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Pilot project on briquetting in Tavush Region of Armenia

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FOREST LAW ENFORCEMENT AND GOVERNANCE II PROGRAM

The Program is funded by the European Union and implemented by the World Bank in partnership with WWF and IUCN





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Pilot project on sustainable use of forest resources

Developed in the frames of ENPI-FLEG 2

Aim: development of (wood) briquetting in Tavush Region of Armenia to make use of fuel-wood resources more efficient and reduce pressure on forest resources and land degradation caused by loggings for fuel-wood.

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Pilot project area

Location: Noyemberyan FE of “Hayantar” SNCO (Tavush Region, Northern Armenia).

Communities: Koghb, Dovegh and Berdavan.

Briquetting unit location: Koghb community.

Selected households: 15 (3 from each community) to be provided with special stoves to test and demonstrate the effectiveness of briquettes in comparison with wood.

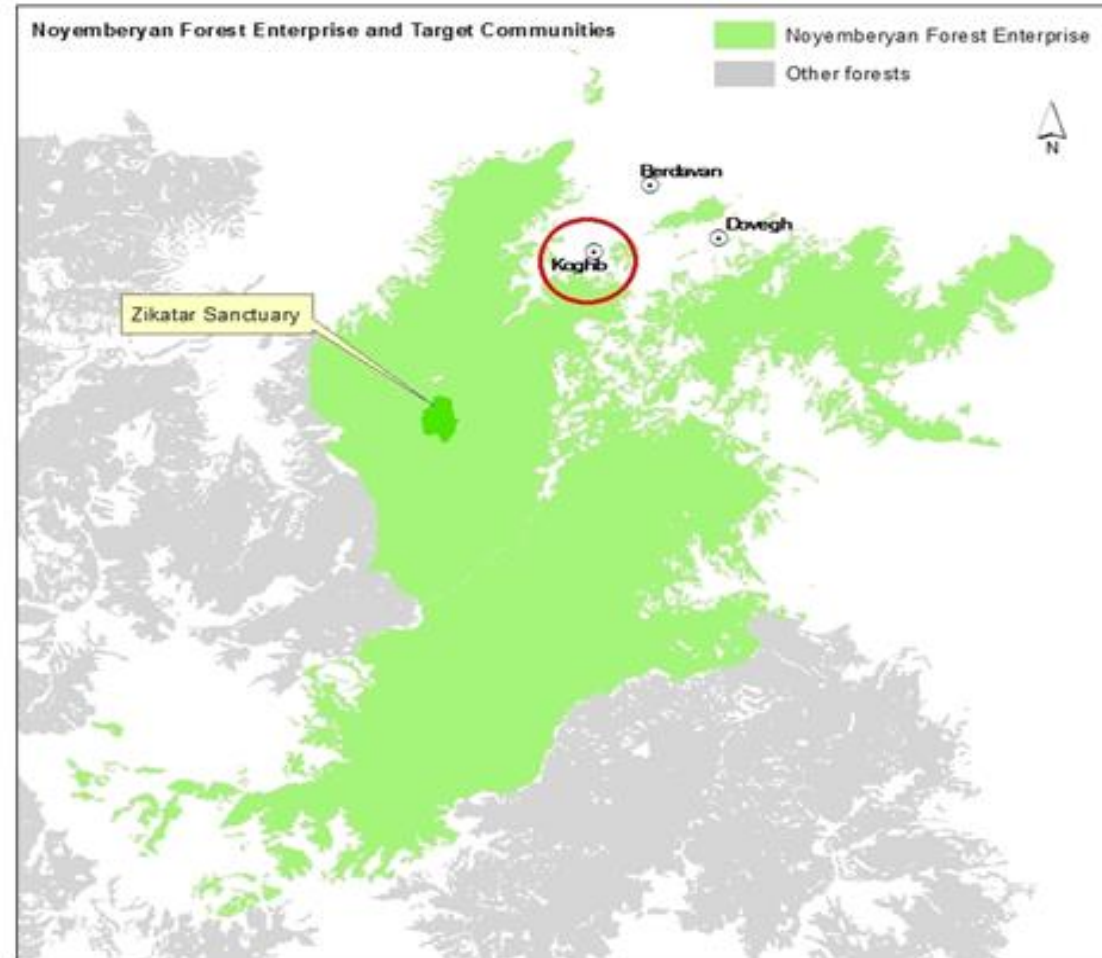
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Pilot project area





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Pilot project on briquetting in Tavush Region of Armenia

Development of business plan

Community consultations

Purchase of equipment

Functioning of the briquetting unit

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Business plan for briquetting

Feasibility to operate the briquetting unit

Calculations

Raw material for briquetting

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Business plan: raw material for briquetting

Residual waste wood from sanitary/maintenance activities
(annually 264 m³)

Wood sold by the forest enterprise (annually 616 m³)

Wood from households for production of briquettes free of
charge (annually 120 m³)

Straw/agricultural remnants (annually 528 tons)

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Use of wood as fuel by communities



Residual waste wood from maintenance activities



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Free of charge use of waste wood by forest adjacent communities

Decision N1535-N dated 27 October 2011 by the Government of the Republic of Armenia

Up to 8 m³ of free of charge waste wood per household for heating and cooking purposes

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Community consultations

Communities use fuelwood for heating and cooking as cannot afford high prices of gas and electricity.

In average about 70% of households use fuelwood (in some communities up to 90%).

In average, each household uses up to 15 m³ of fuelwood annually (trend: centralized boilers – up to 25 m³).

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Community consultations

No use of residual wood from maintenance/sanitary logging areas:

1. they are too far from communities.
2. low calorific value of residuals.

Conclusion: no restriction of communities access to fuelwood.

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Potential environmental impact of the pilot project

No impact on valuable forest areas (use of residual wood from maintenance/sanitary logging areas)

Reduction of forest degradation through shift from use of wood to agricultural raw material for heating and cooking

Conclusion: no negative environmental impact expected from the project implementation

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Pilot project implementation (ongoing activities)

Purchase of briquetting equipment and energy-efficient stoves

Selection of 15 households from 3 communities to be provided by the stoves (socially unsecured, use of wood stoves, use of 8m³ and others)

Selection of an entity to operate the briquetting unit (MoU between WWF-Armenia, “Hayantar” SNCO and the entity)

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Thank
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