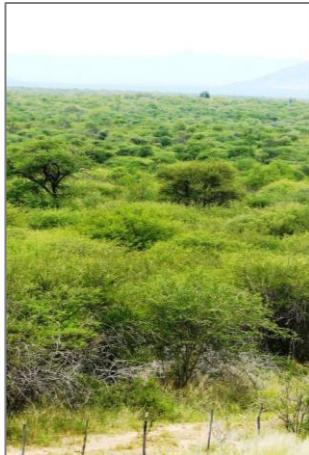


Bush Encroachment & “Bush-to-Electricity”



Decentralised Power Supply
Solutions in Namibia

Support to De-Bushing Project

Background

- Bush encroachment affects 30 million ha, reducing rangeland productivity by 2/3; impact on ground-water re-charge
- Minister: “BE can be considered a National Disaster”

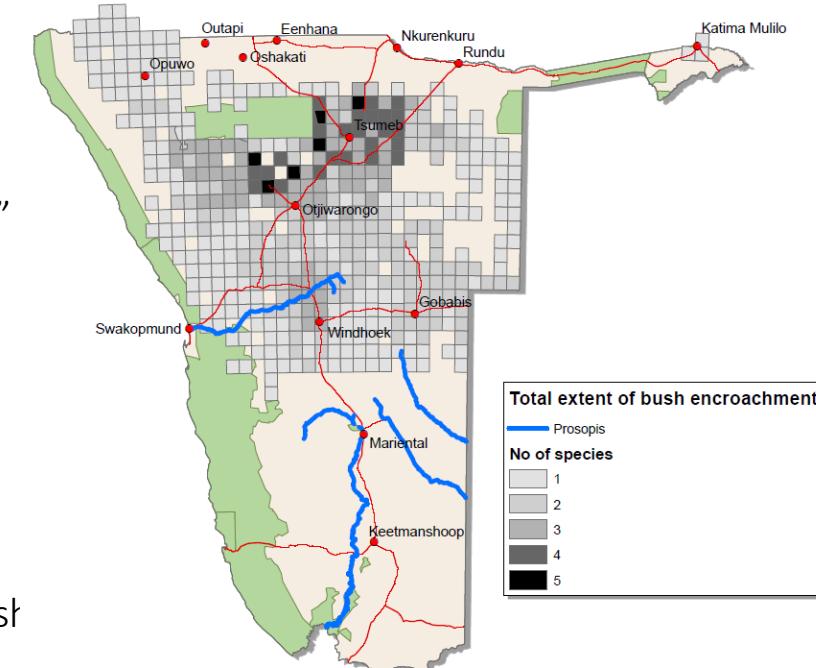
Project Objective

- ... to develop strategies to upscale de-bushing in Namibia

Value Addition Strategy

- ... electricity/power generation from encroacher bush the most obvious and immediate solution

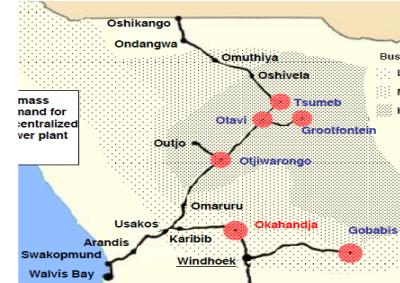
Total Extent of Bush Encroachment



Energy Supply Options

Off-grid / Mini-grid Power Supply Solutions

- Supply of „island solutions“ for industrial/SME parks or rural communities



Industrial Applications (boilers)

- Biomass boilers allow to substitute imported fossil fuel with local biomass



On-grid Power Generation

- Decentralised 5-20 MW biomass power plants; close to resource base and off-takers



Bush Encroachment – Scope



Biomass Value Addition Opportunities



Our Land, Our Voices



Bush-to-Electricity

Bush-to-Electricity – Sector Support

Address Fuel Supply Challenges

- Policy Environment
 - EIA framework; Macro-Economic valuation
- Institutional frameworks
 - Namibia Biomass Industry Group; Fuel Supply Agreement
- Technical supply solutions
 - Harvesting and logistics solutions



The giz logo consists of the lowercase letters "giz" in a bold, red, sans-serif font.



The KfW logo features the letters "KfW" in a bold, blue, sans-serif font.



Address Power Generation Challenges

- Viability / Feasibility of Power Plants
- Support to NamPower on Biomass Solutions



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Thank you!





Manual bush cutting and chipping



Selective bush harvesting



High value barbecue product

Charcoal

Value addition – Bush briquettes and chips