



**Asia-Pacific
Economic Cooperation**

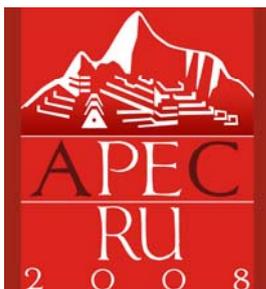
2008/SOM1/SCSC/TFTF/003

Agenda Item: 7

“Thailand RoHS” Development - Status Update

Purpose: Information

Submitted by: Electrical and Electronic Institute



**Sub-Committee on Standards and
Conformance Trade Facilitation Task Force
Meeting
Lima, Peru
23 February 2008**

APEC SCSC Trade Facilitation Task Force

Lima, Peru

23 / 02 / 2008

"Thailand RoHS" Development Status Update



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"Thailand RoHS" Development Status Update

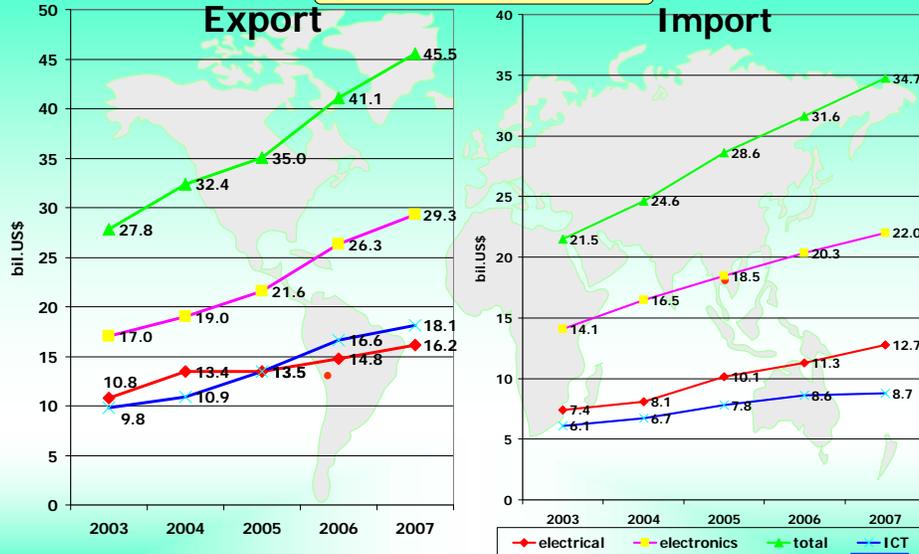


Outline

- Thailand E&E Industry Data
- Impacts from RoHS
- Capacity Building Experience
- "Thailand RoHS" Status to date



Thailand E&E Industry Data



Impacts at the Early Stage (2002)

- **Awareness of RoHS directive**
 - 16% well aware, 67% some awareness, 19% no knowledge
- **Impact from the RoHS Directive**
 - Direct impact 74%, Indirect impact 12%
- **Problematic Substances**
 - Lead 86%, PBB & PBDE 28%, Cd 14%, Cr(VI)&Hg 5%
- **Ability to stop using the banned substance**
 - Instantly 21%, not at the moment 65%, don't know 12%

Impacts at the Early Stage (2002)

- **Barrier for adjustment**
 - Cost of substitute materials 47%
 - Lack of material information 40%
 - Lack of technology 39%
 - Lack of local supplier 37%
 - Lack of supporting infrastructure 33%
 - Lack of technical personnel 32%
 - Lack of capital 18%

Related Issues from RoHS

- Cost and availability of HS-Free parts/material and mfg. process
- Reporting system for self - declaration and cost of product liability
- Stds., test method, test cost, and Certification of Conformity / Compliance for Market & Supply Chain Access
- Demands for : Protecting Local Market/Capacity Building Support
 - ❖ Don't want to become dumping ground
 - ❖ Prevent burdens from 'double standards'
 - ❖ Remove conflicting/obstructing laws/standards
 - ❖ Promote environmentally friendlier technology
 - ❖ Enact RoHS-like law
 - ❖ Raise environmental awareness and promote environmentally friendly products
 - ❖ Accurate and reliable analytical testing labs capable of verification tests
 - ❖ R&D on alternative materials and ec0-products' production technology
 - ❖ Expertise to provide guidance on the adjustment of management system
 - ❖ Push for urgent publication of international standards to reduce confusion and redundant actions

 "Thailand RoHS" Development Status Update 										
Capacity Building Project / Activities	00	01	02	03	04	05	06	07	08	09
	National Subcommittee for impact follow up and policy determination to EU Directives on WEEE and RoHS	•								
EEI study project (Department of Foreign Trade, MOC) - Study & research: legislative study, economic impact, LCA, eco-design, WEEE, RoHS, impacts and measures (ASEAN and EU), existing and suggested local e-waste mgmt.			•							
- Study trip : recycling plants, e-waste mgmt., research lab., RoHS reporting s/w (japan, korea and EU)				•						
National case study on environmental requirements, market access, and competitiveness in the electronics sector (UNCTAD/EEI)				•	•					
Thai-RoHS voluntary networking initiative (MTEC-National Metal and Materials Technology Center / EEI)						•	•	•	○	
MOI-Ministry of Industry established Committee (24 inter-ministerial members) to follow-up & handle EU environmental directives, will propose action plans for further Cabinet approval.						•	•	•	○	
Complete ○ Incomplete ○ No  Mr. Charuek Hengrasmee (charuek@thaipei.com) Electrical and Electronics Institute (www.thaipei.com)  7										

 "Thailand RoHS" Development Status Update 										
Capacity Building Project / Activities	00	01	02	03	04	05	06	07	08	09
	International meeting & participation in IEC TC111/WG2 (FTI/EEI), Bangkok							•	•	○
"Demo" project on central "JGPSSI" format/green supply chain S/W for SMEs by (EEI/METI-JETRO/Toshiba)- Green Procurement Management Model Demonstration						•	•			
SPF: Cap. building on testing & compliance assessment related to WEEE & RoHS for EEI (EEI)						•				
SPF: Guideline for RoHS/ELV compliance producers & preparation for EuP (MTEC/EEI/ISMED/FTI-TREE GREEN)						•	•			
SPF: Capacity building up for the determination of levels of regulated substances in electrical, electronical and automotive parts (MTEC Pro TREE)						•	•			
Complete ○ Incomplete ○ No  Mr. Charuek Hengrasmee (charuek@thaipei.com) Electrical and Electronics Institute (www.thaipei.com)  8										

Key Capacity Building Experience

□ ThaiRoHS Alliance Activity

- ❖ **Established: September 2004**
 - Voluntary gathering & experience/information sharing thru Website.
 - MTEC of MOST & EEI of MOI as focal pts. for coordination
- ❖ **Objectives:**
 - Organize efforts
 - Eliminate redundancy
 - Leverage minimum requirement
 - Guideline for SMEs
 - Standardize analytical procedures
 - Promote complied producers and hazardous substance free markets
- ❖ **Current status**
 - ~1,000+ members from 520 private companies, 32 government organizations, 40 academic institutions, and from 38 provinces

Key Capacity Building Experience

□ 3 EU-SPF C/B Projects

- Thai RoHS / ELV / EuP Green Guideline
(MTEC, EEI, FTI, ISMED): TREE Green Project
- Proficiency Thai RoHS / ELV / EuP Tests
(MTEC): Pro TREE Project
- Cap. building on testing & compliance assessment related to WEEE & RoHS for EEI (EEI)

Outcomes of ThaiRohs Alliance Activities and 3-Eu-SPF C/B Projects (as of MAR 2007)

- | | <u>Scale</u> | |
|---|--------------|-----------|
| | <u>From</u> | <u>To</u> |
| ❖ Readiness of Target group (14 COs)
(Policy, Operation, Products, Incoming
Material, HSF Mgmt. Syst., Data Mgmt. Syst.) | 2.2 | 3.2 |
| ❖ Readiness of 100 COs in ThaiRoHS group | | |
| ➢ Policy, Products, Customer, HSF Mgmt..... | | 3.2 |
| ➢ Incoming Mat., Data Mgmt, Sustainability, Employee.. | | 2.75 |
| * as of 2007 yearend readier is estimated of | | 4.0 |
| scale 0 = not started | | |
| 1 = just started | | |
| 3 = Almost | | |
| 4 = Completed | | |

Key Capacity Building Experience

- ❑ **National Strategies to handle EU Envi. Requirement Directive**
- ❖ **3 key strategies with government support approx. 25 Mil.US\$ for 4 yrs. (7 M. in 2008)**
 - Increasing industry and public awareness and develop "green" database.
 - Cap. Bldg. of local SMEs and testing labs.
 - Cap. Bldg. in standards and regulations and waste mgmt. system.
- ❑ **Development of "Thailand RoHS"**

"Thailand RoHS" Status to-date

❖ Background

- TC-1008 Set up in 2006
 - 9 Meetings from Aug 06 – Dec 07
- Harmonized with EU / IEC
- Self Declaration concept plus some Local Authorization & Certification Steps

❖ Current Status

- Draft Completed and pending review/approval by IPSC (Industrial Product Std. Council) on 13/02/08
- Expect to enact as "Voluntary Std." within 05/08
- TC-1008 is Setting up a Testing & Compliance Subcomm. to Consider Enforcement Scheme.
- To obtain feedback on practicality/pros./cons./etc. from stakeholders prior to further enact as "compulsory std." (a.s.a.p. or not later than mid '08, start with selected product groups having high risk/impact)



Thank You Kob Khun Krub