

APOLLON WP 3 - Nicosia, 17 Oct. 2008



Die Energie der Zukunft

Work Package 3 – Task List & Partners



	Optics and modules (systems)
WP 3	Development of Point focus systems (PFS)
WP 3.1	<i>Optimisation of existing technologies for Point Focus system</i>
	Task 3.1.1 Fabrication of 3 point focus modules with the starting technology (Solare*Tec)
	Task 3.1.2-Development of secondary optics to increase the acceptance angle of Fresnel and Hybrid lenses (SE SRTIIE)
	Task 3.1.3 Optimisation of Fresnel lens to increase optical efficiency (SolarTec)
	Task 3.1.4 Optimisation of small area prismatic lens and parquet to increase optical efficiency (ENEA, CRP)
	Task 3.1.5 High-throughput assembling optimisation (cell positioning, wire connections, sealing process, encapsulation material, replacement of metal heat sink) (SolarTec, SE SRTIIE)
	Task 3.1.6 Realisation of optimised Point focus receivers (Solar*Tec, SEST TIII)
	Task 3.1.7 Realisation of optimised Point focus modules (Solar*Tec)
	Task 3.1.8 Development and adaptation of a reliable and accurate tracking for Point focus systems (Solar*Tec, Robotiker)
	Task 3.1.9 Fabrication of a 1.5 kW Point Focus prototype system (SolarTec)

M08 ★
Month 12

★
M03
Month 06

M22 ★
Month 24

Workpackage 3.2



WP.3.2	<i>Development of Second generation Point Focus Systems</i>
	Task 3.2.1 Development of wide acceptance angle, low F/#, cell self-protecting optic (CRP)
	Task 3.2.2 Development of light plastic housing (ENEA)
	Task 3.2.3 Development of intelligent module (module integrated intelligent sensor and MPPT device) (CESI RICERCA, CRP, ENEA, Robitiker)
	Task 3.2.4 Optimised assembling techniques based on “chip on board” and "chip on flex" technology with high thermal dissipation (CRP, SE SRTIIE)
	Task 3.2.5 Realisation of second generation receiver for point focus modules (CRP)
	Task 3.2.6 Realisation of of second generation point focus modules (Solar*Tec)

Work starts After 1st year



Solar Tec AG

Engineering the Solar Future

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