



Observatoire Europe-Afrique 2030

Data-Sheet n°97

Enterprise : ANega Energies Manufacturing /Healthy Fire (Ethiopia)

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Degree of accuracy of the information contained in the data-sheet

Last update : 19th November 2025

1. Activity of the enterprise

Healthy Fire is a social enterprise. Its stove manufacturing facility seats on an 800 sqm space and has an installed capacity of producing 200 pellet household cookstoves, 20 institutional cookstoves, 150 charcoal cookstoves and at least 300 flat-packed wood stoves.

Business model

The business model for households is “Fan-forced Quayton Cookstoves + fuel pellets + biochar buyback wherein the enterprise sell stoves and pellets, and buy-back the biochar the stoves generate by giving the customer equal the mass of the charcoal that they return in new pellet fuel.

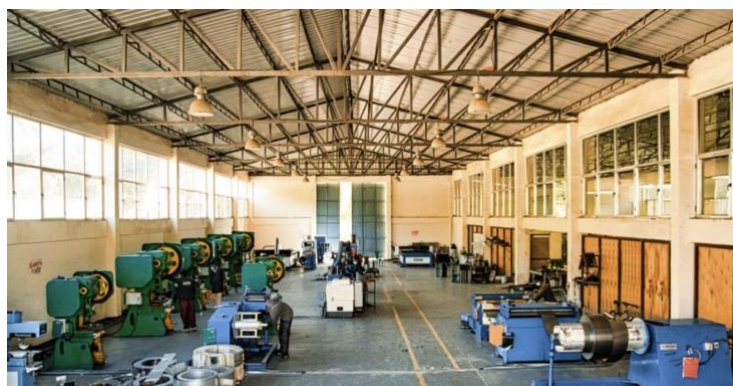
For each kilogram of pellet burned in our pellet stove, the customer harvests around 0.25 kg biochar. This not only cuts pellet cost by ~25% for the customer, the conversion of fuel pellets to biochar-based fertilizer helps to raise additional revenue while allowing the sequestration of carbon and reduction in nutrient leaching.

Manufacturing process

The entire manufacturing process is fully mechanical. It starts with decoiling the steel, straightening and cutting the sheet metal for the outer body in size. This is followed by stamping, rolling, seam welding, necking, and powder coating. A separate decoiling, straightening, and stamping process is followed to manufacture the inner tube. The combustion chamber is cut using a fiber laser machine, which also makes the primary and secondary air holes, which is then rolled and seam welded. Most of the other components of the stove are manufactured using our 6 stamping machines. Once the daily quota is reached, the stove components are sent to assembly line.

Detailed video of the manufacturing process :

<https://anegaenergiesmanufacturing.org>



2. Product Range

Healthy Fire proposes a range of Quayton cookstoves, from flat-packed woodstoves to lump charcoal cookstoves, all the way to commercial scale fan-forced institutional cookstoves.

The stoves reduce indoor air pollution by 95%, save fuel by 65% and avoid 6 tons CO₂/stove/year



QUAYTON INSTITUTIONAL STOVE

\$1.000,00



QUAYTON PELLET STOVE

\$99,99



QUAYTON CHARCOAL STOVE

\$57,99

3. Sources d'information

<https://anegaenergiesmanufacturing.org>

4. Contacts

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