

Greening a Local Authority - Petaling Jaya Low Carbon Green City

Lee Lih Shyan

Secretariat, Low Carbon Green City Task Force Of PJ

24th May 2014



Background

City

Community

Local Authority

Household

Individual



Businesses' response for economic reason, but LA?

Warming up to new rates

Businesses to set thermostats higher to cope with electricity tariff hike

PETALING JAYA: It's going to get warmer indoors in 2014 as shopping malls, tall buildings and offices raise temperatures to cut electricity costs.

The Malaysian Association for Shopping and Highrise Complex Management is advising its 400-odd members nationwide to set their air-conditioning at 23°C or 24°C.

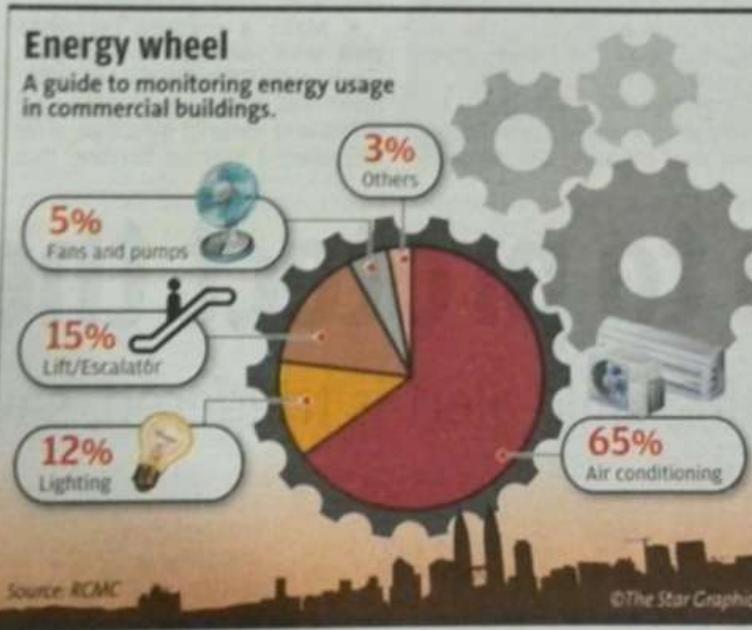
Air conditioning, according to the association, takes up the largest share of energy - about 65% - in commercial buildings.

Its president H.C. Chan said most malls in the country are now too cold, with temperatures ranging from 21°C to 23°C.

"We can and should move up a few degrees especially now with mounting energy costs. The reality is that we need to be energy efficient and eliminate waste because electricity is our single, largest expendi-

Energy wheel

A guide to monitoring energy usage in commercial buildings.



"Set your air conditioners at optimal temperature to avoid waste and switch everything off when staff are out for lunch," he said. "The costs of converting to energy savings devices like LED lights are expensive but effective in the long term."

MEF represents 4,500 member companies and 18 affiliate trades associations.

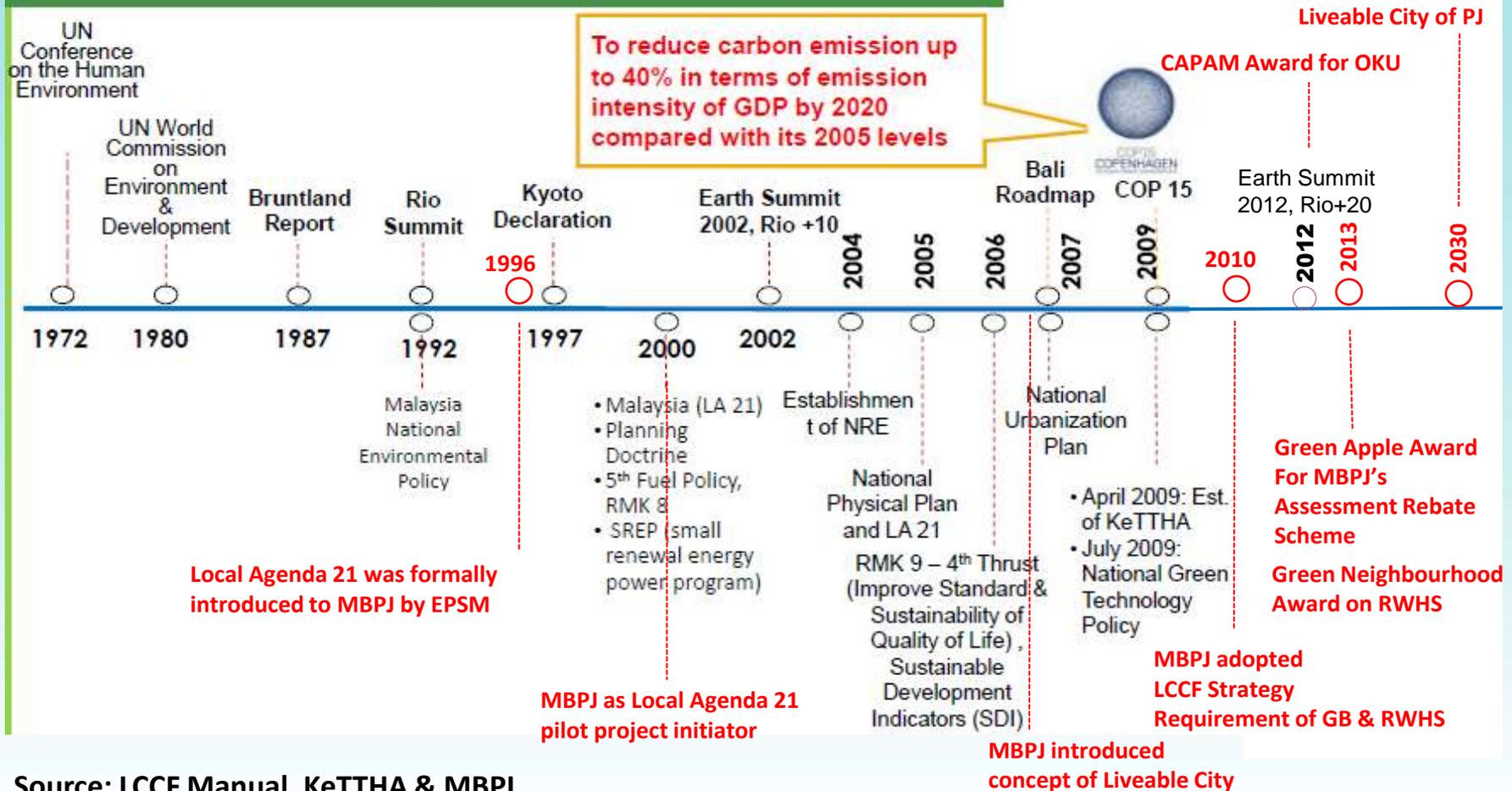
Shamsuddin said employers "may be tempted" to cut back on staircases and parking area lighting and cautioned them against compromising their employees' safety.

Malaysian Medical Association president Datuk Dr N.K.S. Tharmaseelan said stand-alone clinics that are already struggling to meet rising overheads are certain to replace air-conditioners with fans. "This is especially so for 24-hour clinics," he said.

He said government hospitals h

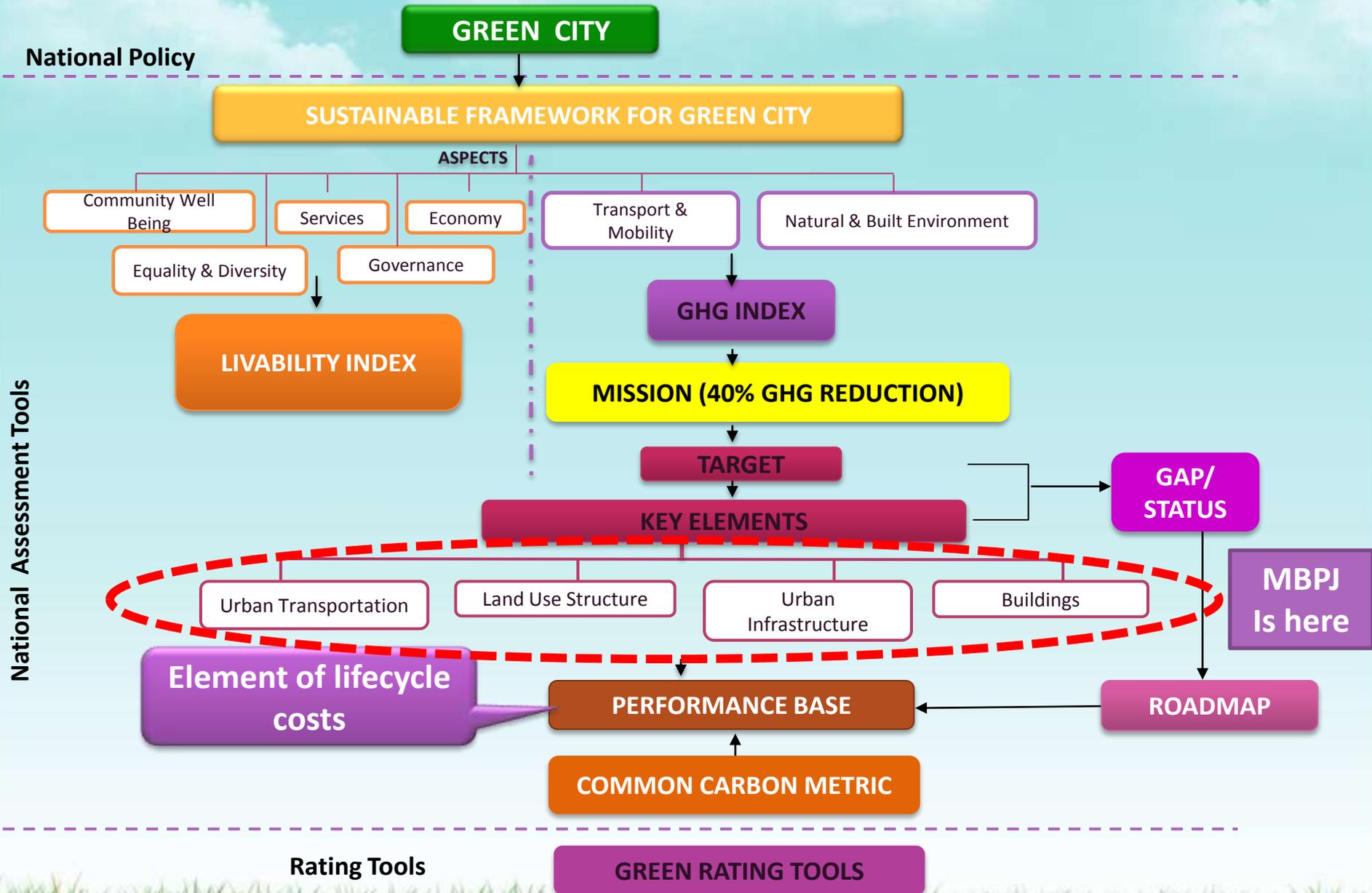
Climate Change Agenda in PJ

CLIMATE CHANGE AGENDA TOWARDS GREEN AND SUSTAINABILITY



Source: LCCF Manual, KeTTHA & MBPJ

Sustainability framework *for* Green Cities





Low Carbon Green City of PJ Task Force

Background

14th December 2010

MBPJ adopted the Low Carbon Cities Framework published by KeTTA and MIP.
Another milestone of continuing the Local Agenda 21 initiative for sustainable development

Membership

- 5 Councillors (Chairman: En. Khairul; Ahli: Pn Cynthia, En. Richard, Terrance, Hj Ghazali Daud)
- Department of Planning, Engineering, Building, Health, Landscape, Treasury, Licensing, ICT, Secretariat, Procurement, Internal Audit, Legal, Complaint, PRO and OSC
- NGO: MIP and CETDEM

INITIATIVES

- **Low Carbon MBPJ**
 - E-Meeting with digital copy of agenda
 - No Plastic Day on every Friday
 - No Bottled Drink
 - Green Monday
 - NGV operated vehicle and 1st hybrid car
 - Green Building of MBPJ HQ and Mayor's Residence
 - Engine Off Zone in MBPJ premises



AKTIVITIES OF LOW CARBON GREEN CITY OF PETALING JAYA



MBPJ lancar Hari Tanpa Kereta
 (Majlis Bandaraya Petaling Jaya) hari ini mengumumkan pelaksanaan Hari Tanpa Kereta (HTK) pada 11 Oktober 2011. HTK adalah inisiatif tahunan yang dianjurkan oleh MBPJ untuk menggalakan pengguna kenderaan awam dan pengguna kenderaan peribadi untuk menggunakan pengangkutan awam pada hari tersebut.



Iktiraf sambutan Hari Tanpa Kereta
 PETALING JAYA – Majlis Bandaraya Petaling Jaya (MBPJ) hari ini mengiktiraf sambutan Hari Tanpa Kereta yang diambatkan di bandarbandarnya.
 Datuk Bandarbandarnya, Datuk Mohd. Yusoff Hassan, berkata, inisiatif ini sebagai usaha digerakkan petalings Green City Petaling Jaya.

灵市厅大厦即起实行 等候熄引擎减碳
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10 分钟评比奖励
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More to enjoy community bus service
 It will be extended to other parts of Petaling Jaya, says mayor
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Insentif untuk pengguna kenderaan awam
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家居减碳可扣门牌税
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LEGAL INSTRUMENT GREEN INFRASTRUCTURE

APPROVAL OF DEVELOPMENT PROJECTS WITH "GREEN" ELEMENTS

No.	Conditions Imposed	Total Application 2010 - 2011	Total Application 2012	Application 2013 (Up to Sept)
1	Rain Water Harvesting System (SPAH)	418	117	93
2	Green Building Index (GBI) or other Schemes	61	16	13
3	Sustainable Drainage System (MASMA)	500	148	111
4	Planning Best Practice 2 Hect : 1000 people	10	2	4
5	Landscape Area 10% - 15%	62	26	24
6	LED Lighting (per scheme)	30	27	23
Total		1081	336	268



Design Futures :

Green buildings and infrastructure – potential to reduce energy use, water use and storm water runoff, and produce other benefits, such as improving Indoor Air Quality and supporting locally-sourced materials. Buildings typically account for:

- 72% of electricity consumption,
- 39% of energy use,
- **38% of all carbon dioxide (CO₂) emissions,**
- 40% of raw materials use,
- 30% of waste output (136 million tons annually), and
- 14% of potable water consumption.



PJ Sentral

Developer Puncak Wangi Sdn Bhd

Property Tax Rebate Scheme for Environmental Friendly Houses in Petaling Jaya

1ST LA IN ASIA

Actions

- Application is opened to 100,000 house owners in Petaling Jaya
- Rebate is evaluated by independent assessors based on 6 major criteria, namely energy, water, transportation, biodiversity, waste management and other initiatives



Household Waste Composting



Rain Water harvesting System



Achievements

- Incepted in Year 2011, 49 applications were received in which a total of RM 18,184 was given.
- The First Local Authority in Asia and Second in the World having similar scheme
- Economic incentive rewarding green residents and to spur more local action
- 71 application received in Year 2012 with **Behaviour Change** criteria. A total of RM20,159 was given
- 105 application for Year 2013 (RM32,602)

Free **12** months Parking for hybrid car purchasers from the showroom in Petaling Jaya

122 vehicle owners
(Oct 2013)



Free Parking For Hybrid Car Owners in PJ Scheme

PROGRAM PEMASANGAN LAMPU LED DI LORONG BELAKANG RUMAH

(1) LED saves electricity. It uses 90% less energy than incandescent.

(2) LED lighting instantly achieves full brightness with no warm up time.

(3) LED lighting does not contain mercury.

(4) LED lighting does not produce any ultraviolet (UV) light or IR Radiation.

(5) LED lighting save on lamp replacement thus lower maintenance costs.

(6) LED lighting increases safety and security.

(7) LED lights lasts longer up to 50,000 hours.

(8) LED lights produced 500% more light per Watt.



**LED Lights - The Future of Lighting
Go Green with LEDs!!!**

No	Specifications	Conventional	LED
1	Electricity Tariff	RM 0.312	RM 0.312
2	Operation Hour per Day	12 hour	12 hour
3	Operation Hour per year	4,380 W	4,380 W
4	Electricity consumption per year	188.34 kW	56.94 kW
5	Cost	RM 58.77	RM 17.77



**Installation of LED Lightings at the
Back Lane of Houses since 2012**

**103
houses**

Recognition

- Sustainable Community Award since 2002
- “Tokoh Hijau” Award since 2011

KERATAN AKHBAR

THE STAR
Number: 2 (Metro)
MSinet: 2 1 NOV 2011
Tarikh: 2 1 NOV 2011

Recognised for their green contribution

By TAN KARR WEI
karrwei@thestar.com.my

GETTING the support of residents of the Taman Dato Harun PRMS Flats in Petaling Jaya to take an interest in the community is not an easy task but its Wokun Tefangga chairman, Ismail Lambi, 51, is not about to give up.

“It takes a lot to convince the



MAJLIS BANDARAYA PETALING JAYA
2012/2013
Gurmit menerima Anugerah Tokoh Hijau 2012/2013.

ti and deputy mayor Puzza Md Taib (9th from left) with the Green Figure Award.

Justife Group managing director Callie Tai, Sunway University College lecturer Professor Dr Phang Siew Nook and Malaysian Nature Society Selangor branch chairman Gary Phang.

Ruslan said only special merit was awarded this year because the panel of judges felt that the nominees had to have a wider scope in terms of environmental contribution.

Friends of Rusa Damansara/I chairman Jeffrey Phang was other green figure who received special mention award.

Phang championed the go theme of the Rusa Damansara which became a reality last year.

INITIATIVES

- **3R Programme**
 - Cooking oil recycling
 - Computer Recycling
 - Community Recycling Centre
 - Composting of organic waste in Pasar Jalan Othman **(28.8 tonnes since Mac 2013)**
 - **Food Bank**



- **Greenery**

- Tree planting
- Forestry conservation



- **People with Disabilities**

- Technical Meeting of OKU

- **Town Hall Meeting for ALL Development Projects and Budget Planning**

INITIATIVES

- **E-Assessment System**

- Cost saving, CO2 reduction, public convenient
- Risk of non-payment

Item	Quantity	Cost
Assessment Bill issued for each term	215,414	RM 155,464.28
Total Bill issues for Year 2011	430,828	RM 310,928.57
Existing House Owners make payment via e-banking	85,862 (19.9%)	
House Owner paid full amount in the first term	27,994 (6.5%)	
Assumption of 30% house owners agree not to receive bill	129,248	
Saving of cost (RM0.7217 per bill)		RM 93,278.28
Estimated CO2 reduction (0.145 kg CO2 per bill)		18.74 ton CO2

LCCF'S CAPACITY BUILDING PROGRAMMES



**"Talking Rubbish :
No Rubbish (or money);
No Talk"**

**31HB MEI 2012 (KHAMIS), 3.00 PM - 5.00 PM,
BILIK GERAKAN, TINGKAT 1, IBU PEJABAT MBPJ**

PENERAMAH :
Dr. Theng Lee Chong
JICA CONSULTANT ON SOLID WASTE MANAGEMENT

Detaling Jaya Ke Arah Bandaraya Hijau Berkarbon Rendah

**Talks,
Training,
Forum,
Exhibition**

Concluding Remarks

- **21st Century, cities is the sum of a country. A country can do well if cities perform.**
- **Greening the city - Local Authority must lead by example as an entity and for the city**



***OSC MBPJ PIONEERING THE GATEWAY OF DEVELOPMENT
PJ: LOW CARBON GREEN CITY***



THANK YOU

PJ TOWARDS SUSTAINABLE DEVELOPMENT