

GREENING JAMAICA THROUGH BIOMASS BRIQUETE PRODUCTION

A PRESENTATION by

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**For
CIF PARTNERSHIP FORUM
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Montego Bay, JAMAICA



JAMAICA NUFF PROBLEM MAN!!



- Smoke
- Asthma
- Erosion



JAMAICA NUFF PROBLEM MAN!!



Burning of garbage =

- Green House gases
- Low rainfall



Respiratory
Problems

HAVING TROUBLE!!

- Lack of recycling policies
- Dependency on imported items
- The dumps are overflowing.



High Unemployment Low Income, & High Cost of Fuel

- More persons using charcoal



Pics Courtesy of the Gleaner Jamaica & Internet

SOURCES OF AGRICULTURAL WASTE

- Ackee processors,
- Fruit juice manufacturers,
- Woodwork shops
- Market waste
- Cardboard & paper
- Landscaping waste (grasses trees)
- Farm waste





**HOW WE CAN
HELP.....??
BRIQUETTES
TO THE RESCUE!!!**

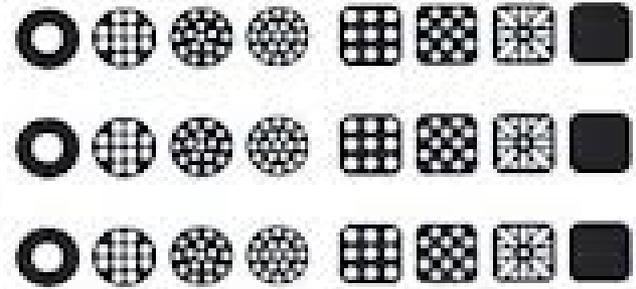
FUN FACT!!!

Low carbon impact

It is estimated that 1 ton of briquettes will

replace an average **1.2 tons of**
firewood and 0.3 tons of charcoal and
abate **6.1 tons of CO₂**

DIFFERENT TYPES OF BRIQUETTE



HOW DO WE MAKE A BRIQUETTE???



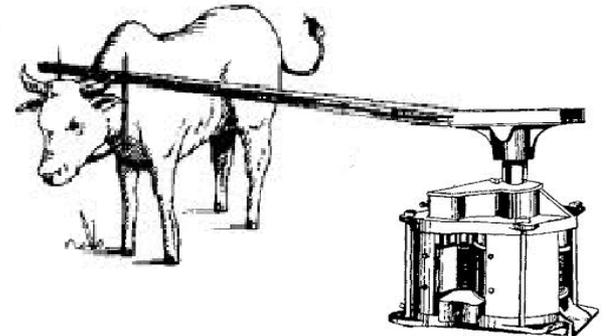
- BY HAND



- BY MACHINE PRESSES



- USING ANIMAL POWER for traction!



DEMONSTRATING HOW IT IS “**DONE**” IN A JAMAICAN CONTEXT



GET ALL THE
INGREDIENTS
AND KNOW
YOUR RECIPE!

GET A DRUM
WHERE ALL
MATERIALS
CAN BE
SOAKED...



MAKING BRIQUETTES

- Add water with hose, and soak for a few days depending on type of biomass



MAKING BRIQUETTES



**BEFORE
SOAKING...**



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MAKING BRIQUETTES



**DURING
SOAKING...**



MAKING BRIQUETTES



**AFTER SOAKING...note
material has "swollen"**

MAKING BRIQUETTES



**CASTOR BEAN RESIDUES FROM
SHELLING IN A MACHINE**

MAKING BRIQUETTES



**ADD MATERIALS TO RECIPE,
SAWDUST, MORINGA, CASTOR
EXTRUSIONS**

MAKING BRIQUETTES



**MIX WELL AND TEST MOISTURE
CONTENT FOR GOOD STICKING
TOGETHER OF BRICK....**

MAKING BRIQUETTES



**SQUEEZE TEST FOR GOOD COMPRESSION
AND ADJUST MOISTURE OR RECIPE AS
NEEDED.**

MAKING BRIQUETTES



**WHEN MIX IS RIGHT, SQUEEZE INTO MOLD
AND PRESS AND ADD AS NEEDED...**



ONE TWO THREE, PRESSSS!!!



TADA!!!!

OPEN MOLD AND TAKE OUT BRIQUETTES !!



FEELING
HOT HOT
HOT??





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Courtesy of New Horizons Engineering and Skill Training Facility, Spanish Town.

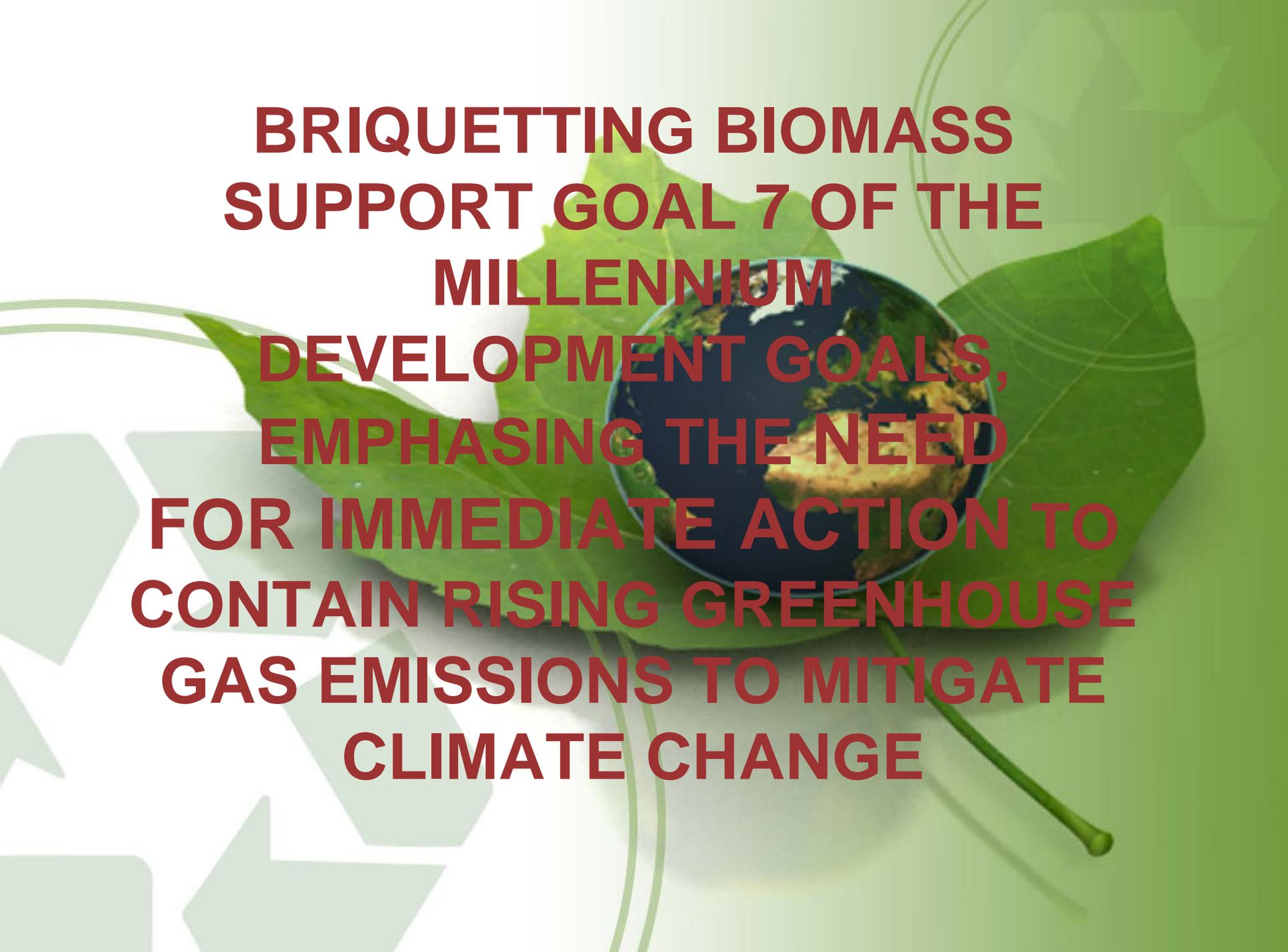


BRIQUETTE POWERED ITEMS

Briquettes would be an easier way to cook, heat, dry fruits, vegetables, teas, produce etc. as a “back-up” to gas, and even **SOLAR POWERED EQUIPMENT**



Courtesy of New Horizons Engineering and Skill Training Facility, Spanish Town

The image features a central globe of the Earth, showing continents and oceans, resting on a large, vibrant green leaf. The background is a light green gradient with a faint, large recycling symbol (three chasing arrows) visible on the left side. The text is overlaid in a bold, dark red font, centered and arranged in ten lines.

**BRIQUETTING BIOMASS
SUPPORT GOAL 7 OF THE
MILLENNIUM
DEVELOPMENT GOALS,
EMPHASING THE NEED
FOR IMMEDIATE ACTION TO
CONTAIN RISING GREENHOUSE
GAS EMISSIONS TO MITIGATE
CLIMATE CHANGE**