



THE ROLE OF LOCAL GOVERNMENT TOWARDS GREEN PURCHASING



Mrs. Suwanna Jungrunrueng
Director of Policy and Planning Division
Department of Environment
Bangkok Metropolitan Administration



ENVIRONMENTAL PROBLEM

- Rapid population growth
- Using energy and natural resource
- Natural resource deterioration
- Increase pollutions
- Global warming





URBAN DEVELOPMENT CHALLENGES

Water Pollution



Solid Waste



Air Pollution

- Dramatic increase in urban growth
- Rapid population growth accepting huge migration into the city
- Improper for infrastructure and public services.



GREEN PURCHASING AND URBAN DEVELOPMENT

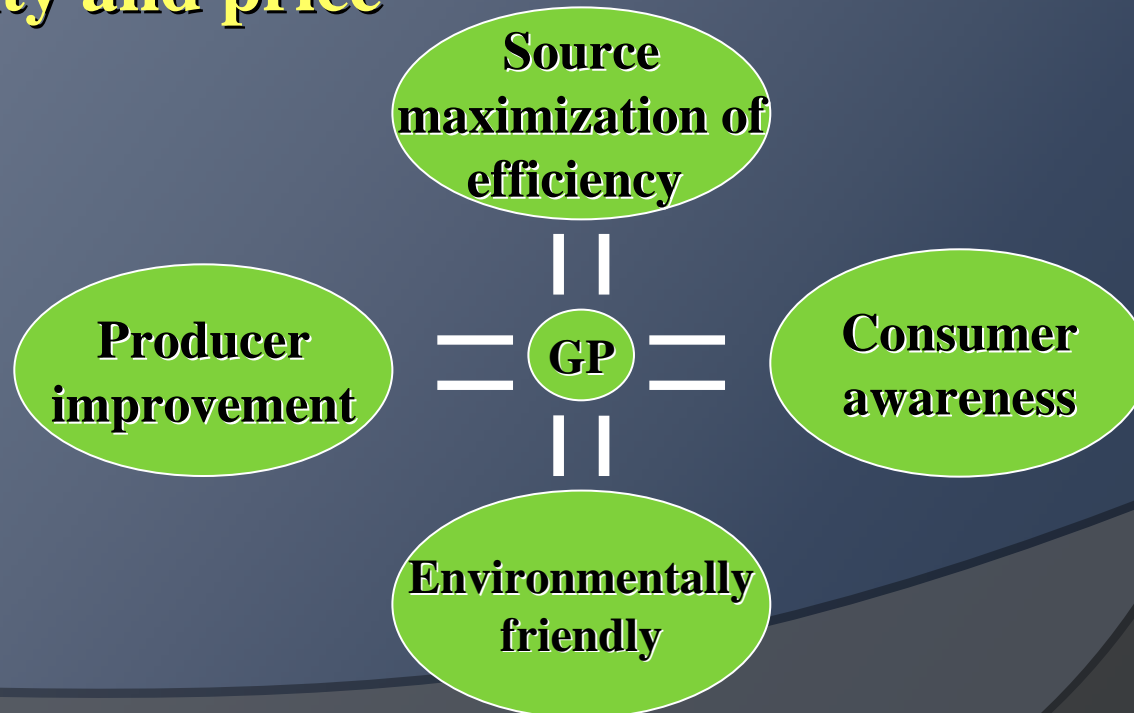
- Decrease of the environmental impact from the goods and services
- **Mitigation of global warming**
- Environmentally friendly development





GREEN PURCHASING

- Green purchasing environmentally preferable products and services
- **Consideration of environmentally friendly , not only quantity and price**





BENEFITS OF GREEN PURCHASING

- Consumer : save money , be healthy
- Producer : workers are healthy , safety , technology and resources effectively
- Environment : sustainable development





NATIONAL POLICY DEVELOPMENT

- In 2004 National Economy and Social Development Board set up “Government Green Purchasing Policy”.
- In 2004 – 2005 Thailand Environment Institute transformed policy into implementation green purchasing .
- In 2005 – 2008 Pollution Control Department (PCD) Ministry of Natural Resources and Environment was assigned to implement this plan.
- In 2007 PCD set up Guideline of Environmental Goods and Services (17 categories).



NATIONAL POLICY DEVELOPMENT

- In Jan 2008 Cabinet approved “Government Green Purchasing Plan”.
- Sign MOU to promote green purchasing by 15 organizations including Bangkok Metropolitan Administration.
- Regulation need to be revised to support “Government Green Purchasing Plan” under consideration of Council of State.



15 ORGANIZATION SIGN MOU ON “PROMOTE GREEN PURCHASING”

Such as :

1. BMA
2. Bank of Thailand
3. Petroleum Authority of Thailand (PTT)
4. Electrical Electronics & Allied Industry Club

CONTENT OF MOU

1. Set up green purchasing policy and implement action.
2. Increase awareness and promote green purchasing.
3. Set up green purchasing action plan of organizations and strong implementation.
4. Create network of green purchasing to share ideas and cooperation.





PROMOTE GOVERNMENT GREEN PURCHASING PLAN

Target : Increase percentage of government organizations and green product purchasing

| Level | Year | % Government organizations | % Purchase green product |
|--------------------|------|----------------------------|--------------------------|
| National | 2008 | 25% | 25% |
| | 2009 | 50% | 30% |
| National and Local | 2010 | 70% | 40% |
| | 2011 | 100% | 60% |



THE SYMBOL SIGNIFIES ENVIRONMENTAL CONSERVATION IN THAILAND



Green label

**: Product and service
with minimum impact**



Green leaf

**: Good environmental
management hotels**



**Carbon
Reduction
label**

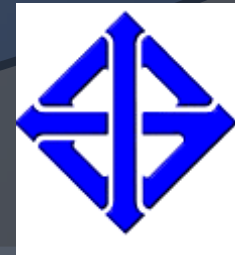
**: Low carbon emission
product**



CRITERIA OF ENVIRONMENTALLY FRIENDLY GOODS AND SERVICES (17 CATEGORIES)

- Recycling material 30% , Packaging 70%
- **Material non toxic , Non carcinogen**
- Reduction of electricity consumption
- **Meet the standard criteria of noise and air pollution**
- Safety for user
- **Packaging recycling , Non CFC_s**
- Certification mark

Green Label , Green Leaf , Industrial Standards Label





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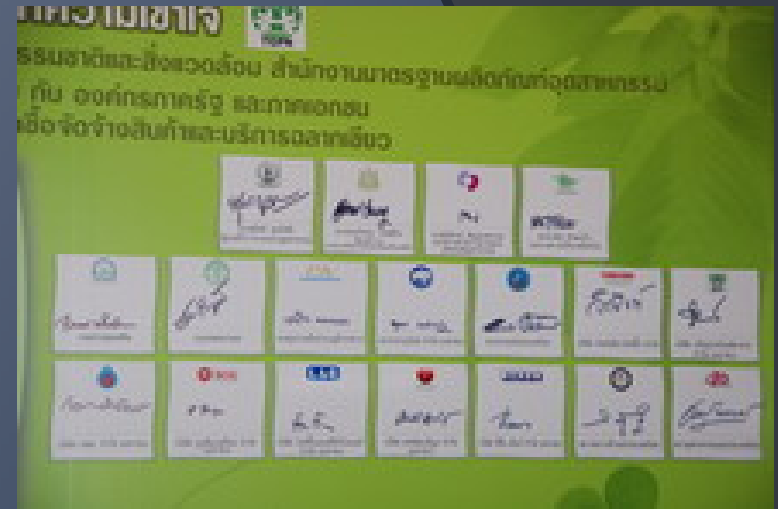




BMA GREEN PURCHASING

❖ How To Implementation Green Purchasing

- Signed MOU promote green purchasing.
- Procurement committee approved to follow government green purchasing plan.
- Circulate guideline and criteria of environmentally friendly goods and services.
- Implement the government green purchasing plan .
- Follow up BMA green purchasing.





GREEN PURCHASING IMPLEMENTATION

1. Cooperate with SCG PAPER Public Company Limited



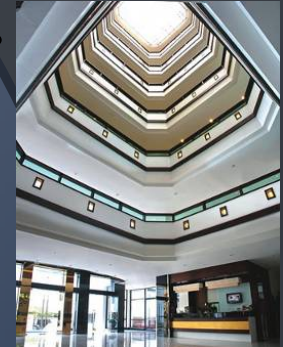
2. Cooperate with Electricity Generating Authority of Thailand





GREEN PURCHASING IMPLEMENTATION

3. Improve energy efficiency of BMA's buildings.



4. Renewable energy promotion



5. Reduce plastic bags





COOPERATE WITH SCG PAPER PUBLIC COMPANY LIMITED



Project on separation used paper in office for
global warming mitigation





PROJECT ON SEPARATION USED PAPER IN OFFICE FOR GLOBAL WARMING MITIGATION



Objective

- To promote waste separation in office
- To promote environmentally friendly product
- To increase awareness on 3R concept

Target

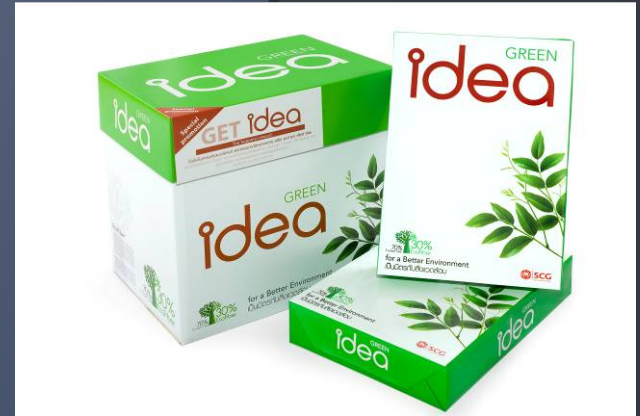
171 offices

Time

16 February – 30 September 2009



PROJECT ON SEPARATION USED PAPER IN OFFICE FOR GLOBAL WARMING MITIGATION



Implementation

- All BMA's offices collect used paper.
- Exchanging used paper for paper bin made from recycling paper.
- Purchasing green paper (30% recycling).

Result

- Collected used paper 8.9 ton
- 44,500 THB (~1,350 USD)



Future implementation

collection all kinds of paper such as newspaper , magazine , cardboard



COOPERATE WITH ELECTRICITY GENERATING AUTHORITY OF THAILAND

Energy – Saving

1. Replace incandescent bulbs with energy – saving light bulbs at BMA market.
 - 10,000 bulbs
 - Save electricity 3.6 Gwh/yr , 0.33 millionUSD/yr





COOPERATE WITH ELECTRICITY GENERATING AUTHORITY OF THAILAND

Save energy 30%

Energy – saving fluorescent lamps

2. Replace of T8 with thinner T5 energy at hospital.

- 100,000 lamps
- Save electricity 3.5 Gwh/yr , 0.32 USD/day





ENERGY EFFICIENCY IMPROVEMENT

Green building concept

Renovate building to be more energy efficiency

Reduce electricity consumption

Building energy code of The Enhancement of Energy Conservation Act.





RENEWABLE ENERGY PROMOTION

Solar Cell & Solar Water Heater in BMA School

- **12 BMA schools install solar water heater (2,000 liter)**
save electricity 23,760 unit/year (2,664 USD/y)
pay back period 8.3 year
 - hot water to clean dishes and floor
 - Satisfied more than 90%
- **1 unit Solar Cell**
save electricity 2,935 unit/yr. (329 USD/yr.)





RENEWABLE ENERGY PROMOTION

Biodiesel

- Collected used cooking oil from Bangkok residents.
- 435 BMA schools , 161 markets and supermarkets.
- 25 gas stations of Bangchak Petroleum Public Company Limited purchased used cooking oil for biodiesel.
- In 2007 - 2008 could collect ~160 ton.
- Promote using biodiesel for vehicle.
- Produce biodiesel.





PLASTIC BAGS REDUCTION

- Campaign to promote reusable cloth bags when shopping.
- **BMA distributed 30,000 cloth bags by private partnership.**
- Increase the implementation to other districts.
- **Distribute cloth bags with the leaflets to campaign global warming.**
- Characteristic of cloth bags for alleviate global warming is made from calico or other types of environmentally friendly fabric

Campaign project with Ministry of Natural Resource and Environment to reduce plastic bags.

Reduce ~ 8,000 tons

Reduce CO₂ ~ 4,000 tons





Thank You

CITY OF CLEANLINESS & GREENERY

กรุงเทพฯ มหานครแห่งสิ่งแวดล้อม

สร้างสวนสวย ปลูกต้นไม้ เมืองสะอาด สิ่งแวดล้อมที่ดี
เพื่อคุณภาพชีวิตและความสุขของชาวกรุงเทพฯ

