

Title (en)

SYSTEM OF COMBINED TECHNOLOGIES FOR PRODUCING AND USING RENEWABLE ENERGY

Title (de)

DAS SYSTEM VON KOMBINIERTEN TECHNOLOGIEN ZUR PRODUKTION UND NUTZUNG ERNEUERBARER ENERGIEN

Title (fr)

SYSTÈME DE TECHNOLOGIES COMBINÉES POUR LA PRODUCTION ET L'UTILISATION D'ÉNERGIES RENOUVELABLES

Publication

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Application

**EP 15730547 A 20150506**

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- PL 2015000076 W 20150506

Abstract (en)

[origin: WO2015171000A1] The invention relates to a system of combined technologies for generating and using renewable energy. Renewable energy is produced in a closed system, said system comprising: the algae cultivation plant (D) where biomass is obtained from algae; the oil press plant (I) where oil and proteins are obtained from biomass; the bio fuel processing station (J) where bio diesel is obtained from oil; a feed mill (K) in which animal feed is obtained from proteins; the tank for biomass from agricultural commodities (L), in which the residue from the feed-, oil production and the agricultural materials are stored; the biogas plant (A) in which biogas and fermentations are obtained from biomass; and the separator (E), where the fluid fraction and the solid matter fraction are obtained from fermentations, said fluid fraction being directed as a medium to the algae cultivation station (D). The system also includes: the pellet/fertiliser mill (F), where pellets or fertiliser are obtained from the solid matter fraction; and the co-generation station (B) where electrical energy, heat and waste gases are obtained from biogas. The heat energy is distributed for use by the pellet/fertiliser mill (F) and the algae cultivation plant (D). The waste gases are directed into the algae cultivation plant (D) and the transformer-distribution station (C), where the electrical energy is designated for use by the pellet/fertiliser mill (F), the external network (M) and the algae cultivation plant.

IPC 8 full level

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