

3rd International Workshop on UI GreenMetric World University Ranking
"Global Campus Partnership for Sustainable Future"

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CHALLENGES IN TRANSFORMATION INTO GREEN AND SUSTAINABLE CAMPUS: UMP'S EXPERIENCE

Daing Nasir Ibrahim

Vice Chancellor, Universiti Malaysia Pahang
daing@ump.edu.my

www.ump.edu.my

   #UMPMalaysia



INTRODUCTION



**Established on
February 16, 2002**



Gambang & Pekan Campus



**Located on the east coast
state of Pahang**



1,767 staff



**Rainforest endowed with a
wide range of biodiversities
and natural resources**



13,697 students

FOCUS AREA

CHEMICAL ENGINEERING



**MANUFACTURING
ENGINEERING**



**AUTOMOTIVE
ENGINEERING**



**FOCUS
AREAS**

Peninsular Malaysia

**“FINE & SPECIALTY
CHEMICALS”**

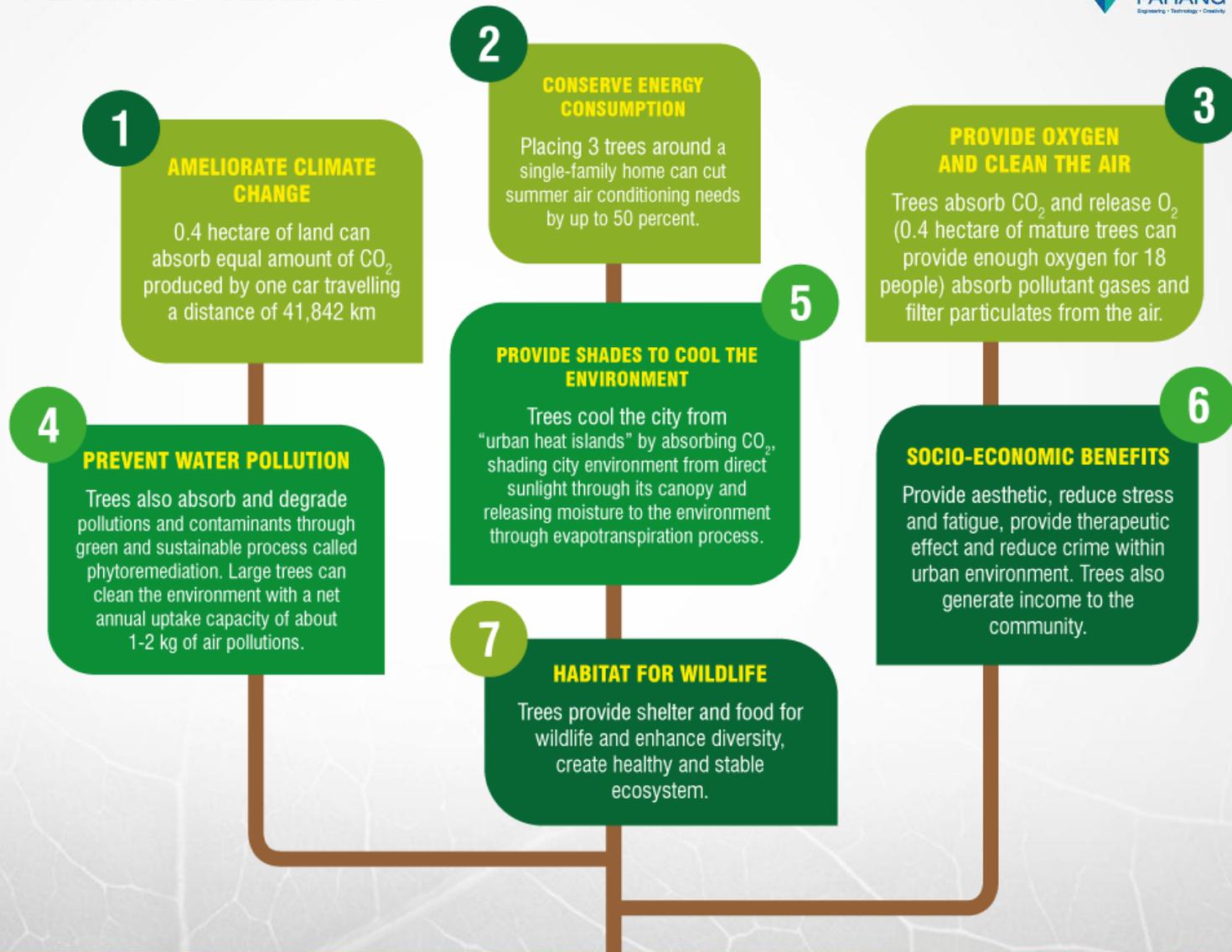


**INDUSTRIAL
BIOTECHNOLOGY**



Competency based technical university specialises in engineering and technology

TREES PLANTING BENEFITS



GREEN & SUSTAINABLE CAMPUS: WHY DOES IT MATTER



UMP'S STRATEGIC PLAN 2016-2020



CHALLENGES TOWARDS GREEN & SUSTAINABLE CAMPUS: SITE CONSTRAINTS

SWAMPY AREA

- Constant water logging
- Poor drainage
- Limit root depth

- Low soil fertility
- Low water retention
- Poor drainage
- High moisture loss
- High salinity

RECLAIMED LAND

MECHANICAL IMPEDANCE

- Low permeability
- Poor water drainage
- Limit root penetration
- Poor root depth



TRANSFORMATION INTO GREEN & SUSTAINABLE CAMPUS: OUR STRATEGIES



INITIATIVES & PROGRAMME



SETTING & INFRASTRUCTURE

- 7% university budget for sustainable effort
- Wind breaker project
- UMP trees planting
- Fruit orchard
- Bio aromatic arboretum
- Greening programme with Pahang Forestry Department
- *Rimbunan Cendekia* greenery programme
- Rare fruits trees arboretum



ENERGY & CLIMATE CHANGE

- Renewable energy usage policy (Bio diesel, Clean biomass, Solar power, Wind power)
- Elements of green building implementation as reflected in all construction and renovation policy
- Green Building



WASTE

- Program to reduce the use of paper and plastic
- Double sided printing policy
- Recycle container
- Recycling program for university waste
- Toxic waste management

INITIATIVES & PROGRAMME



WATER

- Water conservation program implementation (Rain Harvesting System, Ground Water Tank, Lake or Pond)
- Water recycling program



TRANSPORTATION

- Biodiesel using recycling oil
- Bicycle track
- Bicycle and pedestrian policy on campus



EDUCATION

- 20 Students Association related to environment and sustainability
- Collaboration with Sultan Ahmad Shah Environment Trust (SASET)
- Pahang State Forestry Department

COMMUNITIZING TECHNOLOGY





**UI-GREENMETRIC
WORLD
UNIVERSITY
RANKING 2016**

CONGRATULATIONS UMP RANKED

4th IN MALAYSIA

13th IN ASIA

8th IN SOUTHEAST ASIA

58th IN THE WORLD



**Universiti
Malaysia
PAHANG**
Engineering in Sustainability



UI's GreenMetric University Sustainability Ranking (GreenMetric) is a world university ranking for universities to assess and compare campus sustainability efforts. It was launched by Universitas Indonesia in 2010.

1. **Setting and Infrastructure (15%)**
2. **Energy and Climate Change (21%)**
3. **Waste (18%)**
4. **Water (10%)**
5. **Transportation (18%)**
6. **Education (18%)**

Ranking by Indicators

WORLD RANKING	14	Setting & Infrastructure	3	MALAYSIA RANKING
	145	Energy & Climate Change	4	
	284	Waste	6	
	74	Water	2	
	157	Transportation	4	
	23	Education	1	

WAY FORWARD

FIVE YEAR STRATEGIC PLAN (2011-2015)

We have blended campus greening and sustainability in our Five Year Strategic Plan (2011-2015).

FIVE YEAR STRATEGIC PLAN (2016-2020)

This holistic effort is continued and further strengthened in our Strategic Plan 2016-2020 with five thrusts, namely; Academic Excellence, Financial Sustainability, Research and Innovation Sustainability, Socio-Economic and Environmental Sustainability and its own UMP Prime Branding.

RESEARCH

UMP is entrusted with actively frontier research to ensure the long-term sustainability of our beloved country and the world.

EDUCATION

To ensure that all graduates that we train will become new breed of professionals with far-reaching conscience and responsibility to continue the strife and struggle to make the Earth a beautiful and comfortable home to live.

CORPORATE SOCIAL RESPONSIBILITY

**GREEN
SUSTAINABLE
CAMPUS**



Universiti Malaysia Pahang

26600 Pekan, Pahang

Tel : 09-4245000

Faks : 09-4245050

www.ump.edu.my