Green Energy Center

ALTERNATIVE FUELS

ENACTUS City University of Seattle

&

ENACTUS Landivar University - Guatemala
Agenda

• CityU & Enactus
• GEC/Gabon & stove
• Enactus CityU and Landivar University
• Cooking habits in Guatemala
• Ecole
• Questions
- Non-profit & private
- Offers online and on-site programs nationally and globally
- National University affiliate

- A global non-profit social enterprise
- Students, academic, and business
- 36 countries in 1730 universities
- 4th place at Enactus National Exposition 2018
Green Energy Center Stove

- **Mission**: Improve health of developing nations and reduce carbon emission globally.
- **Benefits**:  
  - Low carbon emissions  
  - Uses readily available waste  
  - Uses 40% less fuel  
  - Produces biochar and power  
  - Safe to touch  
- Stove trial in **Gabon, Guatemala and Puerto Rico**

- **Production cost issue**
ENACTUS CityU & ENACTUS
Lanvidar University - Guatemala

- Guatemala store visit with introduction at ETHOS
- Landivar I University Guatemala at the Enactus World Cup in 10/2018
- Redesigning GEC stove and research alternative fuels
Cooking habit in Guatemala

- 57% total energy consumption from fuel wood
- 2.1 mil. Household use firewood
- 64% of population depends on wood
- 3rd highest country in the Central American using wood
- Severe health issues especially at children and women
Renewable fuels - Ecole

Eco Friendly

- Corns
- Coconut Shell
- Peppermint leaves
- Yucca glue
Renewable fuels - Ecole

Easy to use:

- Broken into small sections for convenient purposes
- Heats up more quickly than normal wood
- Last from 20-90 minutes
Easy to produce

Fuel production

- Crushed the corn leaf, coconut shell and the peppermint leaf.
- Prepare one unit of each material and pour it into a bowl with 6 units of water. Mix.
- Pour the mixture into the mold and compress the material.
- Leave the product inside the mold for 3 hours and then take out.
- Let it dry for around 7 days.
- Add the yucca glue to the outside of the product and let it dry for 7 days.
THANK YOU FOR YOUR ATTENTION!

ANY QUESTIONS?