Title: Investigations on possibility for using the tobacco stems to producing eco pellets

Autor: Hristo Bozukov**,**
Co-Autors: Yovcho Kochev and Maria Kasheva

Tobacco and Tobacco Products Institute, Plovdiv, BULGARIA

I.Abstract Body

The study presents the results of studies on the use of tobacco stems for ecopellet production. We describe their technology from stems to eco pellets. Compression technology was used without any adhesive, etc. supplements. The technological transformations of the products are shown in Image.

The bulk density of the resulting chips is 130 kg / m3, of the pellets 640 kg / m3, which is within the standards of the standard.

Tobacco stem ecopellets in calorific value (3062 kcal / kg) are close to briquettes and brown coals (3500 kcal / kg) and significantly exceed wood (2500 kcal / kg). Expressed in electrical equivalent, the combustion of 1 kg of tobacco stem ecopellets equals 3.6 kW of electricity. The data is from certificate 184001-S010320-0242 / A1 of SGS Bulgaria. The results show that this is an opportunity to produce eco pellets and their net calorific value.

II.Image

Technological transformations from stems to ecopellets

Raw material source	After drying	Chips	Ecopellets
 			

III.Biography

Hristo Bozukov has a PhD from the University of Agriculture in Plovdiv. He has been working at the Tobacco and Tobacco Products Institute (TTPI) since 1984. In January 2002 he was appointed Head of Department "Agrotechnics and plant protection" and in March the same year he was elected member of the Scientific Council at the TTPI. In January 2006 he was promoted to Deputy-Director of TTPI and since August 2009 he

has been at the position of Director of TTPI. From 2013 to 2015, Prof. Bozukov is the President of the Agricultural Academy of Bulgaria. Hristo Bozukov has published over 110 scientific, applied science articles and reports, six guidelines, manuals and methodical handbooks. His scientific works have been cited more than 90 times, of which 46 times by foreign authors. He has three certificates for innovations and three research works implemented in practice.

IV. Research interest:

Plant protection, Biotechnologies, Bioenergy

V.Presenting author details



Full Name: Hristo Georgiev Bozukov
e-mail: h_bozukov@abv.bg