

Building the First Biochar Plant in Benin

Supported by the Association of African Entrepreneurs and the Association Defense Jeunesse et Solidarite (ADJS-NGO)

Benin

Located in West Africa, approximately
the size of Pennsylvania

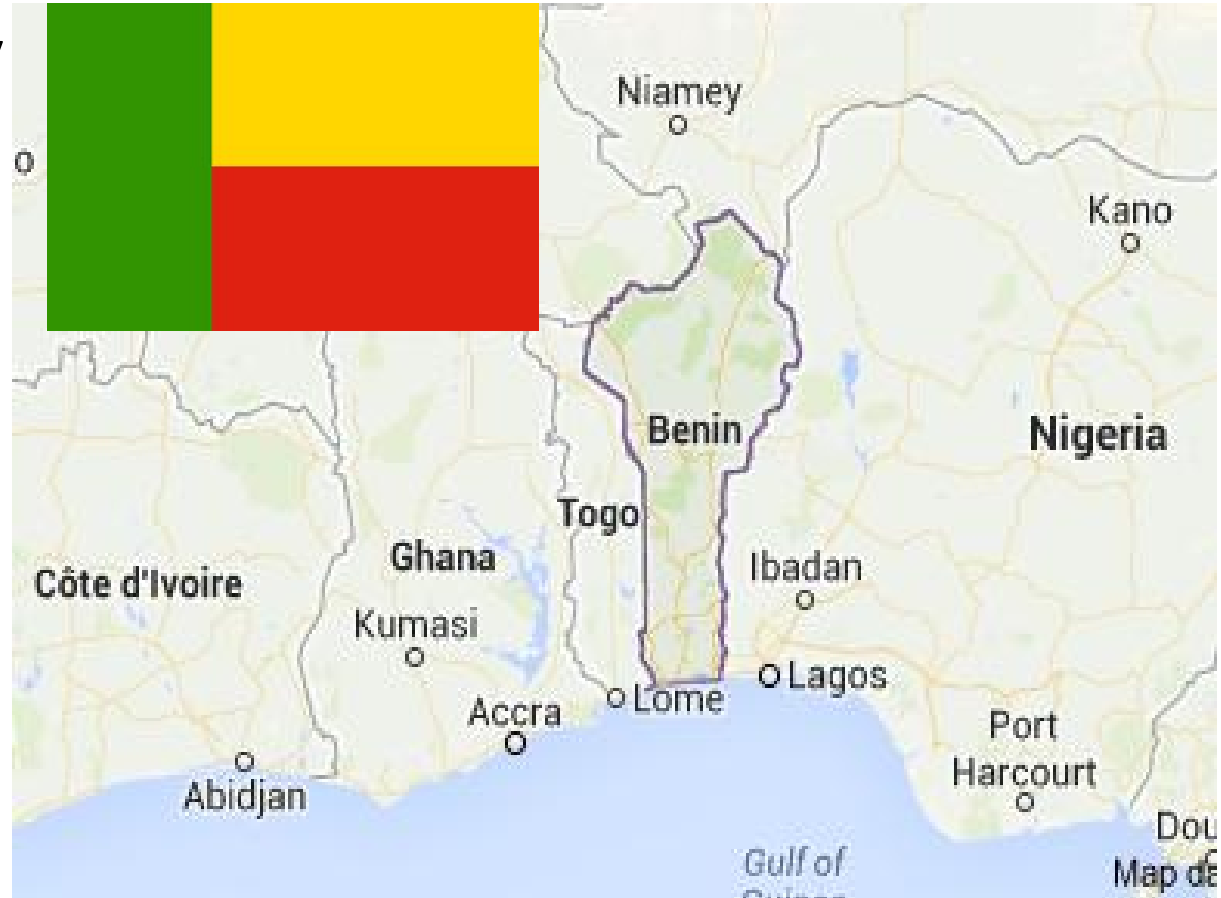
Official Language: French

Population: 9.8mm

Literacy: 42.4%

Economy

- Dependent on subsistence
agriculture
- GDP: \$15.8b
 - Services: 57.7%
 - Agriculture: 35.9%
 - Industry: 6.4%



Energy in Benin

Electricity

- Production: 120 million kWh (192/196 countries)
- Installed Generating Capacity: 60,000 kW (176/196 countries)
- 98.3% of the Installed Capacity is Produced by Fossil Fuels
- Carbon Dioxide Emissions from Energy Consumption
- 3.6 million Mt. (132/196 countries)

Related Environmental Issues

- Deforestation
- Desertification



The Project

The Association of African Entrepreneurs and ADJS NGO are fundraising for, managing and building out Benin's **First** Biochar Energy Plant

Project Goals:

- Provide much-needed electricity to Benin's agricultural communities
- Encourage and support the usage of "Green Coal" in place of wood for fuel
- Create local, long-term jobs in Benin
- Help prevent climate change, desertification and deforestation in Benin



What is Biochar?

- **Biochar is created by heating biomass in an oxygen-free chamber in a process called pyrolysis. Biochar or “Green Coal” is a type of sustainable charcoal:**
 - “Green Coal” is created from sustainable biomass resources such as waste yard trimmings, agricultural refuse, leaves, grasses, and manure
 - Biochar or “Green Coal” can be used as a Carbon Sink, meaning Biochar sequesters carbon in the coal, which can then be buried, preventing the release of CO₂ into the atmosphere



The Biochar Fuel Manufacturing Process



- The biochar fuel plant will use a carbonization machine called aPyro-6F, which will continuously recycle CO as an energy source for the pyrolysis process
- The plant will produce biochar “bricks” from locally produced waste biomass, collected year round by hired village groups
- The biochar will be sold in Beninese market places, and its proceeds will help fund the future biochar manufacturing plants in benin

Funding Breakdown

The Biochar Plant requires \$86k in funding

ADJS is self-funding 30% (\$26k) of the total project cost

ADJS is fundraising for \$56k of which \$52k will be used to purchase manufacturing equipment

| Expense | | Amount |
|---------------------------------------|----------------------------------|------------------|
| Equipment | | |
| | Manufacturing Equipment | 52,000 |
| | Computers | 3,600 |
| | Digital Camera | 1,800 |
| TOTAL EQUIPMENT: | | 58,600 |
| Occupancy | | |
| | Building for Manufacturing Plant | 6,000 |
| | Motorcycle | 1,500 |
| | Office Supplies | 1,200 |
| TOTAL OCCUPANCY: | | 8,700 |
| Salaries and Management: | | |
| | Travel | 1,500 |
| | Audit Expense | 1,000 |
| | Grant Management (5%): | 3,885 |
| | Salaries | 12,000 |
| TOTAL SALARIES AND MANAGEMENT: | | 18,385 |
| TOTAL PROJECT EXPENSE: | | 85,685.00 |



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