



2015

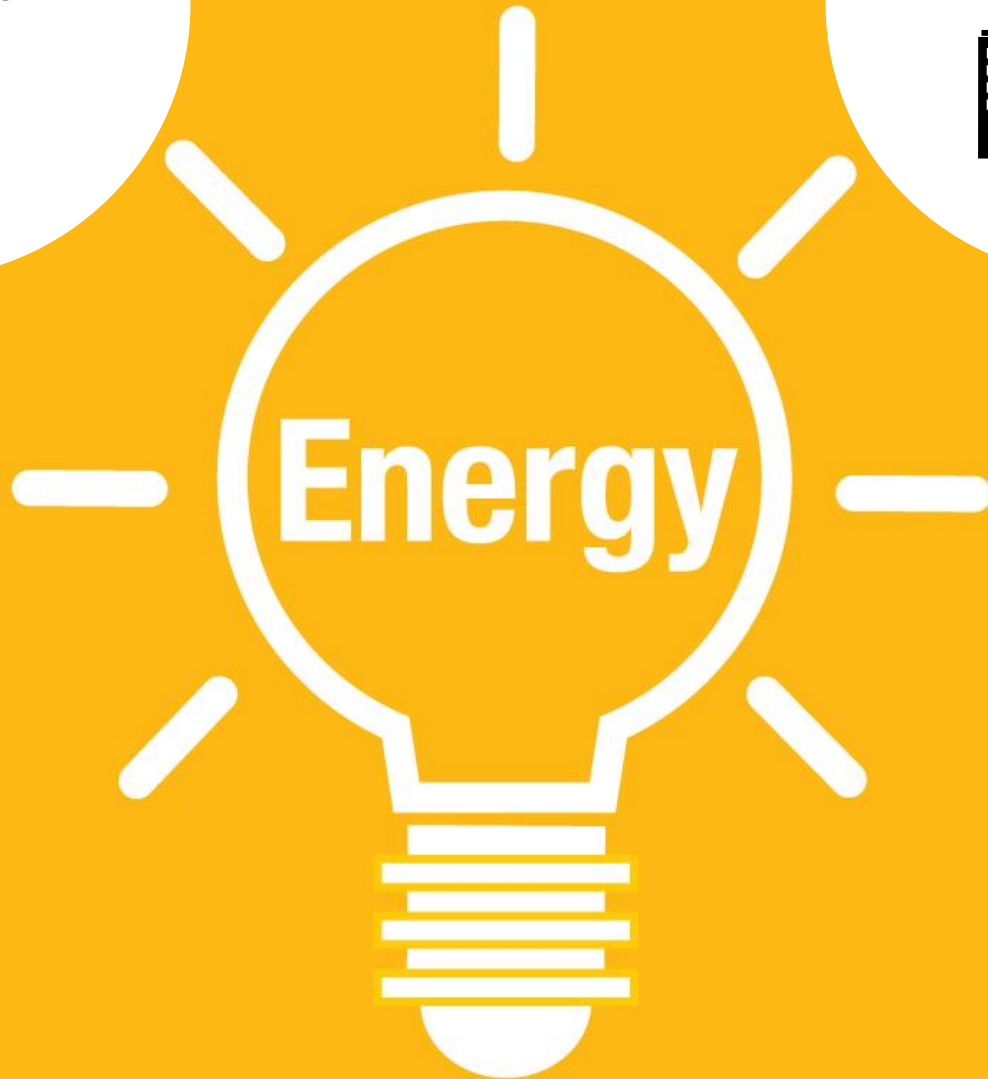
**Electricity
Supply**



**Energy
Efficiency**



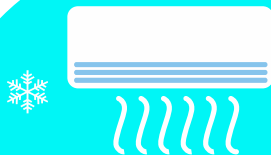
Energy



Electricity Efficiency + Green Building



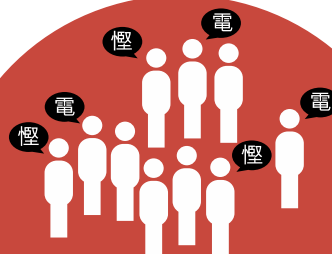
Energy
Labelling



District
Cooling



Green
Building



Community
Involvement

**Steering Committee for Promotion of Green Building
sets overall vision for promoting green building**



**Coordinate
Bureaux and
Departments**
in reviewing the
green building policy
on Government
buildings

**Pursue
a low-carbon
livable built
environment**

**Strengthen
cooperation with relevant
organisations &
public-private
partnership**
to reduce total electricity
demand in HK

Electricity Efficiency + Green Building



Reduce
the electricity
consumption of
Government
buildings in the
next 5 years

↓ 5%

New Target:

Taking comparable
operating conditions
in the financial year
of 2013-14 as the
baseline

Up till 2013/14,
the Government
has already met
the 5% electricity
saving target in
the last five years.



Electricity Supply

Reliability

Environmental
performance

Safety

Affordability

Electricity Market Review

Plan to consult the public in the **first half of 2015** and announce the outcome of the **fuel mix** public consultation and the way forward

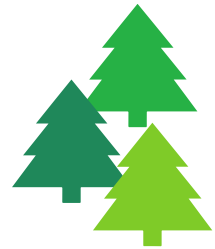
- Current Scheme of Control Agreements will expire in 2018
- Conducting a review on the future development of the electricity market and the regulatory framework
- Will ensure that electricity supply will meet the energy policy objectives, and pay due regard to the goal to introduce competition to the electricity market



Nature Conservation



Biodiversity



**Country
Parks**



**Marine
Park**

Biodiversity Strategy and Action Plan

Formulate the **first** “Biodiversity Strategy and Action Plan” for **Hong Kong** in end 2015



Nature/Countryside Conservation

Countryside

Proactively work with
NGOs to create synergy to
**Protect
the countryside**

Waters around Brothers Islands :

Marine Park

Commence the statutory procedures
at the end of this year

Country Park

Establish and implement
Sai Wan Management Plan
**Manage with an
innovative mindset**

Continue to assess the suitability
of incorporating **enclaves**
into country parks

Water Quality



Water Quality of Victoria Harbour

An aerial photograph of Victoria Harbour in Hong Kong. The water is a deep blue, and the skyline is filled with numerous skyscrapers and buildings. The harbour is surrounded by green hills, and several boats are visible in the water.

Urban Coastal Water Quality Study

**Study coastal water quality
& pollution sources**

**Harbour Area
Treatment Scheme**

Stage 2A to be completed
this year, water quality will
improve further

for devising improvement plans and
schedules, to enhance in the long term
the leisure and recreational values of
the urban coastline of the Victoria
Harbour

Water Quality of Victoria Harbour

Possible recreation locations

West Kowloon

Central / Wanchai



Water Friendly Culture

Better Use of Victoria Harbour and the Wider Marine Waters

Environment
Bureau
to improve
water
quality

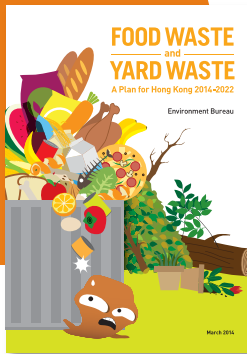
Bureaux and
departments concerned
to explore setting up
water sports at the
**coastline of
West Kowloon,
Wanchai and
Central**

**Beyond the
Victoria Harbour**
Identify desirable
locations to build
new water sports
centres



Resources

Resources



HONG KONG BLUEPRINT FOR SUSTAINABLE USE OF RESOURCES 2013 – 2022

Environment Bureau



**Reduction at
Source**



Food Wise



**Clean
Recycling**



**Waste to
Energy**

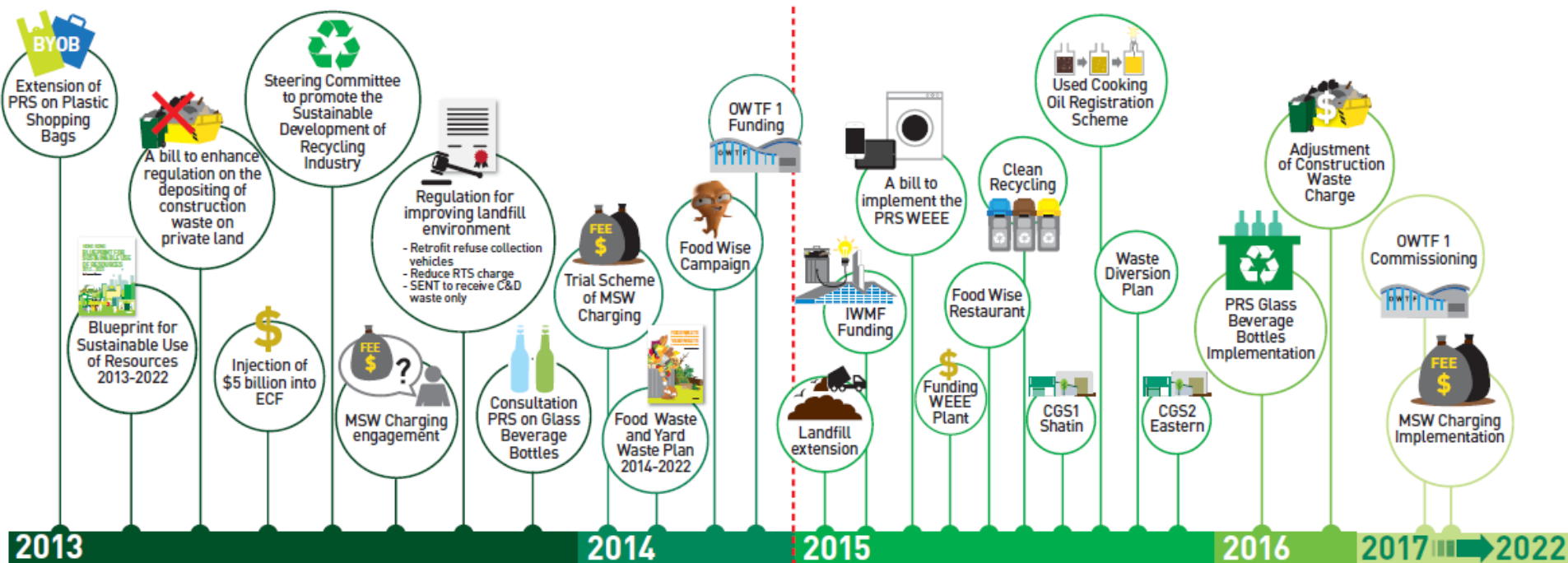


**Hygienic Waste
Transport &
Landfilling**

**Sustainable Use of Resources
Five-pronged Approach
10-year Reduction Target**

-40%






Blueprint for Sustainable Use of Resources



Recycling Fund

Full implementation
of **Plastic Shopping
Bags Charging**

Reduction at Source

	Municipal solid waste charging 	Construction waste charging 	Plastic shopping bags 	Electrical and electronic equipment 	Glass beverage bottles 
Completed	Council for Sustainable Development (SDC) submitted recommendations		LegCo approved new laws for full implementation of PSB charging		
Underway	Following up SDC recommendations through an inter-departmental working group	Charging level under review	Publicity and public education	Seeking funding approval for treatment and recycling facility	Extensively extending collection network
Next Step @2015	To submit framework proposal to LegCo (early 2015)	To report review findings to LegCo within 2015	To take effect on 1 April 2015	To introduce amendment bill within 2015	To commence law drafting shortly

Food Wise

Nearly **400** trade organisations, NGOs and government departments signed the Food Wise Charter. Some restaurants reduced their food waste by an average of **15%** or more last year.

To further promote food wise culture, Government will launch **“Food Wise Eateries”** scheme to promote restaurants to offer **portioned meal**

Approve **over \$10 millions** for NGOs to collect **800 tonnes** of edible food for redistribution to those in need



Clean Recycling

Promotes the recycling industry to enhance operational standards
and to provide training on occupational safety, etc

Expands green products on procurement List
and researches into wider use of recycled and other green materials in public works projects

Mobile App “Waste Less”
covers 7000 recyclable collection points

“Community Green Stations”
11 projects being implemented by phases; continued site search/ planning for 7 other projects

Recycling Fund
is expected to accept application in 2015

To form
Working Group on “Clean Recycling”

Waste to Energy



Contract for the 1st **organic waste treatment facility** commenced in Dec 2014



When the **Sludge Treatment Facility** is fully operational, a maximum of 2MW of surplus power is estimated to be generated

About 27,000 cubic metres per hour of **landfill gas** are collected



Integrated waste management facility phase 1 project approved and to be commissioned around 2022-23



Hygienic Waste Transport & Landfilling

Complete a subsidy scheme to retrofit **refuse collection vehicles** to become fully enclosed



Implement a waste diversion plan to support the designation of the **SENT Landfill in Tseung Kwan O** to receive only **construction waste** in future.

Legislate the reduction of usage fees of some refuse transfer stations to encourage the trade to utilize the existing **waste transfer network**.

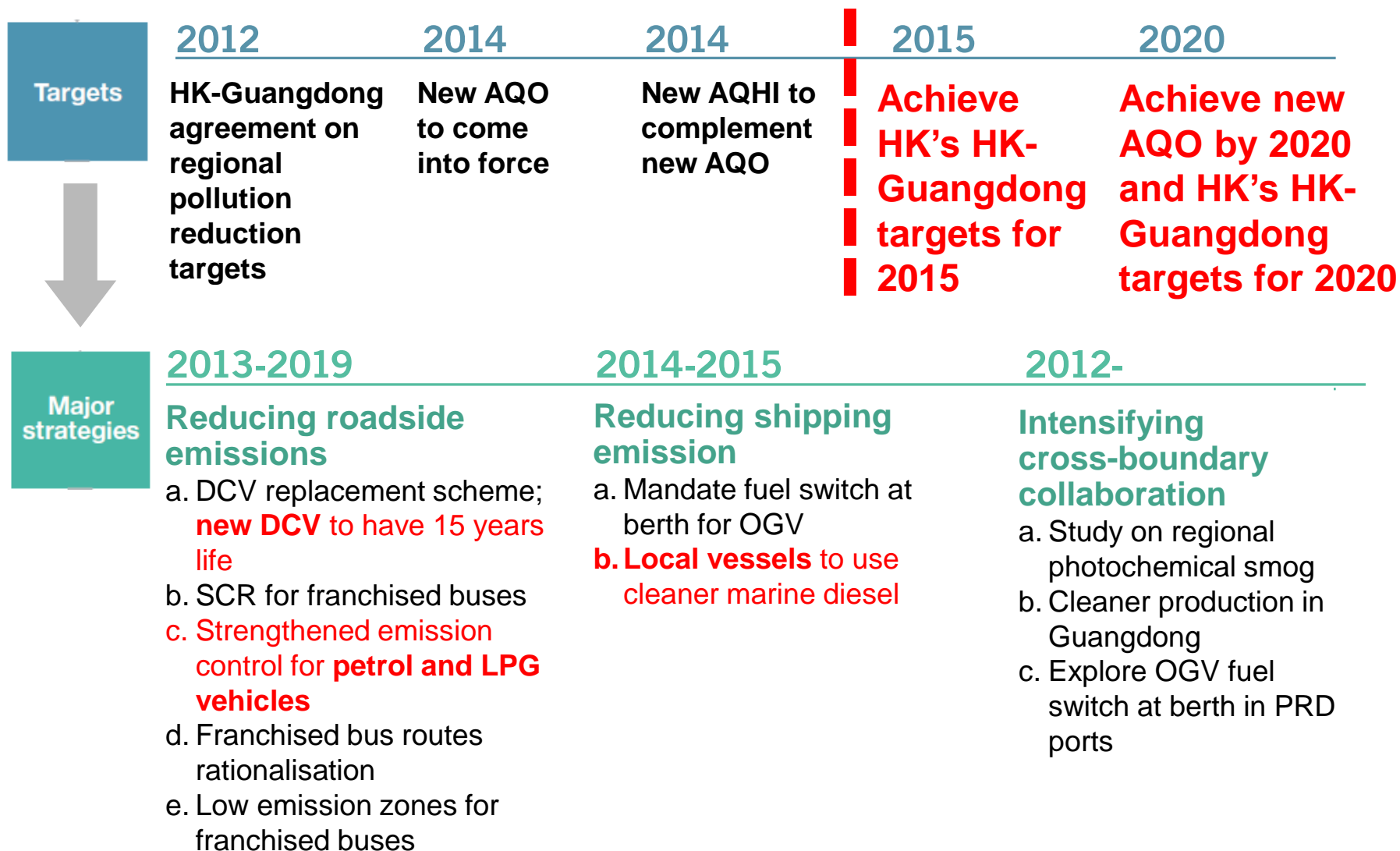
Extension of **SENT and NENT landfills**, and study for **WENT landfill** extension.





Air

Timeline of Clean Air Plan



Air Quality Monitoring Results from 2010 to 2014

Overall continual improvements have been shown

Station		2010	2011	2012	2013	2014	2010/2014 Comparison (%)
Respirable Suspended Particulates (RSP)	General	45	48	42	47	43	-4%
	Roadside	60	61	53	57	50	-17%
Nitrogen Oxides (NO _x)	General	94	91	90	94	84	-11%
	Roadside	318	326	312	321	250	-21%
Nitrogen Dioxide (NO ₂)	General	52	53	51	54	49	-6%
	Roadside	117	122	118	120	102	-13%
Sulphur Dioxide (SO ₂)	General	12	13	11	13	11	-8%
	Roadside	10	12	10	11	9	-10%
Ozone (O ₃)	General	39	41	40	43	46	18%
	Roadside	n/a	13	15	14	21	n/a
Fine Suspended Particulates (FSP)	General	n/a	33	28	31	29	n/a
	Roadside	n/a	38	36	37	33	n/a
Carbon Monoxide (CO)	General	693	669	733	746	634	-9%
	Roadside	1066	955	1010	923	849	-20%

Ozone, mainly affected by regional pollution, has increased 18% in the same period though.

Reduce local emissions



Marine Vessels

Mandate ocean going vessels to switch to low-sulphur fuel while berthing in HK waters

→ **will soon submit new regulation to LegCo**

Install onshore power supply at Kai Tak Cruise Terminal

→ **will chart the way forward having regard to findings of technical feasibility study**



Power Plants

Further tightening the emission allowances for electricity generation in 2019 and beyond

→ **legislative process completed last year**



Non-road mobile machinery

To set statutory emission standard for machinery for sale or use in HK

→ **will soon submit new regulation to LegCo**

Reduce local emissions



Franchised Bus

Low Emission Zones (LEZ):

**Causeway Bay, Central and Mong Kok
by end 2015**

→ Franchised bus companies to deploy
only **Euro 4 or better buses** on routes



**By end 2019
whole of HK
will be LEZ as
all 82,000
Pre-Euro, Euro 1,
2 & 3 DCVs
will have been
replaced**

Reduce local emissions



Vehicles

Phasing Out pre-Euro IV diesel commercial vehicles (DCV)

→ As of end 2014, about 21,000 or **25%** of the eligible pre-Euro IV DCV had participated in the ex-gratia payment scheme and retired

Strengthened Emission Control of petrol and LPG vehicles

→ From 1 Sep 2014, deploy remote sensing equipment at roadsides to detect petrol and LPG vehicles with excessive emission

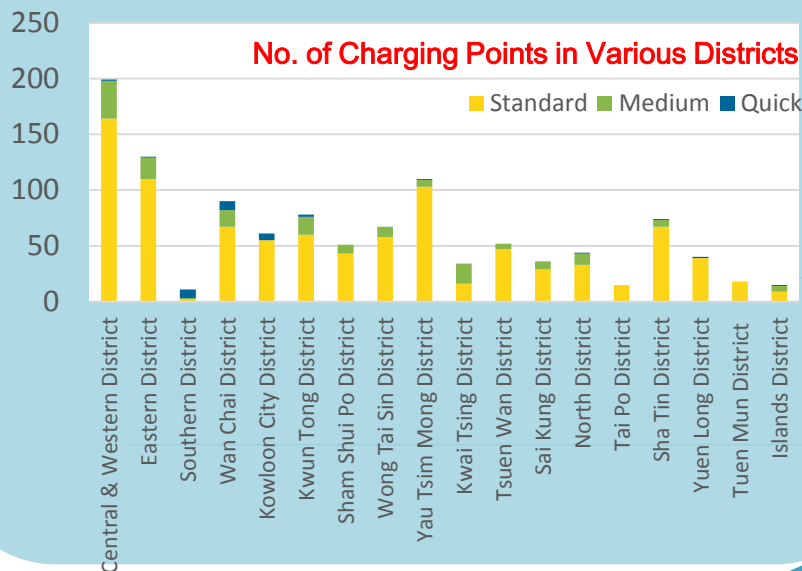
Promote the use of electric vehicles (EVs)

- Enable electric taxi (e-taxi) suppliers to set up quick chargers for e-taxis in government car parks administered by the Transport Department
- Continue to procure more EVs, currently more than 220 EVs in the government fleet

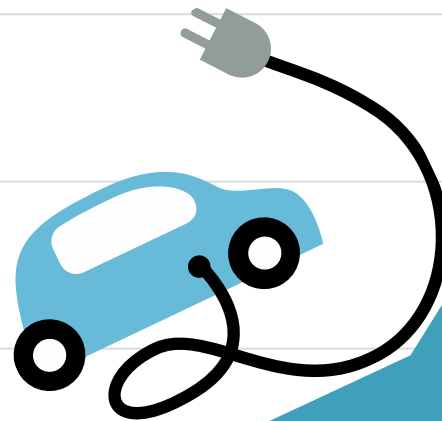
Electric Vehicles

Promote EVs

- Government procurement (220 Evs)
- Single decked buses trial 2015
- E-taxi suppliers to set up quick chargers in government car parks
- More charging facilities



■ Number of Electric Vehicles



1,200+ Evs
>40-fold increase
compared with 5 years ago

2009/12

2010/12

2011/12

2012/12

2013/12

2014/11

Air



Reduce Local Emissions



Enhance Public Education



Cross-boundary Collaboration

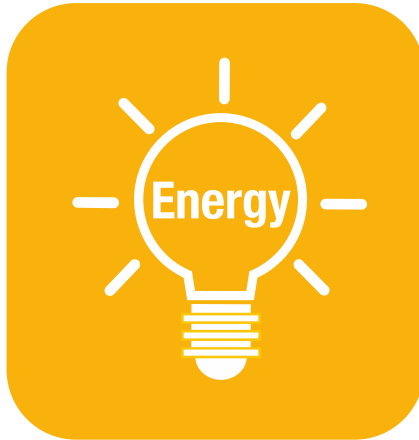
Earmarked
\$150 million to
commence a new phase of
**the Cleaner Production
Partnership Programme**
2015-2020

A CLEAN AIR PLAN FOR HONG KONG

Environment Bureau in collaboration with
Transport & Housing Bureau
Food & Health Bureau
Development Bureau



March 2013



Thank
you