

c) Finalizing national strategy

Based on priority technology action plans in the subsectors, a national strategy and action plan for the biogas development targets are presented in Table .

Table 51 - National Strategy

(technology transfer and development for mitigation)

	0-5 years	5-10 years	10-15 years
Commercially available technologies (short-term)			
Biogas			
Review, restructure and strengthen existing agricultural incentives	X		
Assign technology focal points	X		
Develop mechanisms to support R&D of biogas technology and implement pilot projects	X		
Create loan and tax incentives	X		
Review and assess policies	X	X	
Enhance management capacity of agricultural facilitating authorities	X	X	
Build capacity for technology experts	X		
Formulate coordination mechanisms between stakeholders	X	X	
Develop concessional loan mechanisms for farmers	X	X	X
Create funds for training and education	X	X	
International cooperation in development and transfer of biogas technology	X	X	X

2.4.1.2. Brief summary of project ideas for international support (details in Annex 4)

2.4.2. Wet and dry irrigation in certain rice growth stages

2.4.2.1. Technology action plan

a) Aggregation and rationalization of measures identified for technology acceleration

Similar to the above section, the list of measures identified for formulation of a national strategy to accelerate the development and transfer of technologies can be seen in

Table .

Table 52 - Aggregation for strategy formulation

Strategic measure	Accelerating innovation RD&D	Accelerating deployment	Accelerating diffusion
Creation of Network			

Strengthen existing agricultural incentives for technology transfer	X	X	X
Assign technology focal points	X	X	X
Policies and measures			
Develop support policies, demonstrate and implement pilot projects	X	X	X
Make policies to support construction of field drainage structures	X	X	X
Review and assess existing policies	X	XX	XX
Organization/behavioral change			
Enhance management capacity of agricultural authorities	X	X	X
Provide financial support and build capacity for technology experts	X	X	XX
Formulate coordination mechanisms between agricultural authorities, farmers and research institutions	X	XX	XX
Market support actions			
Develop concessional loan mechanisms for local people	X	XX	XX
Skills training and education			
Create funds for training and education	X	XX	XX
International cooperation and IPR			
International cooperation in development and transfer of the technology	X	XX	XX

*Note: see Note under Table .

b) Prioritization and characterization of technology acceleration measures for a national plan

Similar to the above sections, the list of measures identified for the acceleration of technologies and the innovation stage structured under the core elements of a national strategy are identified and aggregated in Table below.

Table 53 - Prioritization and characterization of technology acceleration measures for a national plan

Sector: Agriculture							
Specific Technology and category: Wet and dry irrigation/Short- and medium-term, medium scale							
Innovation stage: Deployment – Diffusion							
Measure (grouped under core elements)	Pri- ority	Why is it important?	Who should do it?	How should they do it?	Time- scale	Monitoring, reporting and verification for measure	Estimated costs (1,000 USD)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Creation of networks							
Review, restructure and strengthen existing agricultural incentives	1	Helps to rationalize and promote the role and activities of organizations which have been or can be engaged in the network	MARD	Restructure towards deep-root structure, identify advantages and barriers to form a basis for strengthening the existing system.	2 years	MARD	25
Assign technology focal points	2	Helps to direct and uniformly instruct the technology innovation	MARD	Establish a central committee and a network of local representatives	2 years	MARD	25
Policies and Measures							
Develop mechanisms to support R&D of the technology and implement pilot projects	1	Helps to create tools to encourage organizations and individuals to research, develop and apply technologies	MARD	Formulate support policies to meet the demand for new technologies, create technology development budget	3 years	MARD, MOST	15
Create loan and tax incentives	2	Helps to find solutions to overcome financial barriers to encourage stakeholders to apply technologies	MARD	Develop and enforce tax incentives to accelerate technology diffusion	2 years	MOF	5

		in production activities.					
Review and assess policies	3	Helps to increase effectiveness of existing policies and align them to current conditions	MARD	Review and assess effectiveness and disadvantages of existing policies	5 years	MARD	15
Organizational/behavioral change							
Enhance management capacity of agricultural facilitating authorities	1	Maximize the potential of organizations and minimize the disadvantage of limitations in management	MARD in coordination with related agencies	Organize management skills training courses, draw lessons, create operating procedures and measures	2 years	MARD	50
Build capacity for technology experts	1	To encourage the involvement of technical experts and ensure work efficiency	Institutes, departments and organizations	Identify information and training needs, develop plans and organize training course4s for technicians.	1 years	MARD	25
Formulate coordination mechanisms between stakeholders	3	There is a need for close coordination between managers, scientists and farmers	MARD	Consult with stakeholders to formulate a feasible mechanism	5 years	MARD	2.5
Market support actions							
Develop concessional loan mechanisms for farmers	2	To make budget and facilitate technology development and diffusion	State Bank, MARD	Develop loan policies through Agricultural Bank (AgriBank)	2 years	MOF	250
Market support actions							
Create funds for training and education	3	To make a fixed and constant budget for research and human resources development	MARD	Mobilize resources from international partners	5 years	MARD, MOST	5

International cooperation and IPR							
International cooperation in development and transfer of the technology	3	To learn and enhance understanding and knowledge of the technology	MARD	Organize study tours or research groups Exchange materials and information on technology	5 years	MARD	5

* Note:

(1): See Note under Table .

c) Finalizing national strategy

Based on priority technology action plans in the subsectors, a national strategy and action plan for the technology development targets are presented in Table .

Table 54 - National Strategy

(technology transfer and development for mitigation)

	0-5 years	5-10 years	10-15 years
Commercially available technologies (short-term)			
Wet and dry irrigation in certain growth stages			
Review, restructure and strengthen existing agricultural incentives	X		
Assign technology focal points	X		
Develop mechanisms to support R&D of the technology and implement pilot projects	X		
Create loan and tax incentives	X		
Review and assess policies	X	X	
Enhance management capacity of agricultural facilitating authorities	X	X	
Build capacity for technology experts	X		
Formulate coordination mechanisms between stakeholders	X	X	
Develop concessional loan mechanisms for farmers	X	X	X
Create funds for training and education	X	X	
International cooperation in development and transfer of the technology	X	X	X

2.4.2.2. Brief summary of project ideas for international support (details in Annex 4)

2.4.3. Nutrition enhancement in dairy cattle

2.4.3.1. Technology action plan

a) Aggregation and rationalization of measures identified for technology acceleration

Similar to the above section, the list of measures identified for formulation of a national strategy to accelerate the development and transfer of technologies can be seen in

Table .

Table 55 - Aggregation for strategy formulation

Strategic measure	Accelerating innovation RD&D	Accelerating deployment	Accelerating diffusion
Creation of Network			