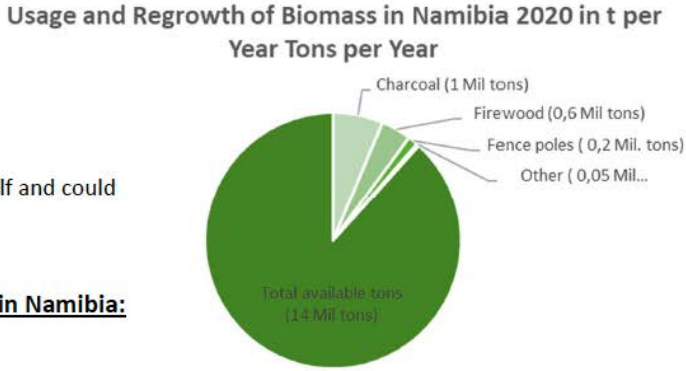
CASUS™ Namibian Hardwood Firewood

Namibian hardwood, the warmth of Africa

Advantages of Namibian hardwood:

- **Higher calorific value**
- **Higher** bulk **density**
- Maximum residual **moisture 8%**
- **FSC 100%** certified
- **Sustainable raw material**, grows back by itself and could be harvested again in about 25 years.



With the purchase of this product, you support in Namibia:

- the restoration of **biodiversity**
- the restoration of the **groundwater levels**
- the restoration of **area productivity** (carrying capacity)
- the restoration of **natural plants and grasses**
- the restoration of food for **game and livestock**
- restoring the natural **habitat of animals such as cheetahs**

The Situation:

Bush encroachment poses a major challenge in Namibia and is the most widespread form of land degradation. According to estimates, 45 million hectares are now overgrown with dense bush. This is a "growing" problem in the truest sense of the word.

The Solution:

To make degraded areas usable again, the bushes are deliberately thinned out. Bushes and shrubs can be selectively harvested and processed into various biomass products,
such as: firewood, firelighters, kindling and charcoal. With the aim of the economic utilization of biomass from the targeted clearing of bushes.

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Datasheet

Calorific value Analysis

On average, the European wood species deliver 4.23 kWh/kg and the Namibian wood species **5.53 kWh/kg**.
This indicates that Namibian wood provides on average **30% more energy** per kilogram.

Wood Type (Air-Dry)	Calorific Value (kWh/kg)	Calorific Value (MJ/kg)	Density (kg/dm^3)
Beech	4,2	15	0,74
Oak	4,2	15	0,69
Spruce	4,3	15,5	0,44
Sicklebush "Sekelbos" (lat.Dichostachys Cinerea)	**5,6**	**20,3**	**0,94**
Bluethorn "Geelhaak" (lat. Vachellia Erubescens)	**5,5**	**19,9**	**0,9**
Blackthorn "Swarthaak" (lat. Vachellia Mellifera)	**5,5**	**19,7**	**1,05**

Bulk Density

On average, Namibian wood has a raw density of **0.96 kg/dm**3 and a maximum residual moisture content of **8%** compared to 0.62 kg/dm3 and 18% of European wood species.

Advantages:

- **more energy stored** in a smaller area.
- **Less water** stored.
- **Better burning wood** for a longer burning time
- **more efficient heating** with less wood and effort

	Maximum Residual Moisture	Weight per Cubicmeterbox (kg)	Weight Water per Cubicmeterbox (kg)	Calorific Value per Cubicmeterbox (kWh)	2x Boxes = 1m2 Storagearea (kWh)
EU Wood	18%	450	81	1905	3810
Namibian Wood	**8%**	**450**	**36**	**2490**	**4980**

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