

Abstract for poster presentation

Prototype of a concentrated solar heat energy unit

Mihály Varga¹, Gábor Németh², Szabolcs Németh³, Ferenc Divos⁴,

70 plane glass mirrors are focusing the sun light to an absorber surface. The collected energy is transported through pipeline to a barrel filled with water. The capacity of the prototype unit is 5 kW. The system follows the sun by a processor controlled moving mechanism. The applied silver coated glass mirrors provided the best energy output comparing to aluminum and steel metal mirrors. The poster shows the mirror development process and the prototype unit. Final goal of the concentrated solar energy unit is a kiln dry heating.

¹ Mihály Varga, Institute of wood Machining, University of West Hungary,

² Gábor Németh, Institute of wood Machining, University of West Hungary,

³ Szabolcs Németh, 3B company, Zalaegerszeg

⁴ Ferenc Divos, Jozsef Bodig Wood NDT Laboratory, University of West Hungary, divos@fmk.nyme.hu