

NEPAssist: A Web-Based Mapping Application for Environmental Reviews and Assessments

Presented by



Davis Jones Office of Enforcement and Compliance Assurance U.S. Environmental Protection Agency

Next Generation Compliance in Asia Bangkok, Thailand September 22, 2015

NEPA Process Requirements

- National Environmental Policy Act
 - Conduct Environmental Reviews on a Broad Range of Projects
- Annually estimated 100,000 environmental review actions under NEPA
 - EISs, EA/FONSIs, and Categorical Exclusions
- Early Involvement Yields Results the Earlier Engaged the Better
- Constraints: Time, Staff Resources, and Access to Information

NEPAssist: Goal

GOAL:

 Develop a nationally available user-friendly tool that pulls together relevant location information and related environmental data for proposed projects

USES:

- Aid in the Development of NEPA Documents and Facilitate Project Planning
- Assists with Environmental Review/Screening of Proposed Projects



NEPAssist: Benefits

- Raises Important Environmental Issues at the Earlier Stages of Project Development
- Focuses in-depth reviews to those projects likely to have significant environmental impacts
- Helps direct project location to the least environmentally-susceptible areas
- Enhances Collaboration with Other Agencies for the Review of NEPA Documents

3



NEPAssist: Overview

- Web-based GIS Tool ... No training; No licensing; No desktop configuration; No desktop data needed
- Distributed Geo-Spatial Application ... via web services

 Real-Time Geospatial Analysis ... Using national and regional web services "On the Fly"



Select Study Area

NEPAssist

🖂 Contact Us 🙆 Share

5

ional Enviro Policy Act NEPAssist is a tool that facilitates the environmental review process and project planning in relation to environmental considerations. The web-based application draws environmental data dynamically from EPA's Geographic Information Help System databases and web services and provides immediate screening of environmental assessment indicators for a user-defined area of interest. These features contribute to a streamlined review process that potentially raises important environmental issues at the earliest stages of project development. Visit the Help section in the NEPAssist tool. Notes About NEPAssist Accessibility Enter New Study Area Miami, FL Search A study area can be a place or or an area. To get a map of the vicinity of an area of interest, you can enter an address, ZIP code, city, county, watershed, or a pair of coordinates in the search box. The following are examples: Dallas 77 W. lackson Blvd, 60604 77 W. Jackson Blvd, Chicago, IL Arlington County, VA 60085 LAX For Coordinates, enter Latitude and Longitude (in that order): 38.1.-78.2 For Watershed, enter watershed: 01020003 For Congressional District, enter cd: CA01

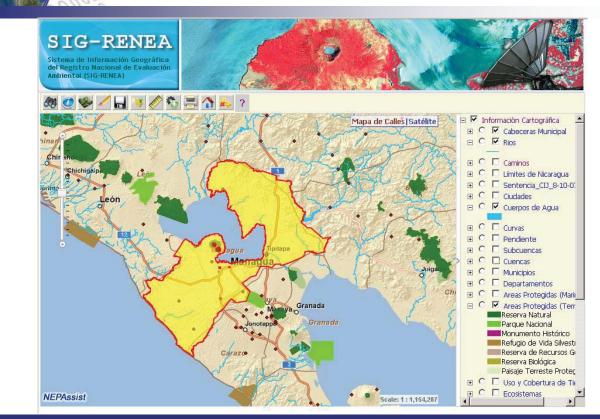
You are here: EPA Home » NEPAssist Home



۷



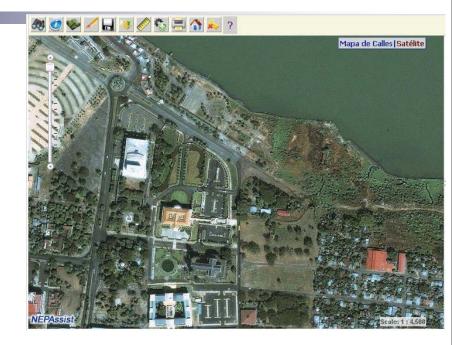
Add Data Layers



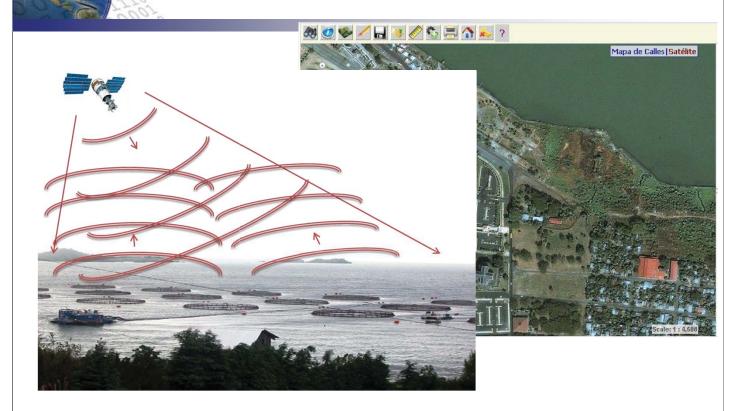
7



Remote Sensing Information



Remote Sensing Information



9

Different Layers Build Story

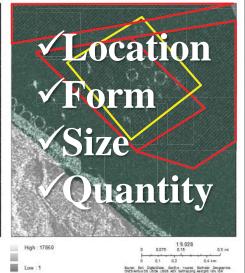
Centro de Cultivo observado con SAR

Centro de Cultivo observado con sensor óptico



High : 17860

Imagen SAR comparada con Concesión Otorgada



Low : 1

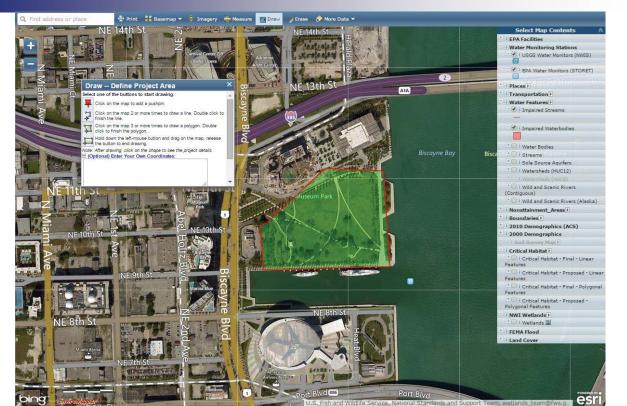
del Medio Ambiente Gobierno de Chile

Low : 1

٩



Draw Project Area





Preliminary Environmental Assessment

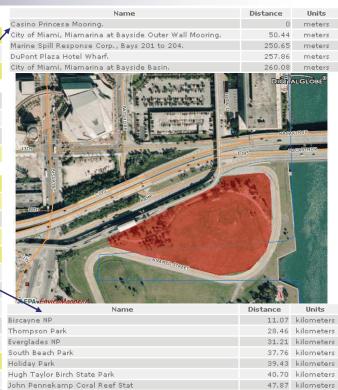
Sites		A GIS tool that assists with
Within 400 meters of a school?	<u>yes</u>	the review process of
Within 400 meters of a hospital?	no	Environmental Impact
Within 400 meters of a port?	<u>yes</u>	Statements and
⊟Nonattainment		Environmental Assessments
Within 400 meters of a SOx nonattainment area?	no	
Within 400 meters of a lead nonattainment area?	no	DIGITALGLOBE
Within 400 meters of a CO nonattainment area?	no	The optimization is a second second
Within 400 meters of an ozone nonattainment area?	<u>yes</u>	
EcoSystem		MACARTHUR
Within 400 meters of an area of level 4 ecoregions?	<u>yes</u>	13TH MARTIN
Within 400 meters of a designated sole source aquifer?	<u>yes</u>	List Territ
Within 400 meters of a designated priority watershed?	no	
Within 400 meters of a major river?	<u>yes</u>	2 0.595 - 0.8MP
Within 400 meters of a designated 100-year FEMA floodplain?	<u>yes</u>	1011
Within 400 meters of a National, State, or Local forest or park?	no	· Barris
Within 400 meters of a National wildlife refuge?	no	
Within 400 meters of a managed land/conservation area?	no	UNAMEDSTREET
Within 400 meters of a wild and scenic river?	no	
Within 400 meters of a designated AL NWI wetlands area?	no	A CONTRACTOR OF A CONTRACTOR O
Within 400 meters of a designated FL NWI wetlands area?	<u>yes</u>	SEPA _D Environ/appenda
Within 400 meters of a designated GA NWI wetlands area?	no	





Data Drill Downs

Sites	
Within 400 meters of a school?	<u>yes</u>
Within 400 meters of a hospital?	
Within 400 meters of a port?	<u>yes</u>
ENonattainment	
Within 400 meters of a SOx nonattainment area?	no
Within 400 meters of a lead nonattainment area?	no
Within 400 meters of a CO nonattainment area?	no
Within 400 meters of an ozone nonattainment area?	<u>yes</u>
EcoSystem	
Within 400 meters of an area of level 4 ecoregions?	<u>ves</u>
Within 400 meters of a designated sole source aquifer?	<u>ves</u>
Within 400 meters of a designated priority watershed?	no
Within 400 meters of a major river?	<u>ves</u>
Within 400 meters of a designated 100-year FEMA floodplain?	<u>ves</u>
Within 400 meters of a National, State, or Local forest or park?	
Within 400 meters of a National wildlife refuge?	
Within 400 meters of a managed land/conservation area?	no
Within 400 meters of a wild and scenic river?	no
Within 400 meters of a designated AL NWI wetlands area?	no
Within 400 meters of a designated FL NVI wetlands area?	<u>ves</u>
Within 400 meters of a designated GA NWI wetlands area?	no





13





Strengthening Environmental Impact Assessments in the Lower Mekong

U.S. Environmental Protection Agency

U.S. AID Regional Development Mission for Asia

October 2014 – October 2018



附錄27、泰國Map Ta Phut Industrial Estate介紹簡報

INDUSTRIAL ESTATE AUTHORITY OF THAILAND

Welcome to Map Ta Phut Industrial Estate



Industrial Estate Authority of

Thailand : I-

EA-T



State Enterprise Founded in 1972

Attached to the Ministry of Industry



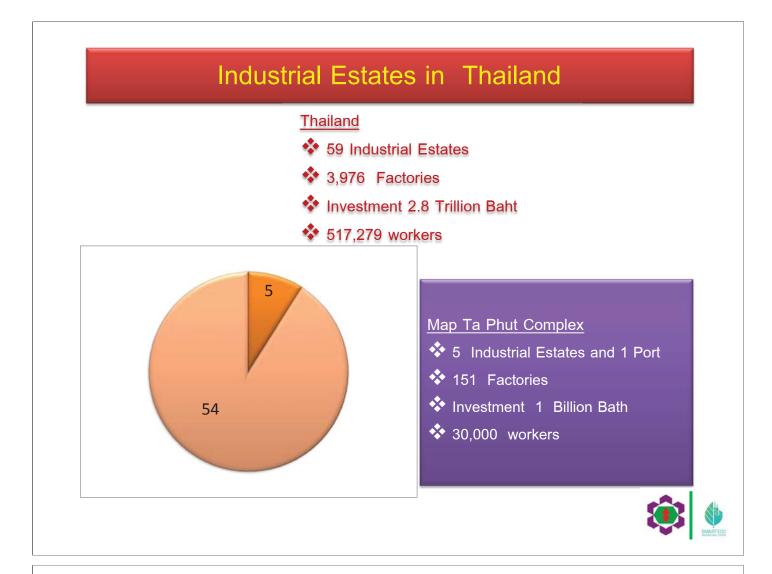
Develop and Manage Industrial Estates



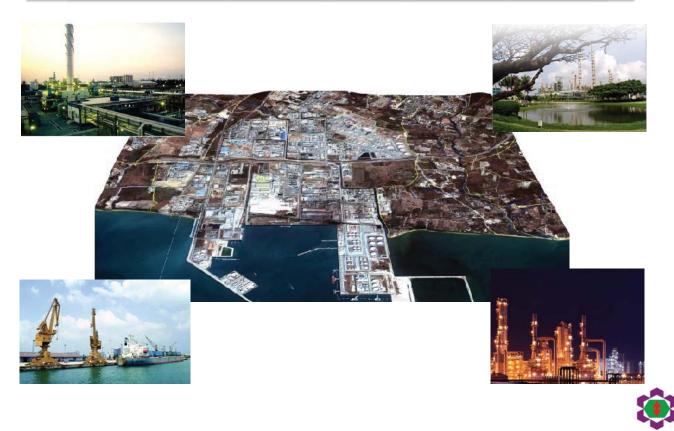


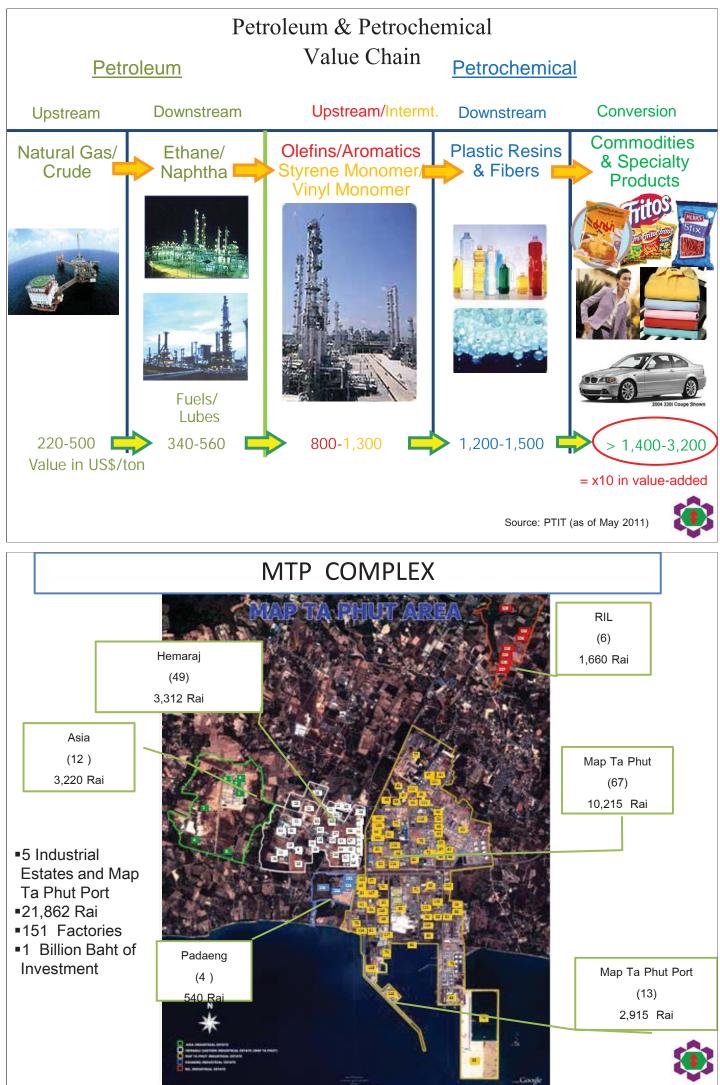
Industrial Port Development



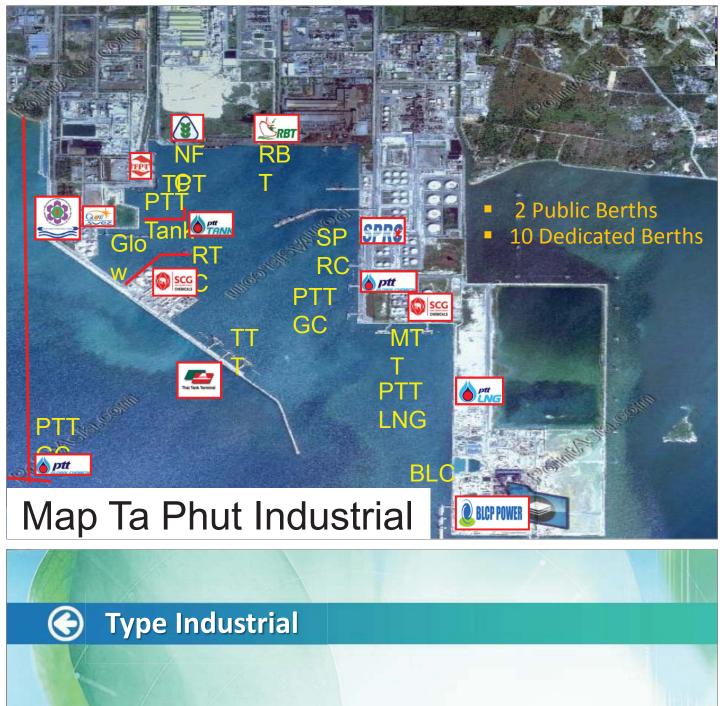


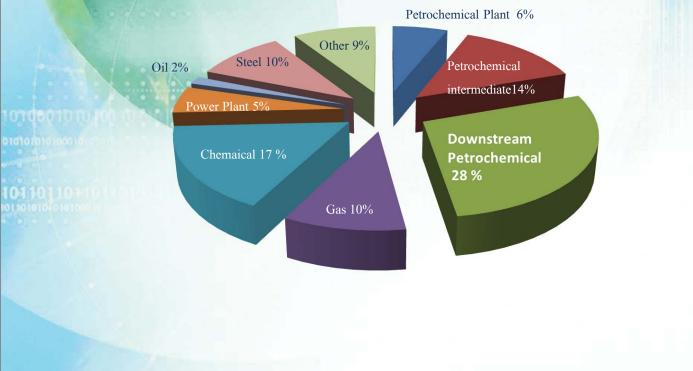
Map Ta Phut Complex





A-242





Utilities and Facilities



Road System

Main road 40 meter width and 5.8 km. Length with

steel reinforces concrete.





Electricity System

115 KVA, 22 KVA, 245 MW, supplied by EGAT and 1,300 MW supplied by private power plants.

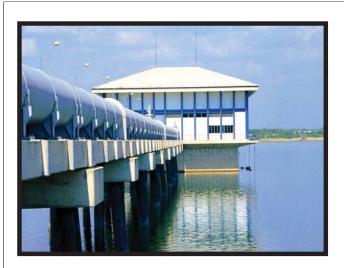




Telecommunication

ISDN system, teleconference, fiber optics, internet, E-mail.





Raw Water System

Capacity of 100 million m³/year , current industrial consumption 72 million m³/year



Water Supply

Capacity of 15,300 m³/day , current industrial consumption 5,000 m³/day



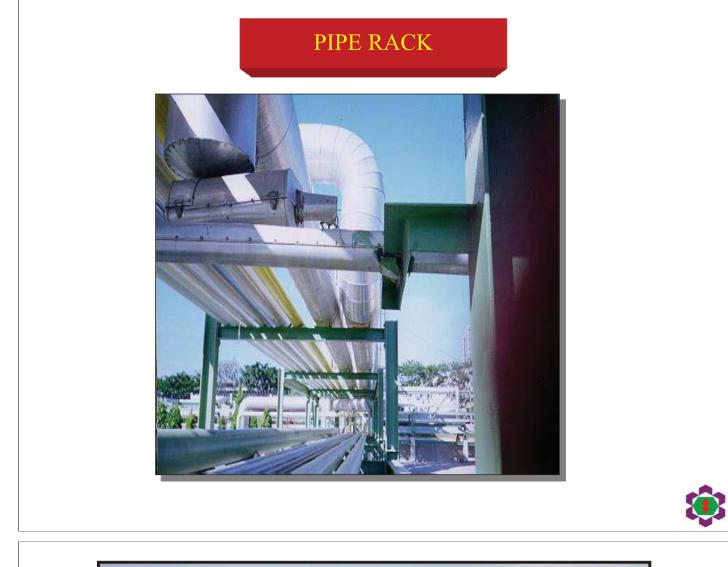
Waste Water Treatment System

(General Industrial Zone)

Capacity 4,000 m³/day , current service 1,000 m³/day









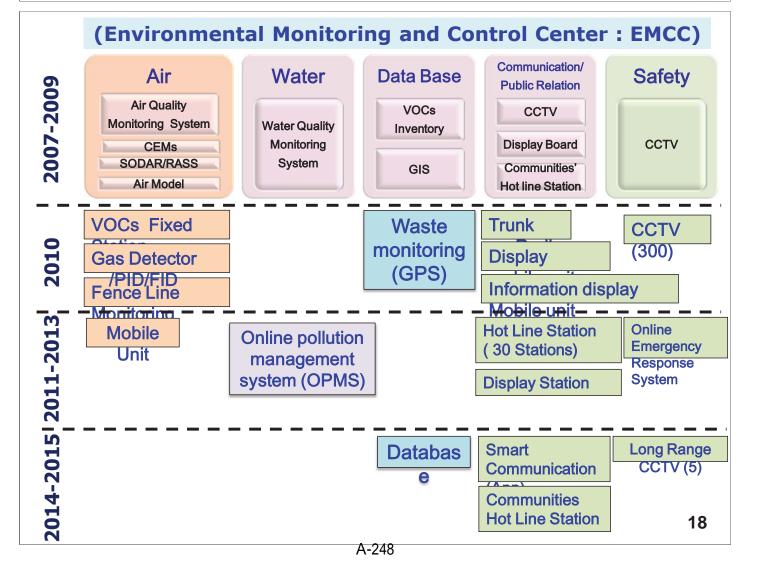
Deep Sea Port

Major service for general goods, chemicals, liquid products, iron and steel, fertilizer and petroleum.









Walk through and Evaluate Factories with Local Communities

Green Star Awards and Gold

Year 2007: 32 factories were in great criteria. Year 2008: 49 factories were in great criteria. Year 2009: 47 factories were in great criteria Year 2010: 56 factories were in great criteria Year 2011: 86 factories were in great criteria Year 2012: 96 factories were in great criteria 18 factories were in and great criteria Gold Star award Year 2013: 91 factories were in reat criteria twice a vear



Eco Industrial Estate & Networks

Ultimate Goal : Industry is a part of Community and living together with happiness and sustainability

5 Aspects 22 Areas							
Physical Aspect	Economic Aspect	Environmental Aspect	Social Aspect	Management Aspect			
landscape/Land	Green Country Economic	Resource & Material Management	Quality of life of employee (Happy Workplace)	Management by cooperation &			
use/Green Area/Zoning		Energy Management		Participation Enhancing of			
		Production Process & Product		Factory Audit			
Eco Design for Common Utility & Infrastructure	Economic growth of local area	Water pollution		Promotion of Mang. system (ISO Series), including risk management and			
		Air pollution	Quality of file				
Energy Efficiency & of commu Environmental Eriondly Building (Good job	Economic growth	Waste management	of the people surrounding	Technology			
	of community (Good job makes better living of life)	Responding to the complaints	(Happy Community)	innovation to the Industry			
		Safety & Health		Public			
		Industrial Symbiosis Networks		disclosure/ Sustainable Report.			







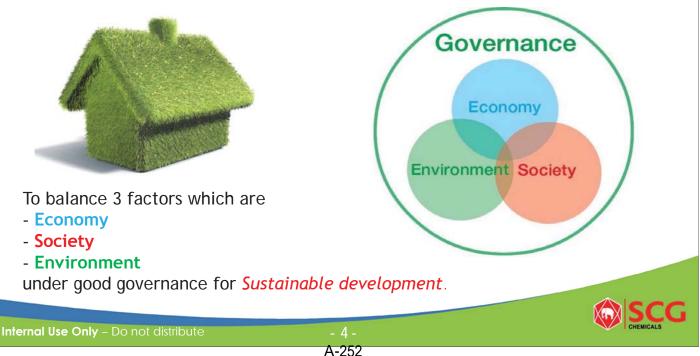
Business Philosophy

- Adherence to Fairness
- Dedication to Excellence
- Belief in the Value of the Individual
- Concern for Social Responsibility

Internal Use Only - Do not distribute

Our SUSTAINABLE DEVELOPMENT

SCG Chemicals is committed to doing business along with building sustainable success for the country and the communities that it does business with.





A-253

Economy:

Support community enterprises to create income 35,000 USD/Year



Economy

Open Market in Factory





Economy:

Local income support - Support community enterprises about 0.6 Million US\$



Landscaping & green area

Community Enterprises - Products



Internal Use Only - Do not distribute

Good Governance



Economy

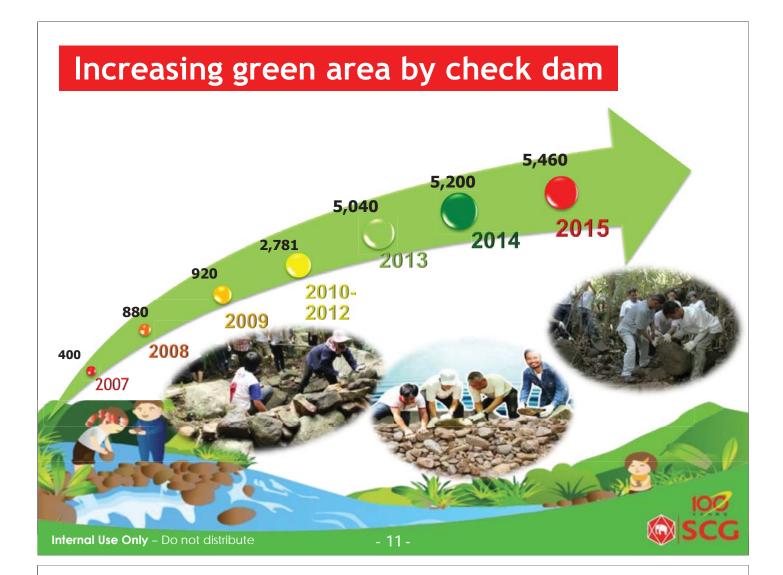


Environment

10 Carlotte Sa

Social

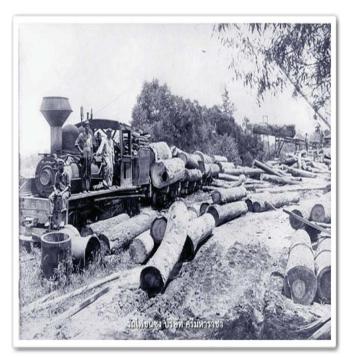
A-255



Outcome impact

Before

After









Social – Engage relationship

Engage relationship with communities

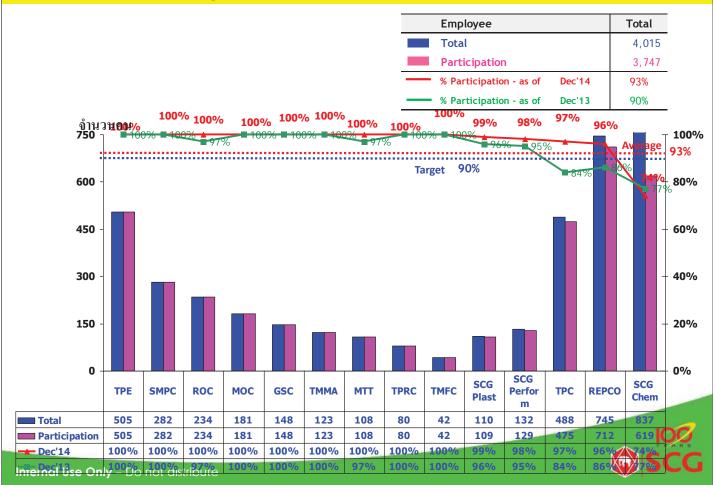




SCG Chemicals held *"the 5th year HRH Princess Sirindhon's Cup Youth League"* which had been organized for 5 years continually. There are under 15 year-old football players from 10 teams in Rayong join the tournament to promote health and develop skills of young football players in Rayong for professional level.



CSR Participation in 2014 (As of 31 Dec)



Employees Participation



One Manager One Community (OMOC) Project

The main purpose of this activity is to build up good relationship between SCG Chemicals and communities, and also listen to the communities' voices.

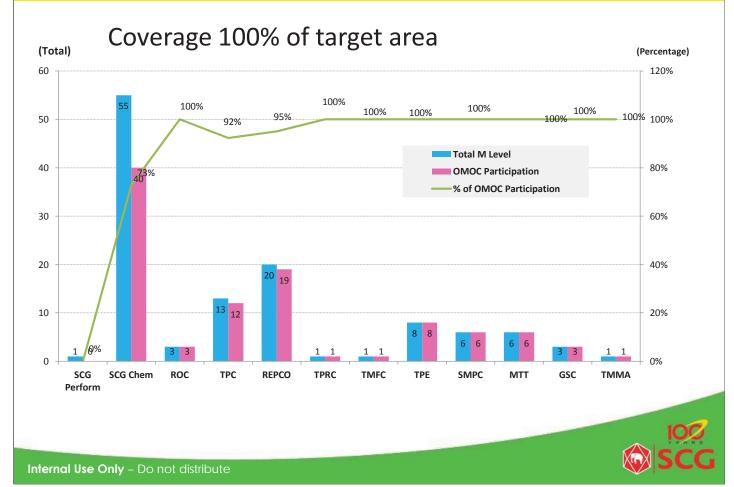
Nowadays : we specific assigned employees (S level in Rayong and their teams) in each company to take care nearby communities



Internal Use Only - Do not distribute



OMOC Participation in 2014 (As of 31 Dec)



Community Partnership Association





Key projects

<u>Health</u>

- 1. Mobile Clinic 37 times/year for people in Rayong
- 2. Doctors & Nurses Employment
- 3. Nurse scholarships
- 4. Master program Scholarships in Occupational Health Science
- 5. Support & Encourage Village Health Volunteers

Education

- 1. English & Science Camps for Undergrad students in Rayong
- 2. Bachelor Scholarships in Engineer, Environmental Science, and Education programs
- 3. Education planning Seminar for Parents



บานเราน่าอยู่ สังคมยั่งยื่ม

Internal Use Only - Do not distribute

