Mobilizing biomass feedstocks for advanced biofuels production

Tomislav Tori, Sergii Chabannyi, Klaus Holzinger

Green Biomass Energy, Trg Republike 3, Ljubljana, Slovenia

Abstract:

Revitalization of marginal agriculture soils presents one of the main challenges of the Croatian and East European agriculture. One of the possible solutions for increasing biomass and bioenergy production could be the wide introduction of multiannual energy crop Miscanthus x giganteus in intensive agricultural cultivation. Miscanthus x giganteus is characterized by its ability to grow in different agroecological conditions, because the plant has low requirements during the growing and high yield production of lignocellulosic biomass. The main characteristics of grass Miscanthus x giganteus are: the possibility of growing on soils of lower quality, high resistance to various pests and diseases (no pesticide treatments), natural sterile hybrid (there is no risk for uncontrolled spreading in environment), small requirements for fertilizer, but high energy value (from

~~Biography:~~

~~Mr. Siddalinga Nuchhi has completed his M.Tech in Power System Engineering at the age of 24 years from VTU, Balagavi, Karnatak, India~~

Recent Publications:

1. Blackshaw R.E., Moyer J.R., Doram, R.C., Boswell A.L. (2001). Yellow sweetclover, green manure, and its residues effectively suppress weeds during fallow. Weed Science 49 (3): 406–413.

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3: Haramoto E.R., Gallandt E.R. (2004). Brassica cover cropping for weed management: A review. Renewable Agriculture and Food Systems 19 (4): 187–198.

4: Hoffman M.L., Regnier E.E. (2005). Contribution to Weed Sup presion from Cover Crops. In: Sustainable Weed Management (Singh H.S., Batish D.R., Kohli R.K., eds.). pp 51-75.

5: Hoffman M.L., Regnier E.E., Cardina J. (1993). Weed and corn (Zea mays) responsees to a hairy vetch (Vicia villosa) cover crop. Weed Technology 7: 594-599.

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