



Tree Seed and Forest Nurseries management

The Norwegian Forestry Group develops and provides measures in plant production as a basis for forest restoration, afforestation and reforestation. Starting with selections arising from tree improvement programs, the establishment and management of successful seed orchards to get quality seeds as well as laboratory techniques required for vegetative propagation. We can assist in establishing and operating all kinds of tree nursery developments, from small family managed nurseries to industrialized production.

Through one of our partners, the Norwegian Forestry Society and its local entities, we have been involved in developing and running seed and plant production for more than 50 years. The Norwegian Forestry Society (NSF) is the main provider of improved, customized seed and planting materials in Norway.



Nursery operations. Norway

Objectives

- To contribute to the establishment of sustainable and efficient national and regional seed and plant production, as a resource for (biological conservation, carbon sequestration,) afforestation and reforestation of degraded forest land.

- Management of seed sources, collection and proper handling of seeds, improvement of seed sources to meet changing climates, rising demand for higher yields and other specific purposes according to local goals.
- Develop nursery guidelines and training facilitation for forest tree nurseries, in order to produce the quantity of quality seed requested to fulfil national and local plans.



New generation engaged in restoration of forests.

Participatory approach

It's important to engage all stakeholders. Direct target groups and final beneficiaries are involved in the development of projects. All activities must be adapted to local needs in a way that knowledge, attitudes and practices can be assessed and identified

Target Groups

Land users, farmers, foresters, tree growers, community development agents, professionals, NGO and civil society, environmentalists and nature conservationists.

Activities

- Assess current status of the seed and forest plant supply on national or regional level, including quantity and quality related to current demand or planned activities, in accordance with national or regional plans and strategies.
- Develop strategies for appropriate supply of quality seed and seedlings according to national goals and guidelines.
- Develop guidelines for seedling production in nurseries, including seed supply.
- Rehabilitation and development of existing nurseries, where this is possible, following careful evaluation of the status of the nurseries.
- Develop new, modern and efficient nurseries for seedling production, customized to achieve national or local plans and adapted to local policies, abilities and culture.



Green house production.

- Tree seed development and management through:
- Locating appropriate seed sources, establishing seed orchards for production of high quality tree seed. Establishing seed production units with facilities for seed extraction, cleaning and grading, drying, storage, germination, sampling for quality testing and seed source documentation.
- Facilitate training systems for appropriate subjects to ensure that new techniques, practices and routines are well integrated into the local organisation.



Small nursery in Gadan, Ethiopia.

Outcomes

- Establishment of sustainable and sufficient supply of high quality seed and forest plants to secure sustainable land use and improved rural development contributing to a green economy through:
- Long-term national strategies for sufficient supply of seed and forest tree seedlings according to national or regional strategies and plans.
- Guidelines for seedling production, including supply of high quality seed for a sustainable resource of planting material.
- Rehabilitated or established nurseries to secure sufficient supply of forest tree seedlings or vegetative propagation material for implementation of customized activities to regenerate degraded forest land, afforestation, etc. to secure a sustainable environment and to support rural development based on the forest resources.
- Established seed orchards, improvement of seed sources and propagation of planting material.
- Sustainable systems for training local staff on all levels to meet the quality standard
- The increase in tree planting contributes significantly to biological conservation, carbon sequestration, and direct benefits to society.
- A reduction in environmental degradation.

References

- Forest nursery development in Amhara Region. Introduction of nursery technology and development of new techniques for propagation.
- Tree Nursery and Reforestation Study - Kosovo Forestry Emergency and Rehabilitation Project Kosovo
- The Forest and Environment Sector Programme. Involving of private sector in management of natural resources. Kyrgyzstan
- Vocational training within the forestry- and environmental sector in Tajikistan.
- Land Degradation and Disaster Reduction in Gorno Badakshan Tajikistan
- Rural Development by Means of Vocational Training within the Forestry and Environmental Sector in Tajikistan - Phase 2 Tajikistan
- Evaluation of the support and appraisal of the continued support to the Sawlog Production Grant Scheme. Uganda
- Commercial Plantation Management, Peri-urban Plantation Project Uganda
- **See also www.nfg.no**

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