Result of Feedback Survey

• The Participants

Stakeholders were separated into 3 groups: government, private sector, and citizen/public. The government group includes government officers and state enterprise officers who joined seminars. The private sector group includes business operators/factories from seminars and direct mail. The citizen/public group includes the general public, those from public health and academic organizations, NGOs/CSOs, the media, and others that joined seminars.

Group	number	%	agency	number	%
Government	77 31.95	31.95%	Government office	71	29.46%
		0110070	State enterprise officer	6	2.49%
Private sector	120	49.79%	Private sector - seminar 50 - direct mail 70	120	49.79%
	44 18		General public Public health and	8	3.32%
		18.26%	hospital	10	4.15%
Citizen/Public			Academic organization	16	6.64%
			NGO/CSO	7	2.90%
			Media/journal	1	0.41%
			Other	2	0.83%
Total	241	100%		241	100%

Summary of Stakeholders

• Questionnaire Feedback Survey Results

The questionnaire survey of the PRTR pilot implementation consisted of 11 main question areas as follows:

- 1) Objectives of the PRTR system
- 2) Target substances
- 3) Point source definitions
- 4) Non-point source coverage
- 5) Estimation methods and work
- 6) Reporting systems
- 7) Data disclosure
- 8) Risk communication meetings
- 9) Audit & review
- 10) Implementation mechanism
- 11) Outputs (Evaluation of the project)

The first question regarding the objectives of the PRTR system received varied responses from each stakeholder. Four choices were provided to prioritize the objectives, as follows:

- To collect scientific emission/transfer data for policy making.
- To ensure the people's right to know.
- To promote voluntary reduction effort by industry.
- To provide common information platform for constructive dialogue among the stakeholders.

The first three choices are the common objectives usually defined in the PRTR system elsewhere, while the last choice was prepared to meet the situation of areas like Map Ta Phut. The results are shown below.

	Government	Private sector	Citizen/ Public
To collect scientific emission/transfer data for policy making.	1	3	2
To ensure the people's right to know.	3	4	4
To promote voluntary reduction effort by industry.	4	2	1
To provide common information platform for constructive dialogue among the stakeholders.	2	1	3

As expected, the government likes to collect the data for policy making. The private sector group places highest importance in the last choice, demonstrating the need for a platform for better relations with communities. In turn, this can be a basic incentive for the private sector to continue PRTR. Interestingly, the citizen group considers voluntary reduction as the highest priority, while the right to know choice is the lowest.

The results of major design parameters for 2) to 10) are as follows.

	Agree/Yes				
Topics	Covernment	Private	Citizen/		
	Government	sector	Public	All	
Target substance					
Do you agree with the current criteria of target	98.7%	99.2%	97.7%	98.7%	
substance selection?					
Do you suggest to add/remove substance(s)?	93.5%	91.7%	97.7%	93.4%	
Point source definition					
Do you agree with method of the current definition of point source?	83.1%	91.6%	88.4%	88.3%	
Do you agree with industry category under DIW code that covered in point source?	90.9%	92.5%	72.1%	88.3%	
Do you agree with industry size criteria? (Type 3: over 50 employee or over 50HP)	96.1%	94.1%	90.5%	94.1%	
Do you agree with the amount of chemical handled criteria? (1 ton/year)	90.9%	87.5%	86.1%	88.3%	
Do you agree with the amount of chemical handled criteria (1 ton/year) for every source?	75.3%	80.7%	78.6%	78.6%	
Do you agree with industry category under DIW code (7 industry sectors) for PRTR pilot project?	85.3%	88.2%	93.0%	88.2%	
Non-point source coverage					
Do you agree with the non-point source to be covered by PRTR pilot project?	76.1%	80.8%	80.7%	80.0%	
Do you agree with the target substance to be covered by the non-point source in PRTR pilot project?	85.9%	93.9%	100%	92.2%	
Estimation method and work					
Do you agree with estimation manual prepared by PCD, DIW or IEAT?	78.6%	78.1%	75.0%	78.0%	
Reporting system					
Do you agree with reporting format in PRTR pilot project?	91.0%	91.2%	88.9%	90.9%	
Do you agree with reporting flow in PRTR pilot project?	89.6%	94.7%	96.3%	93.2%	

All stakeholders agreed on most of current PRTR design principles and criteria, regardless of their background, except for suggestions to add/remove target substances. For data disclosure and risk communication, replies were obtained on a 5 scale from 5 (very good), 4 (good), 3(moderate), 2 (less than moderate), to 1 (bad). The results are shown in next table.

	Satisfaction (Average)			
Topics	Government	Private sector	Citizen/ Public	All
1) Data disclosure				
Is Data book well organized?	3.77	3.36	3.77	3.54
Is Data book easy to understand?	3.49	3.35	3.55	3.42
Does Data book contain necessary	4.10	3.67	4.27	3.89
information? 2) Risk communication meeting				
Was risk communication meeting well				
organized?	4.06	3.45	4.00	3.72
Was risk communication meeting helpful to understand PRTR data?	4.09	3.58	4.29	3.85
Does risk communication meeting contain necessary discussion?	4.29	3.79	4.33	4.02
		Agree	Yes	
Topics	Government	Private sector	Citizen/ Public	All
3) Audit & review				
In the current plan, point sources will be audited to confirm the appropriateness of the estimation and reporting. Do you agree with this plan?	97.4%	99.2%	100%	98.7%
In the current plan, all PRTR system will be reviewed periodically to update substance list, point and non-point source, estimation method and data disclosure. Do you agree with this plan?	100.0%	98.3%	97.7%	98.7%
4) Implementation mechanism				
Should PRTR be regulated by law?	90.91%	69.75%	95.35%	81.17%
Which agency shall take lead in PRTR?	1. PCD	1. PCD	1.PCD	1. PCD
1. Pollution Control Department (PCD)	2. DIW	2. DIW	2.IEAT	2. DIW
 Department of Industrial works (DIW) Industrial Estate Authority of Thailand (IEAT) Others 	3. All agency	3. All	3.All	3. All
What is the important capacity of the leading	1.Authority	1.chemical	1. Authority	1. Authority
agency?		management		
1. Authority as regulator	2.pollution	2.coordination	2. coordination	2. coordination
2. Experience/capacity of interagency coordination.	management			
3. Experience/knowledge of chemical management	3. coordination	3. Authority	3.chemical	3.chemical
4. Experience/knowledge of pollution management at			management	management
local level				
5. Others				

What s	should be the role of local authority?	1. Education	1.Education	1. Education	1. Education	
1.	Awareness raising/education	2. Risk com.	2. Estimation	2.Risk com.	2. Risk com.	
2.	Report collection	3.Report collection	3. Risk com.	3.all choices	3.Estimation	
3.	Non-point source estimation					
4.	Risk communication					
5.	Others					
		Agree/Yes				
	Topics	Government	Private	Citizen/	All	
		Government	sector	Public		
Who s	hould lead the role in local scene?	1. PONRE	1. PONRE	1. PONRE	1. PONRE	
In wha	t area?	2. PIO	2. PIO	2. PIO	2. PIO	
1.	Municipality	3.Municipality	3.Munici	3.Munici	3.Munici	
2.	Provincial Office of Natural Resources		-pality	-pality	-pality	
	and Environment (PONRE)					
3.	Provincial Industry Office (PIO)					
4.	Regional Environmental Office (REO)					
5.	Provincial Office of Public Health					
	(POPH)					
	Provincial Office of Education (POEd)					
7.	1					
	agency should lead the role in non-point	1.Other	1.Other	1.Other	1.Other	
	estimation such as agriculture,	2.PCD	2.PCD	2.PCD	2.PCD	
	nold and mobile source?	3.IEAT	3.DIW	3.DIW	3.DIW	
	Pollution Control Department (PCD)					
2.	Department of Industrial works (DIW)					
3.	Industrial Estate Authority of Thailand					
	(IEAT)					
	Other that have data of the source					
	R is regulated by law, Should have					
	pilot project expansion in other areas or	96.1%	90.8%	90.7%	92.5%	
not.						

(In computing the % of "Agree/Yes", only "Yes" and "No" answers were used. "No comment" answers were removed from computation.)

Most stakeholders agree with the basic design and criteria of the pilot PRTR such as criteria of target substance selection, definition of point source, chemical handled criteria, non-point source coverage and reporting system, and are satisfied with the data disclosure and risk communication meetings that were implemented in the pilot project, to a moderate to good level.

For implementation mechanism, stakeholders agree that PRTR should be regulated by law, although there was an obvious difference between the private sector and the citizen groups. While over 95% of the citizen group replies consider that PRTR should be regulated by law, less than 70% of the private sector replies consider the same way. PCD should take the lead in PRTR, together with other regulating authorities. Local authorities should promote awareness raising/education. Provincial Offices of Natural Resources and Environment should lead the role in local scene. Agencies with data of the source should lead the role in non-point source estimation. Lastly, PRTR pilot project should be expanded to other areas.

Based on these results, there is no critical and immediate need for a major design change of PRTR.

Objective and Outputs	Satisfaction (Average)			
	Government	Private sector	Citizen/ Public	All
Project objective:				
PRTR pilot project operated by PCD, DIW and IEAT's	3.70	3.51	3.68	3.59
staff can achieve the objective of PRTR system				
Output 1	4.01	3.63	4.03	3.81
Basic design of PRTR system in Thailand is established	4.01	3.03	4.03	3.01
Output 2	3.67	3.39	3.70	3.54
Emission reporting scheme of industry is developed	3.07	3.39	3.70	3.34
Output 3				
Capacity of estimation of emission and transfer for point	3.68	3.40	3.68	3.54
source is strengthened				
Output 4				
Capacity of emission estimation for non-point source is	3.50	3.09	3.73	3.33
strengthened				
Output 5				
Importance of use of PRTR data including initial	3.68	3.42	3.76	3.57
assessment is understood				
Output 6				
Implementation structure of risk communication is	3.56	3.21	3.65	3.40
developed in the pilot area				

For 11) output, evaluation of the project is as follows.

For the outputs, stakeholders think that JICA PRTR project through pilot in Rayong has achieved the capacity development of PCD, DIW and IEAT's staff in a moderate to good level, and are satisfied with the outputs in a moderate to good level. Based on result, there is no critical and immediate need for a major design change of PRTR.