



ASEAN – German Technical Cooperation
Clean Air for Smaller Cities in the ASEAN Region



6th High Level Seminar (HLS) on Environmentally Sustainable Cities (ESC)

Iskandar, Malaysia
 9-10 February 2015

Thematic Session B: Capitalizing on Opportunities for Air Quality Action

Roll-out of Clean Air Plan Development in the ASEAN Region

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 Programme Director

ASEAN-German Technical Cooperation Programme
 "Cities, Environment and Transport in the ASEAN Region"



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Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH - German International Cooperation



- Owned by the Federal Republic of Germany
- Organized as a private-sector entity
- Supports the objectives of the German government
- Operations in **130 countries** and employs **17,000 staff**
- Commissioned by public and private sector bodies inside and outside Germany
- Main commissioning party: the **German Federal Ministry for Economic Cooperation and Development (BMZ)**

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ASEAN: Association of South-East Asian Nations

Programme area: 10 Member States, w/o Singapore and Brunei

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The Programme
“Cities, Environment and Transport” (€13.2 mil.)
 Hosted by Thailand

Component	Period	Amount	Countries	Cities/Ports
Clean Air for Smaller Cities (CASC)	2009-2015	€5.48 mill.	8 countries	12 cities
Transport and Climate Change (TCC)	2013-2015	€2.5 mill.	5 countries	-
Sustainable Port Development (SPD)	2009-2015	€5.2 mill.	7 countries	11 ports



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Objectives of individual CET programme components




- Improving the conditions for increasing energy efficiency and the reduction of greenhouse gas emissions for the land transport sector in ASEAN, by means of strategies and action plans





- Clean Air Plans in smaller and medium-sized cities are under implementation



- Selected ports have improved the quality and efficiency of their safety, health and environmental management



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Working Levels

Regional (ASEAN bodies)

CASC	National (ASEAN Member States)	Subnational (Cities, Ports)			
SPD				CASC	SPD
TCC				CASC	SPD

CASC: Clean Air for Smaller Cities
 SPD: Sustainable Port Development
 TCC: Transport and Climate Change



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Clean Air for Smaller Cities

Countries


Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Thailand and Vietnam; 12 cities in 8 countries

Overall Project Objective


To develop clean air plans (CAP) for smaller cities and support implementation

Indicators


1. At least 11 smaller and medium sized cities (0.2 - 1.5 mill. inhabitants) have developed CAPs
2. In at least 7 cities, CAPs are under implementation
3.
4.
5. ...



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Selected key activities

- Road Map elaboration
- Public participation e.g. Vision and Goals Workshops
- Refinement of air quality monitoring data




PM₁₀
PM_{2,5}
PM₁
mass


particle

Some activities:


- Selection of hot-spots in cities
- Up-grade of existing mobile station
- Interpretation of data
- Monitoring plans with “found“ equipment
- Use of “rented“ portable equipment



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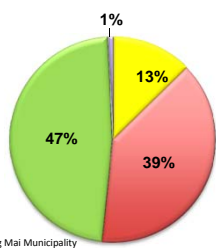
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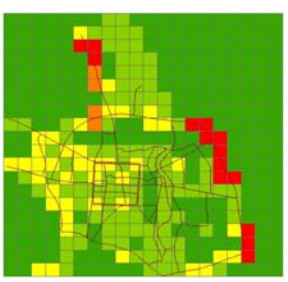
Selected key activities

- Road Map elaboration
- Public participation e.g. Vision and Goals Workshops
- Refinement of air quality monitoring data
- Emission inventory development



Chiang Mai Municipality


Source	Percentage
Point source	1%
Area source	13%
On-Road Mobile source	47%
Non-Road Mobile source	39%





CO₂Total

CO ₂ Total Range	Color
00 - 10.00	Dark Green
10.01 - 25.00	Light Green
25.01 - 75.00	Yellow
75.01 - 125.00	Orange
125.01 - 390.75	Red

0 500.000 1.000 2.000 3.000 4.000 1:80.000




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Selected key activities


- **Road Map elaboration**
- **Public participation e.g. Vision and Goals Workshops**
- **Refinement of air quality monitoring data**
- **Emission inventory development**
- **Immediate action plans**
- **CAP development**
- **Training development**





Systematic Training Approach

Courses (T4CA) developed

General AQ management for decision makers in cities
Emission inventories for cities
Air quality monitoring for cities
General AQM for NGOs
Effective Communication for NGOs on Air Quality Management






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Project Impacts in Numbers

- **13 self-financed emission inventories in Indonesia, 2 in the Philippines**
- **6 Clean Air Plans under implementation through local decrees and budget allocation**
- **4 national training hubs**
- **1 university integrated AQMt in curricula**
- **1 handbook on emission inventory development in Indonesia, decree for national standard to be issued**


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The Programme
“Cities, Environment and Transport” (beyond 2015)



Transport and Climate Change (TCC)

2016-2018
 € 3.3 mill.
 4-5 countries –
 4-5 MetRegs

Sustainable Mobility in Metropolitan Regions (SMMR)

2016-2018
 € 3.5 mill.
 5 countries


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Sustainable Mobility in Metropolitan Regions

Approach:

- “Coaching the mayors”: Dialogue-oriented information and discussion events with high-level decision makers of metropolitan regions; the project offers int’l know-how
- “Better neighborhood”: Exemplary solutions for urban and sub-urban districts considering sustainable development principles,
- “Science based capacity building”: Selected universities in the ASEAN-Region team with int’l acknowledged urban transport scientist in lecturing and public hearings.



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The Grace of Regional Projects

- Regional integration at working level
- Sharing the same problems helps finding same solutions
- Stronger countries help weaker ones (“south-south” cooperation)
- Exchange of experts
- Economies of scale (once developed – applied 10++ times)
- Harmonisation of approaches and methods (“same standards”)
- Mainstreaming of environment and climate issues in the ASEAN bodies and “trickle-down” to member state authorities



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Thank you!

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www.CitiesForCleanAir.org

www.CitiesEnvironmentTransport.org