Researches Concerning the Mountain Area Intentions of Cluj County to Use the Biofuel Heating

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SUMMARY

The results which are the object of the current study, are organized in two parties: The valuation of wooden deposits, for the four types of following means: wood of forested origin; wood of agrarian origin; wood industry related wastes; wood construction waste; the potentialities of development.

The number of individual boilers to wood chips that could ultimately be installed in the inhabitants of the area of the county of Cluj and corresponding consumption of wood were evaluated: first, from the modes of heating current inhabitants, defined by the results of the survey of the farming profession (134 people surveyed in 20 communes mountain); on the other hand, from hypotheses defined on the perspectives of replacement of heating appliances with wood or substitution of fossil energy and on the level of needs in energy of houses.

In comparison with the mode of heating in place and at the age the park of equipments, they kept following hypotheses: Replacement of 50 % of the park of hot water wood logs tanks of more than 15 years by wood-fired boilers shredded; replacement of 25 % of the park of hot water wood logs tanks from 10 to 15 years old by shredded wood-fired boilers; Installation of a shredded wood-fired boiler in return for a hot water fuel oil tank, for 10 % of the farmers using fuel oil as source of main energy; replacement of an apparatus with independent wood of more than 10 years (chimney, insert, cook or frying pan) by a shredded wood-fired boiler, for 10 % of the farmers using wood in exact change. In the field of the collective heating in wood in the habitat and service sector, it is necessary to differentiate two logic. The boiler rooms of medium size (of 150 kW in 1 MW); the boiler rooms of the upper potency in 1 MW.

There are two possible main shapes of plans: the installation of a wood boiler room devoted to the single establishment; the creation of a small communal network of warming system intended to serve the buildings of the group; they kept for families of buildings and electrical customer equipment: The collective accommodation in the social habitat; the health and social establishments (hospitals, private hospitals, psychiatric hospitals, units of care long length, nursing homes); the schools of the second degree (secondary schools and private and public secondary schools); the equipment of local authorities: nursery and primary schools, town halls, communal rooms, cultural and sports buildings.

REFERENCES
