

Two years of PV-Hybrid Systems on the isle of Kythnos – a socio-technical analysis

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After one year of installation of the two PV Hybrid systems financed by the European Commission (FINANZUERUNGSNUMMER?[1]) a follow-up and a socio-technical evaluation will take place in Mai 2002. The methodologies for data collection are twofold: on the one hand technical data are taken and on the other hand social data (like satisfaction with the system, performance of payment, further energy needs and future demands, etc.) are collected. The data collection and the data analysis are discussed with end users and they are used as the basis for continuous lessons to learn as well as for the sustainable use of the system.

In the joint analysis three phases could be detected and will be described in detail in the presentation: Construction Phase, Optimisation Phase and Sustainable Use. The process in the island of Kythnos will be analysed and it will be shown in how far these phases are important of the whole process of sustainable energy introduction [see also 1]. It is still a new factor to use technical and social expertise and knowledge to run a PV-Hybrid System sustainable.

In the conclusion general principles will be presented of how to install such PV Hybrid Systems and what makes the modular system technology so successful.

[1] Schweizer-Ries, P., Casper, C., Djuwita, R., Ramirez, E. & Hidalgo de Ávila, E. (2002). Social Interventions to Achieve Success with Off-Grid Village Power Supply Systems: Case Studies from Indonesia, Spain and Argentina. *Proceedings of the 17th European Photovoltaic Solar Energy Conference and Exhibition*, 17, 1951-1955.