

Electric Three Wheeler Project

Presented by Dhatusena Senanayake
Of
Lanka Electric Vehicle Association
Sri Lanka



Sri Lanka – a paradise island



Multiethnic island nation of a population of 22 million

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Multiethnic island nation of a population of 22 million



Approximately 4 million school children

But for how long?



Many schools by the roadside....

Paradise - polluted



- 60% of the air pollution in Sri Lanka is caused by motor vehicles
- 4 million vehicles
- 400,000 Two-stroke three wheelers

Comparison of Colombo air quality with new WHO Guidelines

Air Quality Colombo

- PM₁₀ 24hour Mean

98 µg/m³

- SO₂ 24hour Mean

50 µg/m³

WHO Guidelines

- PM₁₀ 24-hour Mean

50 µg/m³

- SO₂ 24-hour Mean

20 µg/m³

(Source: World Health Organization, 2012)

The silent killer...

- Increase in respiratory diseases
- Lung cancer
- Premature death

(Source: Dr.Wijayamuni, 2012)

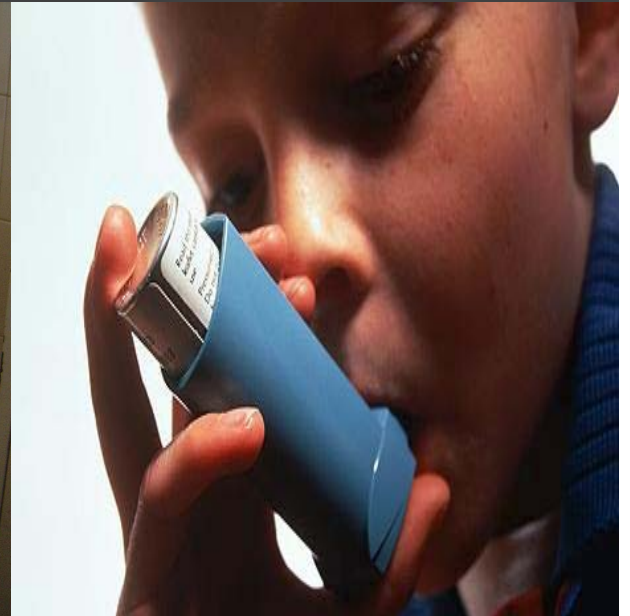


Increased hospital admissions



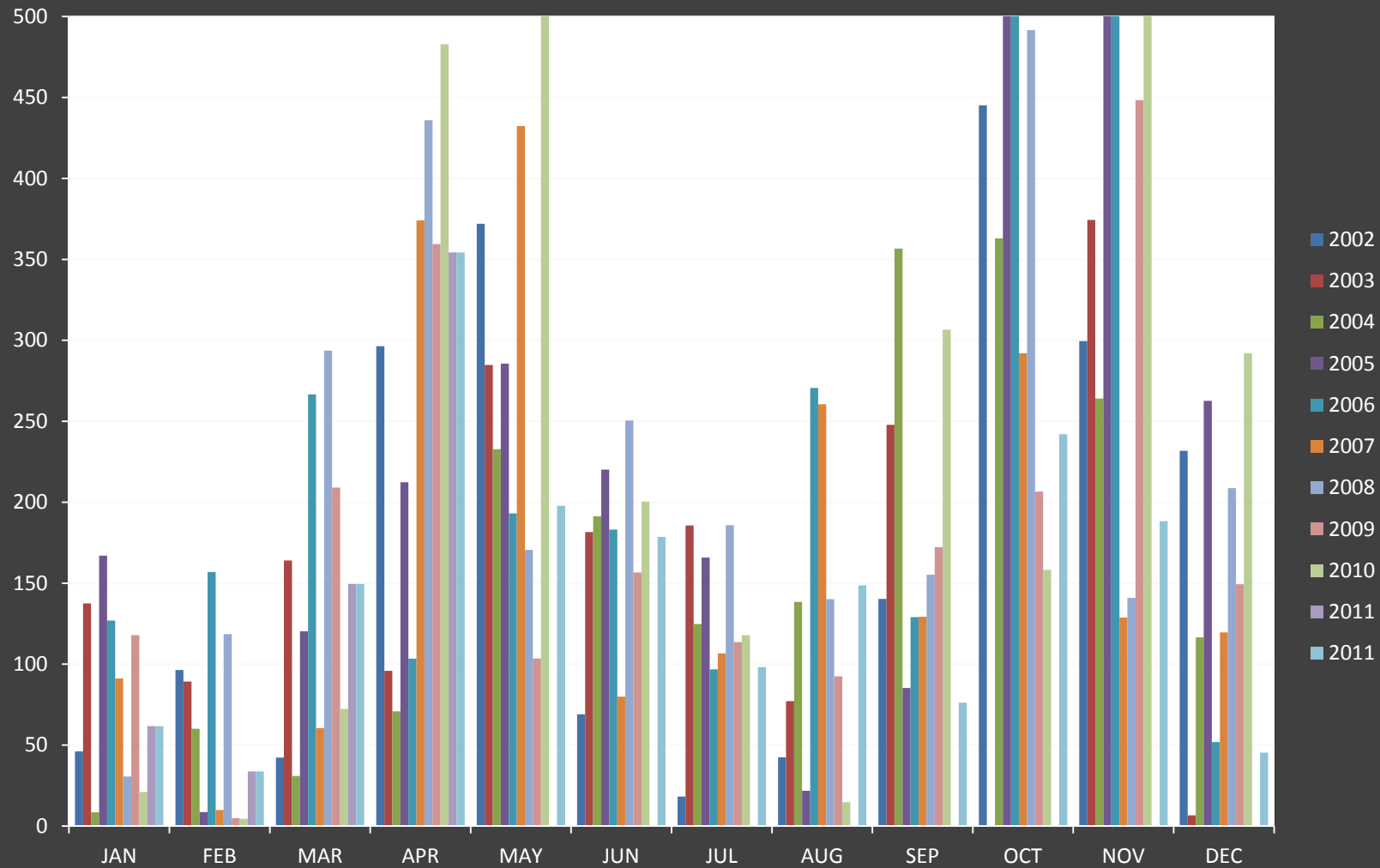
Loss of productivity

Our future - ENDANGERED!



Asthma is on the increase...

Rainfall in Colombo



(Source: Metrological Department of Sri Lanka, 2012)

The Global Warming Crisis



The Global Warming Crisis



Electric Vehicles – To The Rescue!



How it all began...

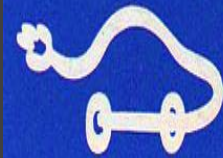
- My six year old daughter started to suffer from asthma a very common condition in our country
- Watching my daughter gasping for breath I told myself I had to do something for less privileged people suffering from the same respiratory disease

Lanka Electric Vehicle Association

Pioneer in introducing Electric Vehicles to Sri Lanka



Who are we?



Lanka Electric Vehicle Association

- A non-profit making organization established in 2003
- Vision: To positively impact the environment and the economy
- Mission: Raising awareness amongst the public of an alternate mode of transport

Who made this possible?



The Journey...

Stage 1: Chassis



Obstacles...

- Policy barriers whilst clearing the chassis as there was no HS code in the customs ordinance for Electric Vehicles

Overcome by: Approaching the Director of Physical Policy

- Motor traffic act had no provision for registering Electric Vehicle's, thus barring the vehicle from being driven on the roads legally



Overcome by: Approaching the Ministry of Transport



The first electrical vehicle to be registered in Sri Lanka



- Range – 75km per charge
- Max speed – 45 km/hr
- Carrying capacity – 8 passengers
- Motor – 5.46 kw series wound DC
- 7-8 hours to re-charge battery

**Seminar organized by
Lanka Electric Vehicle Association
and
The Ministry of Urban Development**

அறிவிக்கிறேன்.

**மிகவும் கவனம் !
வளி மாசடைதல்**

**அஸ்திமா நோய்க்கும்
மற்று நோய்க்கும்
காரணியாகும்.**

**BE AWARE
AIR POLLUTION**

**Causes: Bronchial Asthma!
and Cancer.**



Clean Air SL



The Air Foundation





Stage2: Demonstration Project



Obstacle: Marketing to public
Overcome by: provision for recharging the batteries

Stage 3: Electric Vehicle with a Soft Top



**Paving a way to a cleaner-greener
Sri Lanka!**

Tourism – Going Green...



Ulagalla Resort - Anuradhapura, Sri Lanka

The Green Way Forward!



Vil Uyana Resort - Sigiriya, Sri Lanka

Stafford Motor Co (Pvt) Ltd introduces it's **Honda Insight (Hybrid)**



Viny Trading (Pvt) Ltd's Electric Hybrid Motorcycles





The Next Milestone

Bus Rapid Transit Pre-feasibility Study, Colombo - Sri Lanka



* Janmarg, Bus Rapid Transport in Ahmedabad, India (Photo Credit: Madhav Pal, EMBARQ)

Pre-feasibility Study for Bus Rapid Transit

Sri Lanka, Colombo

Prepared by
EMBARQ, the WRI Center for Sustainable Transport

Lets Save Our Planet!



Thank you for listening.