

THE UNIVERSITY OF NEW SOUTH WALES • SYDNEY • AUSTRALIA CEEM Seminar, 23/11/07







Centre for Energy and Environmental Markets



PVES - Technology viability issues		
Dimension	Weaknesses & Opportunities	
Institutional (orgware)	Areas of weakness: Institutional infrastructure; performance monitoring; local capable agents Opportunities: Improved technology transfer; capacity building; best practice guidelines; capacity building, education & training	
Financial (orgware)	Areas of weakness: hardware first cost barriers; financial sustainability; income- generating activities; maintenance costs; planning for refurbishment & replacement; decentralised & scattered market <i>Opportunities:</i> avoided expenditure on T&D & fuel; business skill development; micro-finance; smart subsidies	
Hardware & software	Areas of weakness: hardware reliability, maintainability & operating life; software skills for end-users <i>Opportunities:</i> Modularity & rapid deployment; installation & maintenance services, system warranties; user education & networking	
Social (orgware)	Areas of weakness: centralised, technocratic approach; equity & cultural issues Opportunities: job creation; education & health services; energy security; social inclusion & autonomy; income generation; provision of multiple services	
Environmental (orgware)	Areas of weakness: waste management; life-cycle assessment Opportunities: reduction in direct & indirect environmental impacts	
Enhancing the sustainability of off-grid PV energy service delivery in Indonesia 3		





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Availability: Assure Con	tinuity
K-P-D-A-C Continuum	
Prior Condition Knowledge Decision Adoption	
Case Study 1 Case Study 2 Case Study 2 T1 + T2; Availability & Acceptability domains; PVES technical lifetime.	
T1: Conditional Acceptance Stage PVES project life: Implementation domain, Users decide to adopt PVES, Sales, installation, limited quarantee. PVES project completion QUES project completion Beyond PVES project life: After Sales Service, Operation & Maintenance PVES Acculturation: Users confirm PVES benefits & able to continue to innovate constructively after PVES project completion	
Point prone to Discontinuation	HARD THE REAL PROPERTY OF
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