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Opportunités de l'électricité en milieu rural pour l'Afrique

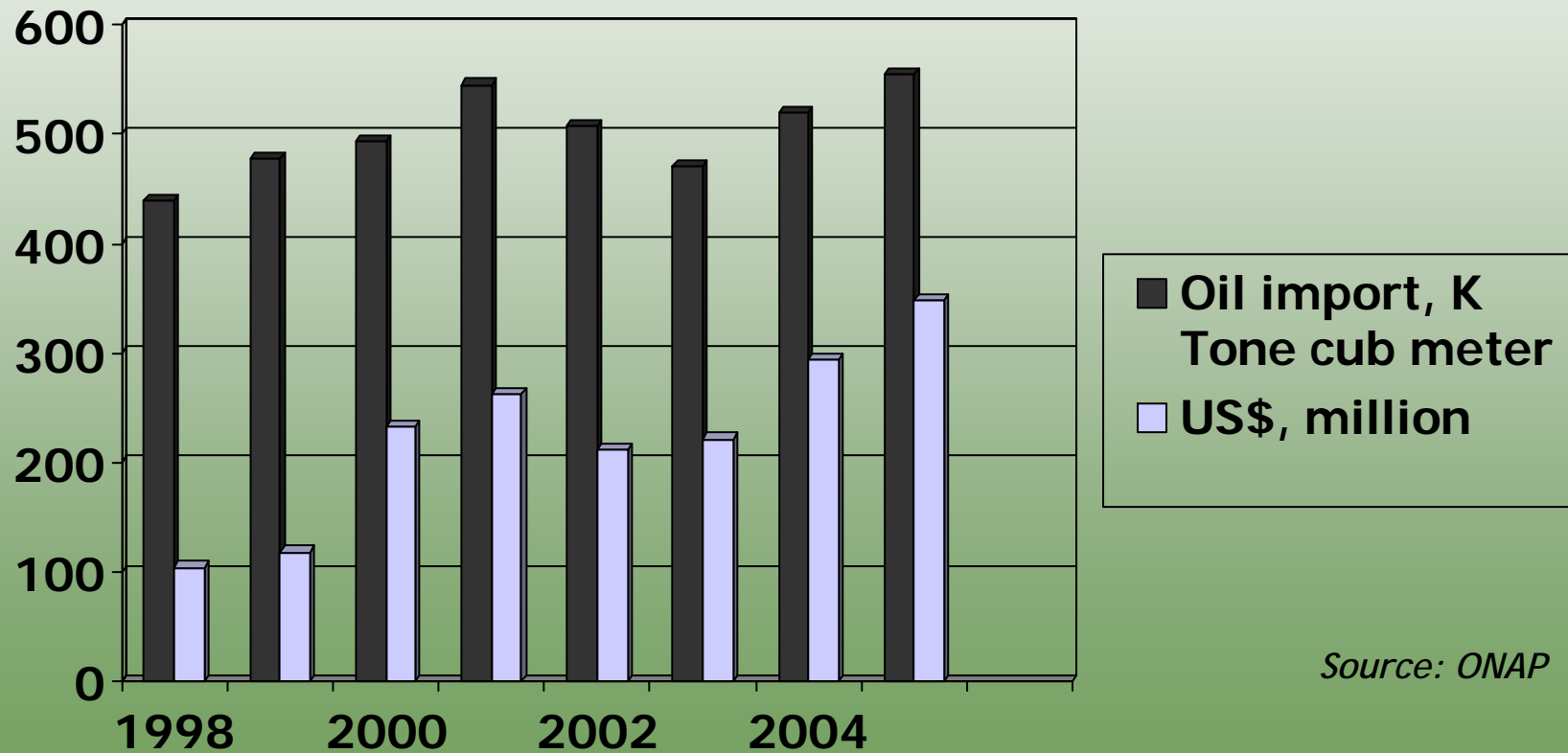


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Impact of oil imports on the economy of a non-oil-producing country like Mali



Source: ONAP



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BIENVENUE



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GARALO



Embedded in local community



- ◀ The village of Garalo contacted MFC in 1999 to request electrification
- ◀ Consultation with village and municipality at each step
- ◀ Village ownership and participation





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MFC Nyetaa PPO experience in Mali

- ◀ Barrier removal project with CNESOLER to produce local press , funded by UNEP
- ◀ 5 rural energy services centres with 7 kW generator each, which run on jatropha oil. These centres provide rural communities with agricultural services, battery charging, public lighting, etc.
- ◀ MFC initiated the conversion of two pick up Toyota pickups to run on Jatropha oil with the technical support of Elsbett GmbH, a German company. This project aims to show the possibility of using Jatropha in the transport sector.



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GARALO BAGANI YELEN

- a new paradigm of energy for sustainable development

A Jatropha-fuelled rural electrification project
for 10 000 people in the Municipality of Garalo



Garalo Bagani Yelen - a new paradigm of energy for sustainable development

- ◀ 300 kW of gensets, to run on *locally produced* Jatropha bio-oil
- ◀ 15 years of clean electricity production will transform the local economy. African villages need power - (biofuel or it can be diesel)
- ◀ Largest project of its type in Mali (in terms of plantation size and power output), possibly in West Africa.
- ◀ Electricity will be a catalyst for local SME/SMI development and job creation



Project partners:

- ◀ Municipality of Garalo
- ◀ MFC Nyetaa developed and now coordinates the project in Mali
- ◀ ACCESS SARL an innovative Malian energy service company, is responsible for sale of electricity
- ◀ FACT Foundation International group of biofuel specialists based in Netherlands provides technical support
- ◀ SHGW Foundation based in Netherlands provides finance for the jatropha part
- ◀ AMADER Malian Agency for Rural Electrification & Domestic Energy provides WB/GoM/GEF subsidy to finance electric part



MFC's Garalo Bagani Yelen project

Rural electrification based on jatropha oil....

- ◀ Renewable energy can drive local sustainable development, leapfrogging the fossil fuel stage.
- ◀ Diversification of incomes
- ◀ Deeply embedded in local society with support from the village and the municipality
- ◀ 1 000 hectares of Jatropha distributed among peoples fields, 550 ha implemented by MFC in Garalo area and the the western part of Mali
- ◀ Local sustainable projects of this type need prioritisation and protection



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The mini grid and end users





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The energy source to power the engine in Garalo





Impacts...



- Since diesel is going to be replaced by jatropha, the considerable money to pay for fuel goes to local people for collecting seed instead of paying for fossil fuel imports. Value is added at the village level, and the local economy is stimulated.
- The jatropha plant in this project needs almost no maintenance.
- For local production and local used, jatropha is an affordable environmentally friendly solution to rural energy service provision using local biomass to generate mechanical or electrical power as the Garalo project.





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... and this can reduce poverty and increase standards of living for the women, men and children of Mali...



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Awnicié -Merci!

www.malifolkecenter.org

