

3.6 Technology Action Plans for the selected technologies

Based on the above barrier analyses the attempt was made to develop more concrete measures that would support the deployment and dissemination of selected technologies. Efficient construction technology can be considered a medium term technology since its implementation and wide application will require a broad range of education and capacity building, development of primary and secondary legislation and development of various institutions and business entities.

Tables 2.3 below summarize

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Table 2.3 - TAP for SWHs

Measure	Priority	Objective	Implementing agency	How should they do it?	Time scale	Monitoring, reporting and verification	Estimated costs
1	2	3	4	5	6	7	8
Stakeholder Network							
Arrange networking and coordination between Donors, NGOs	2	Improve the quality and effect of Donor projects	Donors & NGOs & State Agency	Arrange consultation process in Donor project development	1 year	meeting minutes and joint documents	No cost
Network vendors and NGOs with R&D for awareness and service quality improvement	2	Improve awareness and service quality of sellers & installers	Donors & State agencies	Initiate free consulting service	1-2 years	guiding material, workshops, consultations	\$20K
Arrange consumer networking and information exchange	2	Facilitate information spreading and market activity	NGO project	websites and forums	1 year	number of posts, participants, user activity	\$10K
Policies and Measures							
Develop and disseminate technology information, conduct promotion campaign	1	Increase awareness with policymakers and public	R & D centers	Develop information material and plan the campaign	1 year	Audience reached by coverage	\$50K
Develop state strategy for EE and RE use	1	Create supportive environment for SWH business development	State with donor TA	Targeted project with participation of stakeholders and wide publicity	1-2 years	State strategy adopted	\$100K
Develop and adopt RE Law	2	Create supportive environment for SWH business development	Donors & State agencies	Through participatory law drafting and lobbying program	1-2 years	Law adopted	\$100
Energy planning, proper energy pricing and accounting for externalities	1	Develop a meaningful policy in RE	Donor funded TA project	In conjunction with RE strategy	1-3 years	Energy plans with account of RE & EE, proper tariff setting for renewable and fossil fuels	\$150K
Establish R & D centers including hardware, personnel and programs	1	Assure expert support to vendors, consumers, develop cost benefit analyses	State, Educational & research institutions	Technology Centers (Techno-Parks)	2 years	Technology reviews, feasibility analyses, equipment testing and classification, guidebooks and training courses	\$200K

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Develop tax breaks with phase out	2	Stimulate the dissemination	State	Amend tax legislation	1-5 years	amount of tax breaks and effect on technology penetration	TBD
Organizational & Behavioral change							
EE & RE State agency	1	Coordinate implementation of RE strategy and action plans	State with donor TA	Through innovation system support programs	2 years	Agency endorsed by parliament/government	
Establish Effective Technology Centers	1	Support technological development	State with donor TA	Through innovation system support programs	1-3 years	Industry/business support programs, research activities deployment and technology adaptation activities	TBD
Market, system support, financial services							
Cheap loans & Revolving funds	1	Support market penetration of SWHs	Donors	Special credit lines and revolving funds	1-3 years	amount of subsidies	TBD
Grants & Tax breaks	2	Make technology more affordable	Government & Donors	To reduce tax payments either through providing subsidies or through temporary reduction in tax payments	2-3 years	amount of tax breaks	TBD
Cheap financing schemes	1	Enable dissemination of technology through market support	Donor funded RE financing mechanisms	Revolving funds, special credit lines	1-3 years	Number and amount of issued loans and subsidies	\$500K
Skills training & Education							
Guide books & other training material	1	Train and inform vendors	Techno Centers, specialist NGOs	Under state and donor programs	1-3 years	available material	\$20K
Educate vendors	1	Increased quality of service and provide incentives for "smart" decisions	Techno Centers, specialist NGOs	Under state and donor programs	1-3 years	training courses, consultation programs	\$40K

The expense figures are rough cost estimates to be made more precise at the stage of more detailed task planning