Monitoring and control system for wastewater irrigated energy plantations

From 2004-10-01 to 2006-12-31

Objective

A main objective of the European Commissions energy policy is to raise the amount of renewable energies from currently about 6% up to 12% from total energy generation until 2010. Therefore a huge potential is seen in the application of biomass, which is competitive, storable, CO2-neutral and in connection with wastewater an extreme low-cost fuel for heat and power generation.

The current main biomass sources like forest-wood, recycle-wood and biogas can not meet the future demand for heat and power generation in Europe. Therefore, it is necessary to develop high efficient and low-cost biomass production systems. Wastewater irrigated Short Rotation Plantations (SRP) can contribute to meet these requirements because they use the advantages of communal wastewater as a source for cheap fertilisation and irrigation for the cultivation of fast growing combustible energy crops (e.g. willows, poplars).

Related information

- **Result In Brief**: Synergy of wastewater and biomass technologies
- **Report Summaries**: Final Report Summary - WACOSYS (Monitoring and control system for wastewater irrigated energy plantations)
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