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| --- | --- | --- | --- | --- |
| * Mix harvesting on small to medium scale | * Biomass supply model (needed soon as possible) * Technology + skills development * Processing + harvesting equipment (that is cost efficient) * Challenge: economics * Buy-in from farmers (needed: fair compensation, more attractive than charcoal) |  | * Mix of problematic species * Smaller bush + branches * Inclusive (everybody chance to supply biomass) * Combi of long-term + flexible contracts * Certification: FSC (already experience) * Combi of central hubs + mobile chipping 🡪 SME’s | **Production and collection of biomass** |
| * No refinery or biorefinery existent yet * Trials: biofuel acids (wood vinegar) tested + well-developed | * Test feedstock characteristics (for mix of species) * Market + product research * Trials 🡪 small pilots | * Start with production on 1 location (Otjiwarongo, BiP site) | * Process + production done in Namibia * Product: dependent on market = core product * Open to foreign investment * Expand to more locations * Combine with existing value chains (e.g. charcoal) * Combine hub + decentralised units (portable units 🡪 use fuel directly on site) | **Biorefinery** |
| * No policy on biofuels * Management plan + harvesting permits policy in place | * Political will of policy makers needs to be created 🡪 good example is green hydrogen) 🡪 media attention * Policy alignment needed between different ministries * Waste management | * Defined policies in place * Infant company protection policy (government) | * Policies of MEFT, trade and energy are aligned * Biofuel mandate * Existing policies:   + EIA   + Harvesting permit | **Trade and policies** |
| * Basic infrastructure is in place | * Feedback: learning from trials | * Monitoring and evaluation * Price will make or break it | * Positive impact:   + Create jobs   + Income   + Restore rangeland   + Poverty alleviation * Possible negative impact:   + Loss of biodiversity   + Loss of habitat   + erosion | **Impact** |
| * Different definitions about communal areas (community forest, conservancies, communal land 🡪 what and about who are we talking when we speak of communal areas) | * Technology and skills development 🡪 responsibility of technology developers * Publicity + awareness raising needed (media) * N-BiG: steering role, first line of contact |  |  | **Roles and responsibilities** |