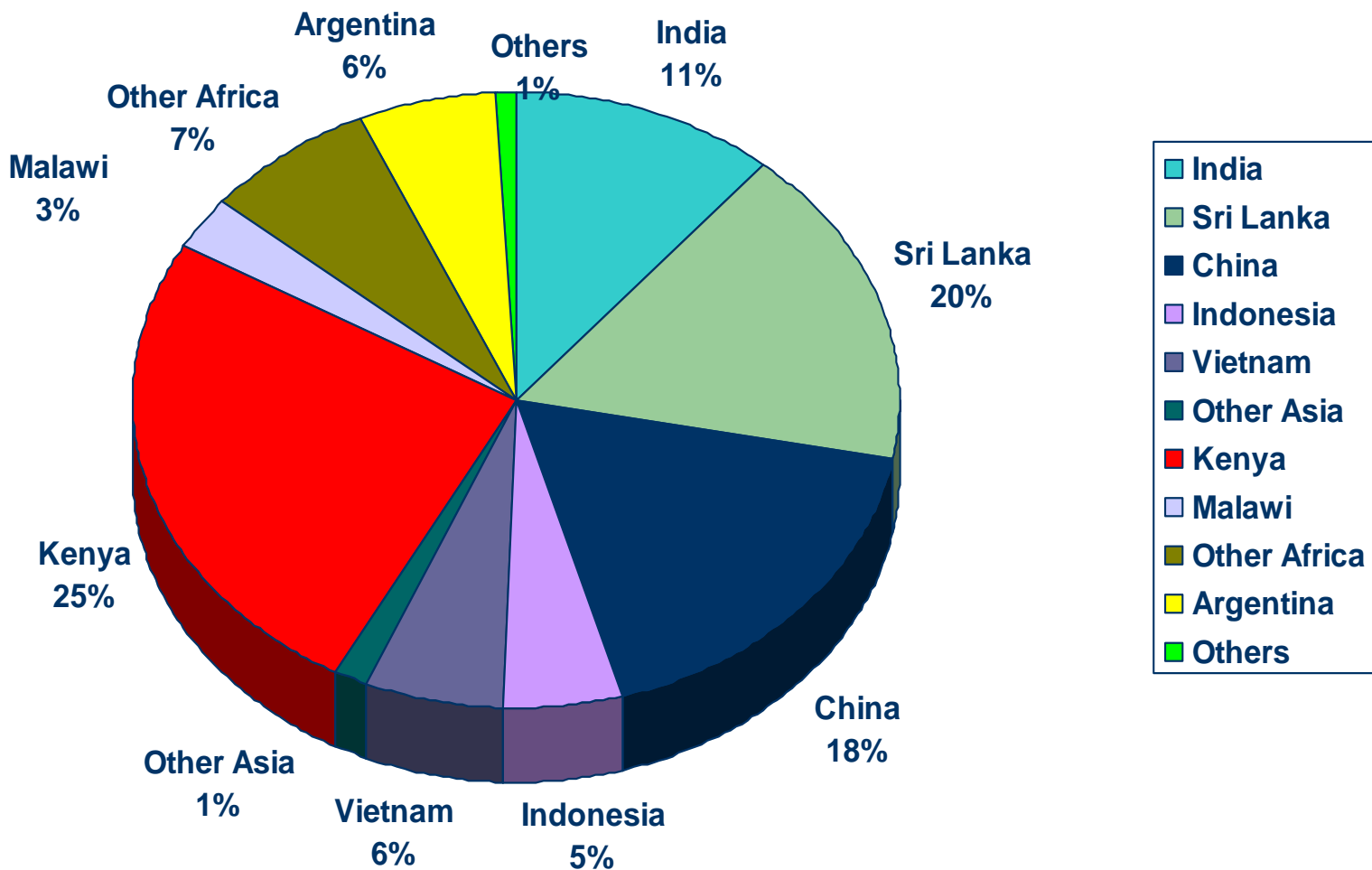


# Percentage expenditure of the Ksh 60 billion annual budget

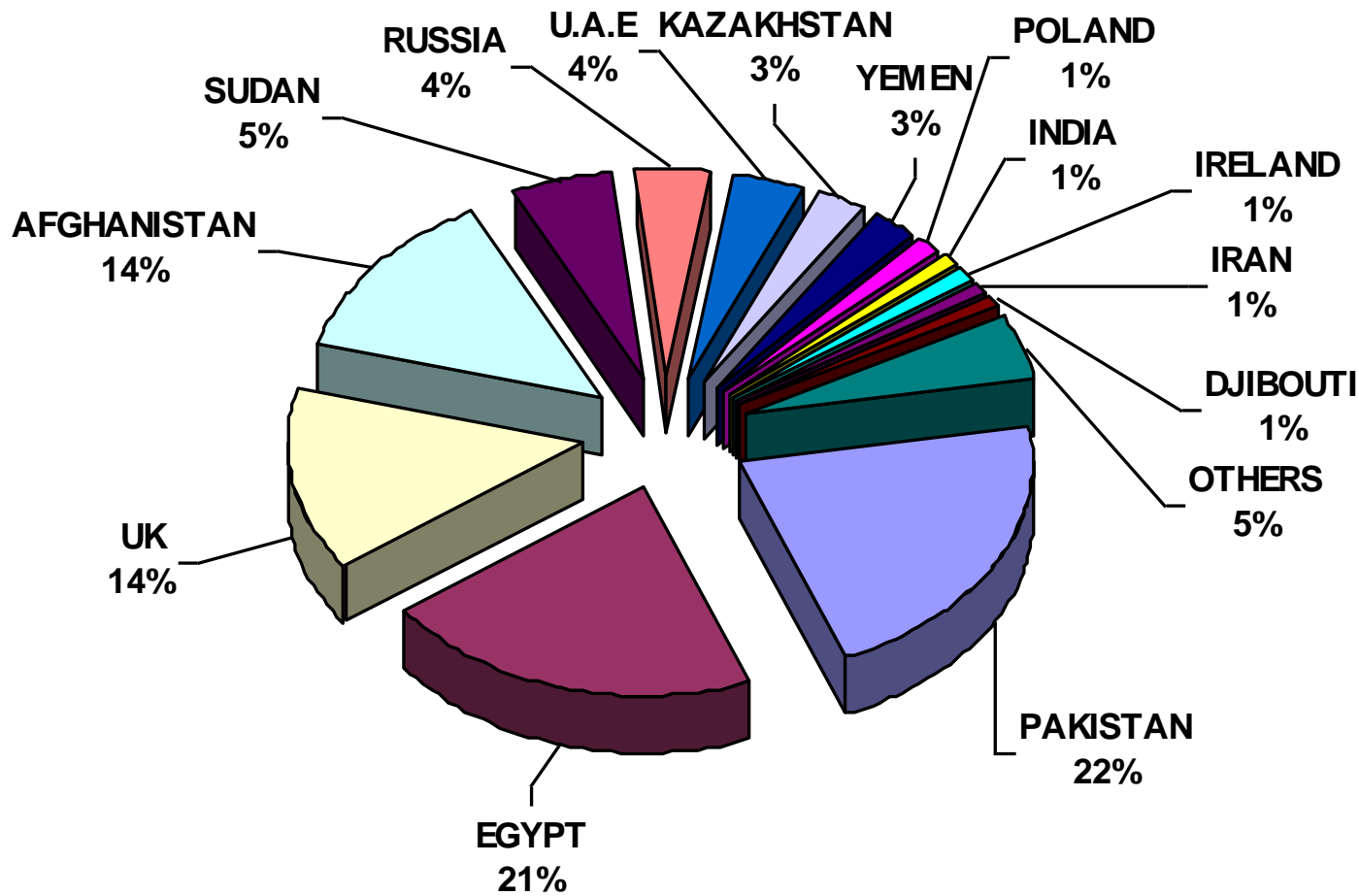
*Note: Around Ksh 3 billion spend annually on both furnace and electricity*



# Percentage world tea exports in 2010



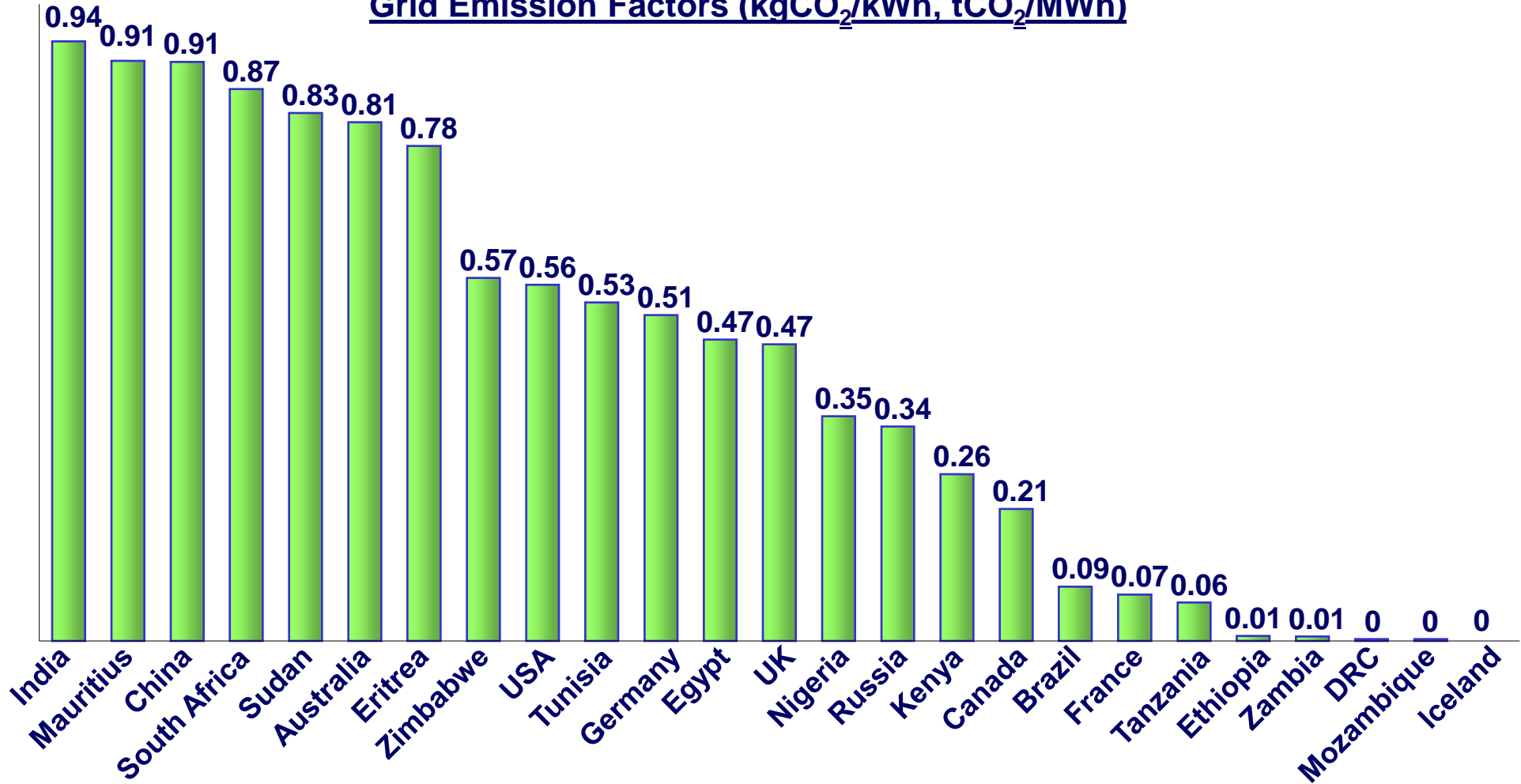
# Kenya tea export destinations - 2010



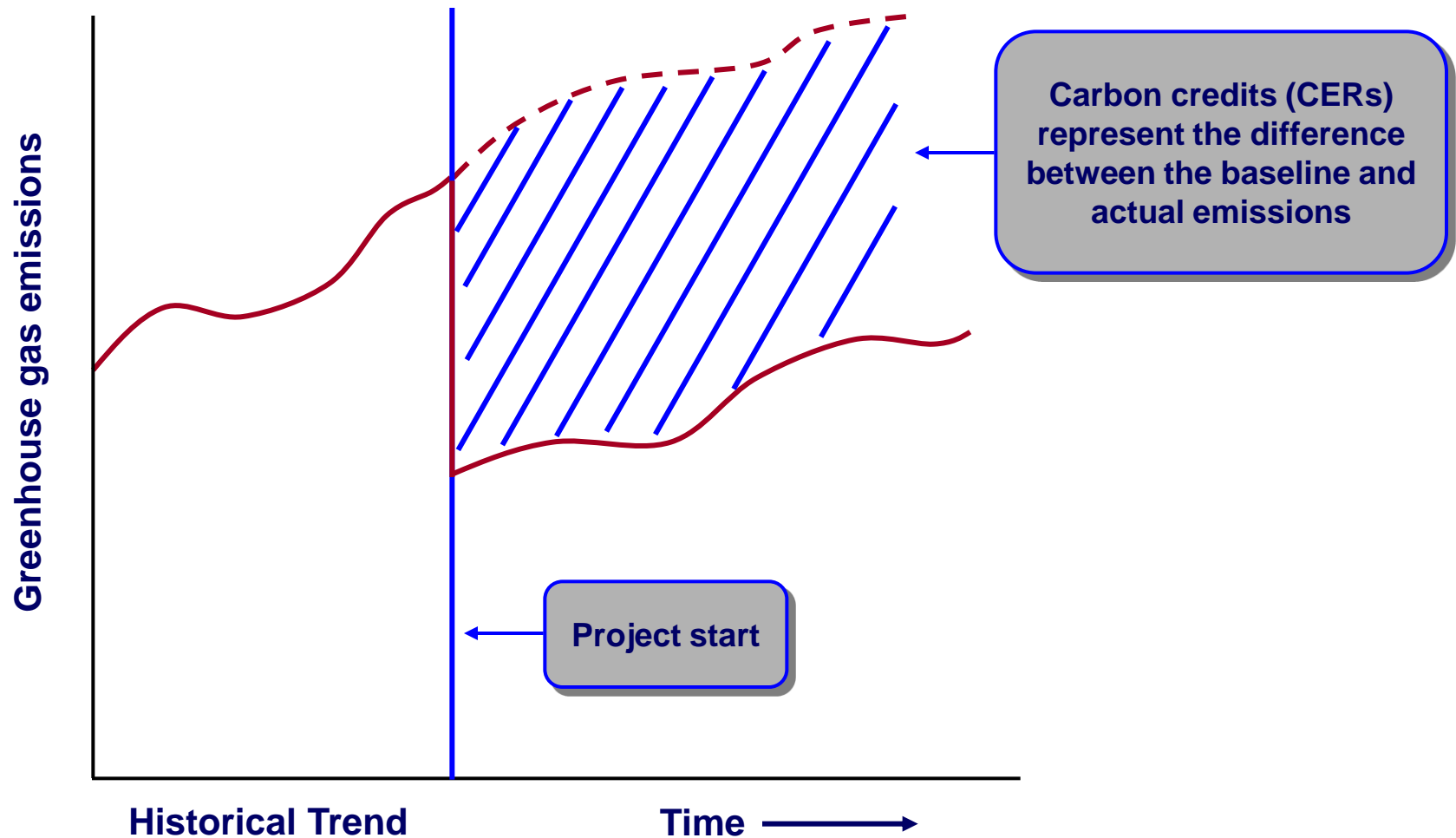
# Grid power and carbon emissions...

Note - more than 3yrs old

Grid Emission Factors (kgCO<sub>2</sub>/kWh, tCO<sub>2</sub>/MWh)



# How carbon projects generates carbon credits





# Potential carbon projects



**Wind power**



**Run-of-river hydro**



**Solar**



**Transport**



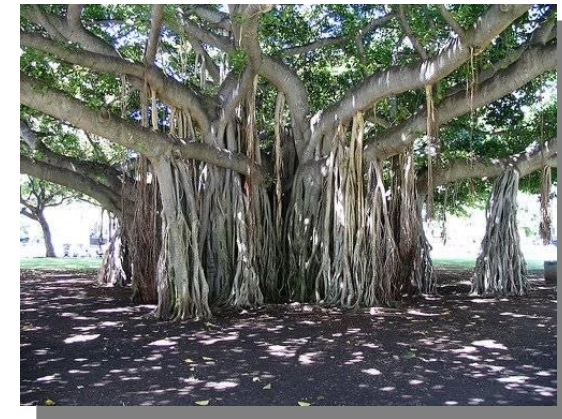
**Agro-forestry**



**Sewage / wastewater**



**Landfill**

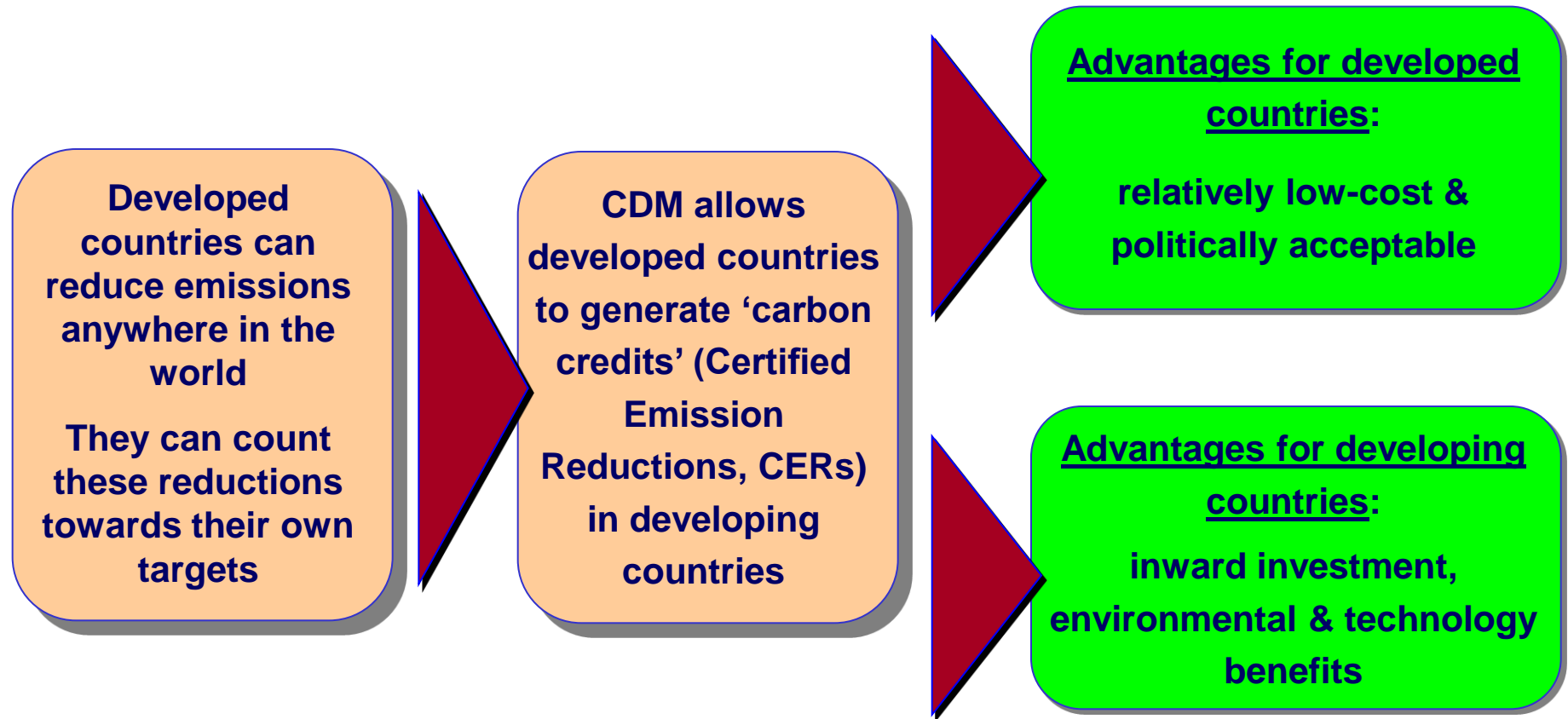


**Forestry**

## Carbon project eligible GHGs

Green House Gas	Global Warming Potential
Carbon Dioxide (CO <sub>2</sub> )	1
Methane (CH <sub>4</sub> )	21
Nitrous Oxide (N <sub>2</sub> O)	310
Perfluorocarbons (PFCs)	9,200
Hydrofluorocarbons (HFCs)	11,700
Sulphur Hexafluoride (SF <sub>6</sub> )	23,900

# The role of the Clean Development Mechanism (CDM)



## CDM projects out look - Africa is struggling ...



- **4 countries (China, India, Brazil and South Korea) account for 70% of CDM projects and 80% of CERs through to 2012**
- **Sub-Saharan Africa accounts for 2% of registered projects and 5% of CERs through to 2012**
- **88 non-Annex 1 countries have yet to benefit from any registered CDM project activity**

## What is Conference of Parties (COP)?

Internationally, the global response to climate change is guided by the United Nations Framework Convention on Climate Change (UNFCCC) through the COP framework. COP meetings are held every year (...around Dec). The last was held in Cancun, Mexico. This year, the meeting will be held D

*Kenya's aspiration in the COP framework is to engage in the UNFCCC process with a view of securing a **binding, multi-lateral international agreement** that is, **Inclusive, fair and effective - with a view of balancing priority between adaptation and mitigation responses; with an appropriate development - climate response balance** recognizing development needs of developing countries*

**Thank You!**