|  |  |  |  |
| --- | --- | --- | --- |
| **Feedstock**   * Mix of species 🡪 most problematic species/encroacher bush * Include the smaller bush + branches (currently not used by charcoal) | **Feedstock providers**   * Inclusive 🡪 everybody should have opportunity to provide biomass * Include conservancy + community forest * Different options to provide biomass * Example = charcoal (both small scale + larger scale options) | **Feedstock harvesting method**   * Mix of larger scale (high tech) + smaller scale (low-tech) * 1 hub with larger scale machines + mobile chippers 🡪 supply to multiple central points | **Feedstock processing (ownership)**   * SME’s take care of harvesting, chipping, transport |
| **Feedstock transport**   * SME’s take care of harvesting, chipping, transport * Train (from Grootfontein) * <100 km transport of wood chips | **Feedstock purchasing (contracts)**   * Combination of long term (+5 years) + flexible contracts (example NamPower) * Linked to harvesting contract 🡪 also linked to sustainability * Depending on biomass supplier * Supplier contracts (example: charcoal) | **Biohub products**   * Depending on market (market is staring point 🡪 1 core product) * Biofuel = core product * Biochar: apply to soil in North * Carbon credit? (look into) | **Biorefinery ownership**   * Open to foreign investment * Market = driver |
| **Biorefinery location**   * Hub 🡪 close to where biomass is * Otjwirarongo: pilot * Final step Walvis bay | **Policies**   * Existing policies: * Rangeland policy, forestry regulation in place * Need: more alignment with ministry of trade + energy policy | **Potential contribution of Biohub to local development needs**   * Important: all value addition parts (process + production) in Namibia * Maximum benefits in Namibia | **Development needed in region** |

**Main conclusions**

* Flexible model with different options to supply biomass, depending on biomass supplier
* Combination of central + decentral, high-tech + low-tech options
* Most important benefits: all steps need to be done in Namibia
* Market = driver, take 1 product (biofuel) as core product of the hub