Greening the Charcoal Value Chain in Côte d'Ivoire

NAMA approach a





Charcoal remains one of the most important sources of fuel in Sub-Saharan Africa including Côte d'Ivoire. A look through the supply chain highlights the inter-linkages with issues of energy, deforestation, employment and other socio-economic and environmental challenges. A Nationally Appropriate Mitigation Action (NAMA) provides

🖁 an opportunity to develop a "sustainable charcoal value chain" through a combined approach of policies, technology intervention, finance and capacity building.

Charcoal Value Chain

Current status in Côte d'Ivoire





• Côte d'Ivoire has lost vast amounts of forest since its independence in 1960. At independence, Côte d'Ivoire had 16 million hectares (ha) of

forest. The remaining forest area is now significantly smaller although the exact area is unknown. The FAO estimates the area to be 10.4 million ha; alternative sources state the forest area to be as small as 1.7 million ha. Source: FAO (2010). Global Forest Resources Assessment



illegally; the majority of the wood used for charcoal production is

- obtained without permission and the majority of carbonization is done without proper permits. Almost all kilns in Côte d'Ivoire are traditional earth mound kilns which are the least efficient kilns in terms
- of charcoal yield. Charcoal production has been steadily increasing in order to meet the demand of a growing population which is increasingly urbanized.
- Source: FCPF and UN-REDD (2013). Readiness Preparation Proposal, Country: Republic of Côte d'Ivoire.



Charcoal value chain is cross-sectoral with sometimes conflicting and often poorly aligned policies and regulation coming from a variety of ministries:

 Environment and Sustainable Development Petroleum and Energy Agriculture Industry Transport

Water and Forest

- (2014). Reform of Procedures for Processing of Services for Road Transport Operations (in French).



urban population cooking using charcoal. • Only a limited (4%) amount of the rural population cooks using charcoal; of the 95% rural

population cooks using wood. Transport sector is disorganized and rife with corruption which leads to significant increases in the cost of charcoal.

Use of improved cookstoves is

- extremely limited although there are a number of recent initiatives to sell or distribute improved cookstoves. Source: Republic of Côte d'Ivoire National Institute of Statistics (2002). National Household Standard of Living Survey (in French). Abidjan, Côte d'Ivoire. Republic of Côte d'Ivoire Ministry of Transport
- Sustainable

1. Addressing deforestation and degradation Train community member trainers, who then train others, in

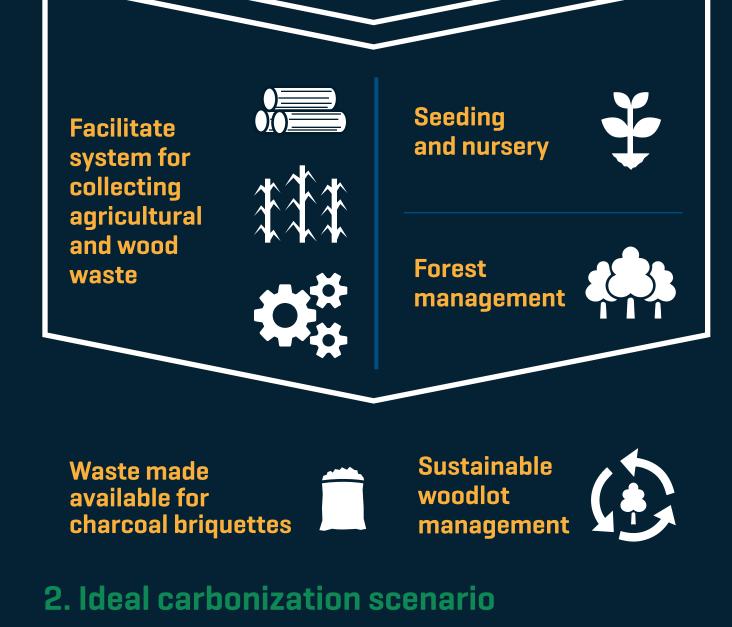
Charcoal

Value Chain



Improvements under

sustainable biomass procurement



Interventions and capacity building

Woody Biomass

+ Agricultural &

wood waste

Technological

Charcoal bagging,

ecolabels and taxes

support









Real time operational management of the administrative

procedure related to all road transport operations

Secure management of transport titles

4. Promotion of efficient charcoal consumption

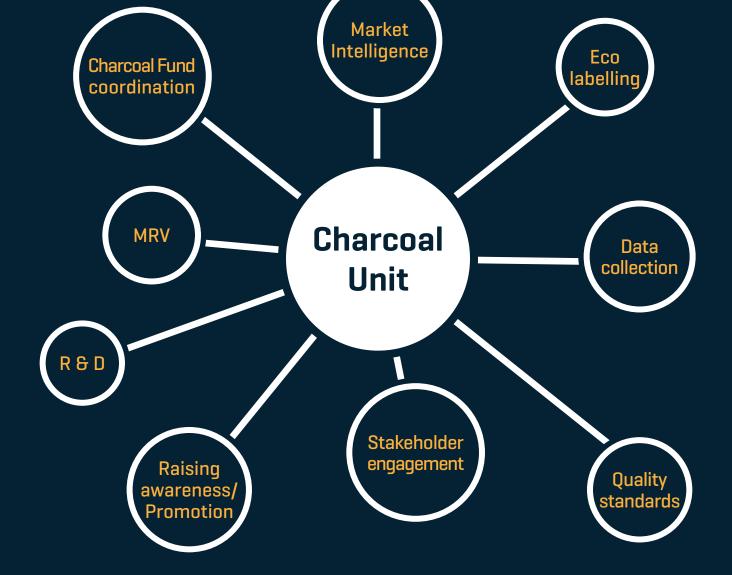
Member of charcoal association travels

with transporters to

Source: Republic of Côte d'Ivoire Ministry of Transport (2014). Reform of Procedures for Processing of

Services for Road Transport Operations (in French). Available from http://www.transports.gouv.ci/img/1406734180LA%20REFORME.pdf.

through the proposed Charcoal Unit



5. Improved alignment of policies,

strategies and plans

Ministry of Transport

Inter-Ministry of Ministry of ministerial **Environment** Petroleum & & Sustainable Steering Energy Development Committee **Ministry** Ministry of of Water **Industry** & Forest **Civil Society Organizations**

Private sector

Ministry of

Agriculture

a-study-for-sustainable-charcoal-value-chain-in-cote-divoire-/ For more information: Dr. Alexandra Soezer, MDG Carbon,

Sustainable Development is available here:

UNDP. www.mdgcarbon.org

The complete NAMA Study jointly developed by UNDP's MDG Carbon and the Regional Environment Project on the Management of Environmental Services and Financing for

http://www.undp.org/content/undp/en/home/librarypage/environment-energy/mdg-carbon/nam

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