Lighting for more with less (a) BEC

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CIE (Hong Kong) 6th International Lighting Symposium 2015

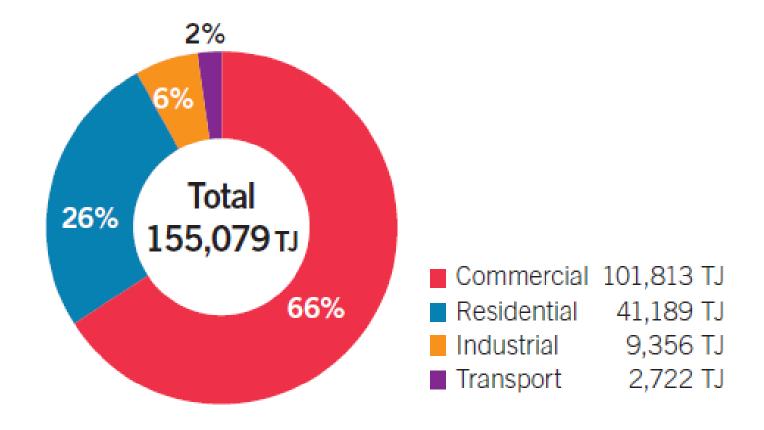
Lighting
Development and
Application
-The Next Direction



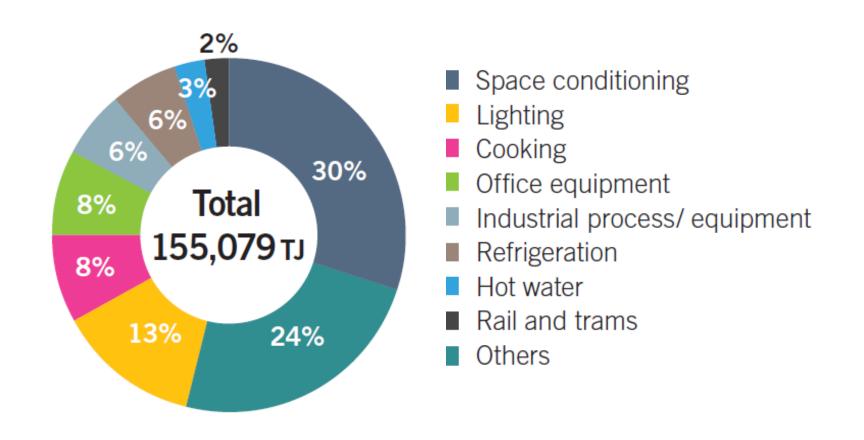




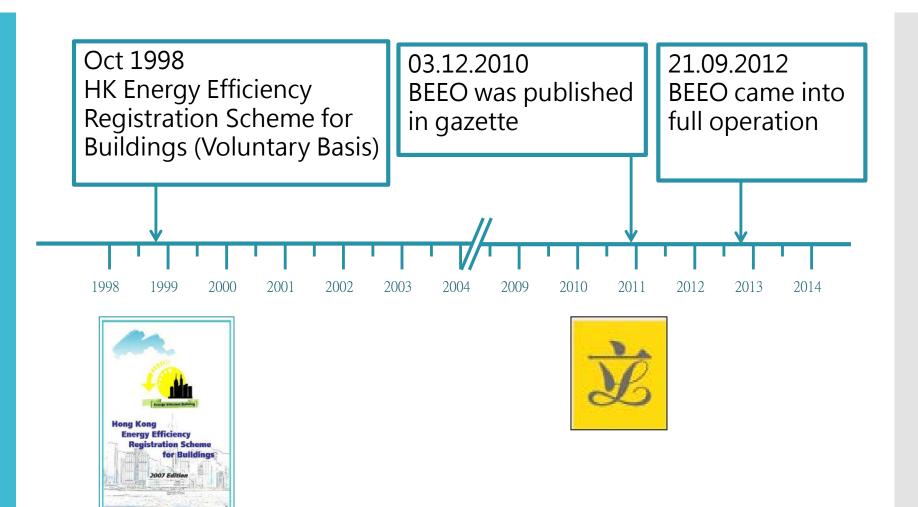


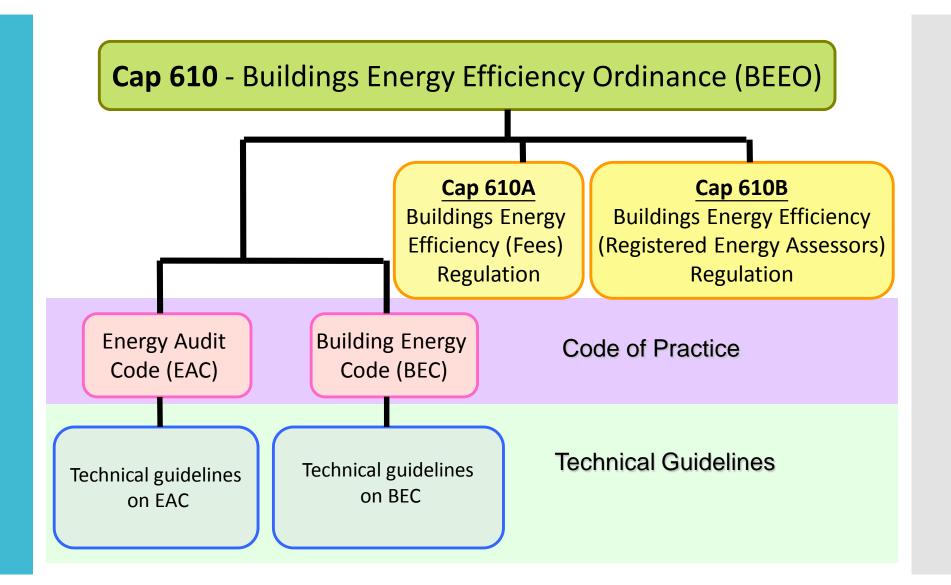


Electricity consumption by sector, 2012

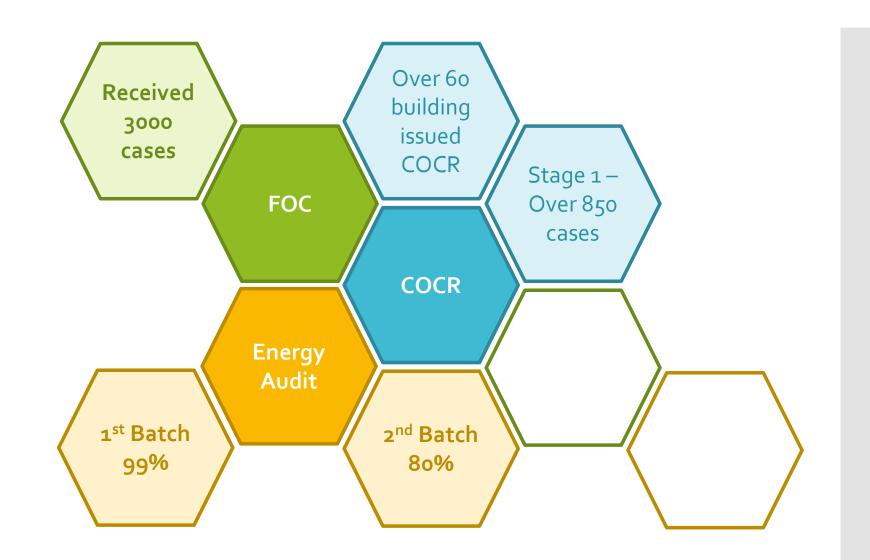


End-uses of electricity in Hong Kong, 2012









Recorded Cases up to Aug-2015







個案(1) - 采葉庭 安裝或更換設備

樓層大堂 -- 普通燈胆轉為慳電胆,平均節省達4倍 (例如由60w普通燈胆轉為13w慳電胆)



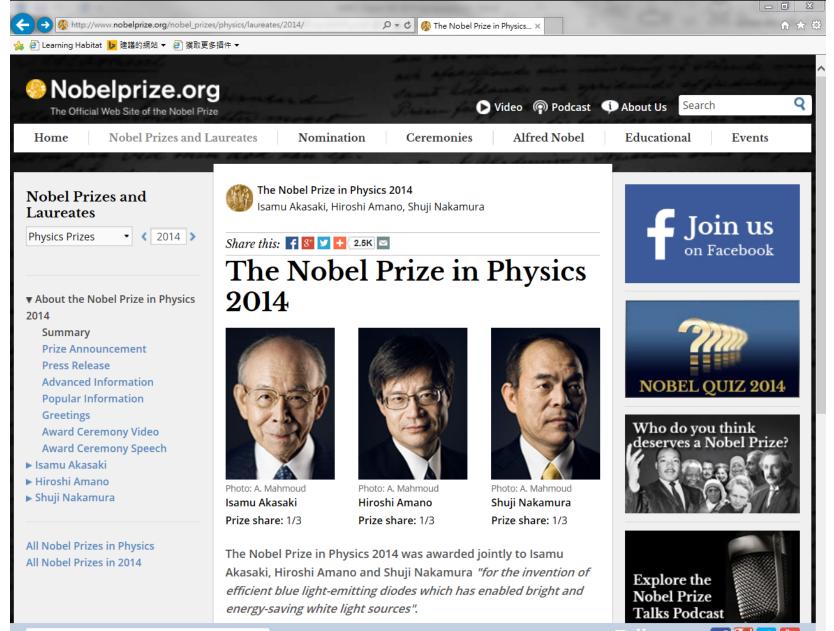
Presentation Powerpoint "<u>能源節約(電力)個案分享</u>" by Hong Yip Service Company Ltd. for Energy Efficiency and Conservation in Experience Sharing Workshop 2004 organized by EMSD





Presentation Powerpoint "Energy Efficiency and Conservation in Hong Kong Squash Centre" by EMSD for Energy Efficiency and Conservation in Experience Sharing Workshop 2004 organized by EMSD





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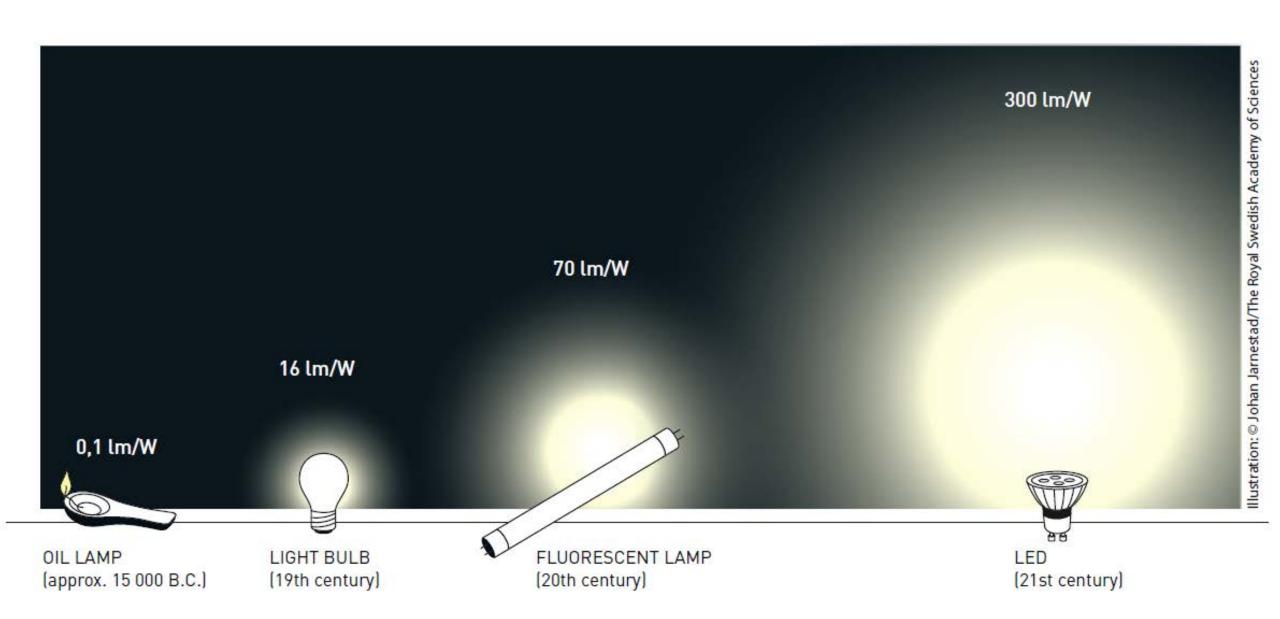
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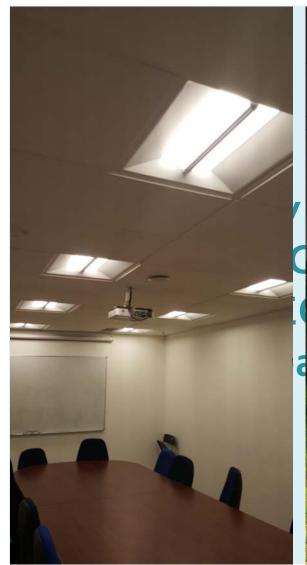




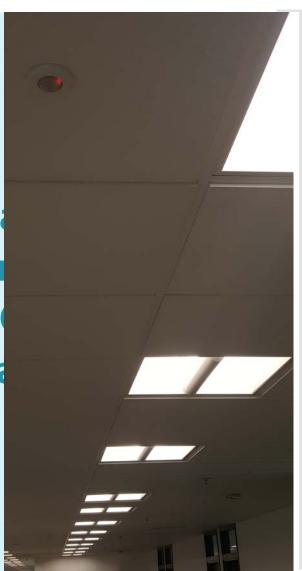






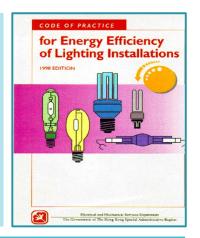




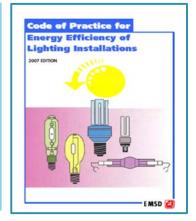




1998 Edition Office 25W/m2 2005 Edition
Office 23W/m2
Corridor 15W/m2

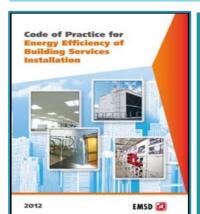


2007 Edition
Office 17W/m2



2012 Edition

Office 15W/m2 Corridor 10W/m2



2012 Edition - Rev 1

Office 13W/m2 Corridor 8W/m2 2015 Edition

?



3. BEC Review

Tighten exemption criterion on the lighting power density (LPD) requirement

Add and further tighten LPD requirement for certain types of spaces.

Extend the requirement of lighting control point to cover all spaces.

New - automatic lighting control to dim down or shut off the lighting automatically.

New - provision of daylight responsive control to dim down or shut off the lighting automatically for space with fenestrations or overhead skylight.



3.
BEC Review –
Automatic
Lighting
Control









3.
BEC Review –
Occupancy
Sensor

Plenty Choice of Occupancy Sensor









3. BEC Review – Timer

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	August 12th	August 13th	August 14th	August 15th	August 16th	August 17th
8:00 AM		B eakfast	D eakfast	B eakfast	D eakfast	B eakfast
8:30 AM		C esta-	Cress and	C 000-	Solo H	Sed H
9:00 AM		Wee et CS				
9:30 AM		& Fac t Pese ta s	P g amm ng Lab	P g amm ng Lab	P g amm ng Lab 33 dad H	P g amm ng Lab
10:00 AM		W				
10:30 AM						
11:00 AM		P g amm ng kab		Focu Speake s		Fac t Speake s
11:30 AM		230 Ka 16	Lu gh w th	44		W
12:00 PM			Unde ad Ment			Lunch W
12:30 PM		Lungh with	W	St dent Pane		***
1:00 PM		Unde g ad Ment		W		Eve uat n
1:30 PM		AA	P g amm ng Lab		Een Γ ane se	200000000000000000000000000000000000000
2:00 PM		Focu & eake	SIDE H		FedV p	
2:30 PM		Lab Y u				P g amm ng kala
3:00 PM		Banco F Co		M ve nt		329 Sed 14
3:30 PM	Check t U 1D s		L'est sa	Se Yen Husng		
4:00 PM	FEA	P g amm ng Lab	Eng ee glab			Facu t Speake
4:30 PM	265 C II A k CA	200 for 11				E.
5:00 PM	B) 258		clust			C s ng Ce e ny
5:30 PM			Pese ta s			W
6:00 PM			100			
6:30 PM	Γa We∈ e	D rine C anti-	D	Dinne C asb		
7:00 PM	D e & G est Speake		D nre			
7:30 PM	W					

8:00 PM





Use of Daylight is NOT New Idea



Captured from Reflections on the Last One Hundred Years of Lighting in Great Britain, The Society of Light and Lighting



Workplace under Skylight





Meeting Room adjacent to Roof Garden

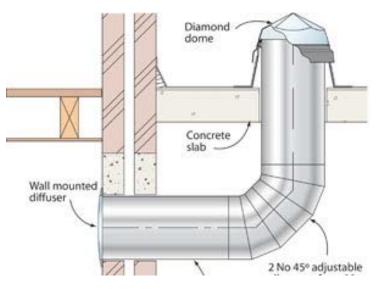




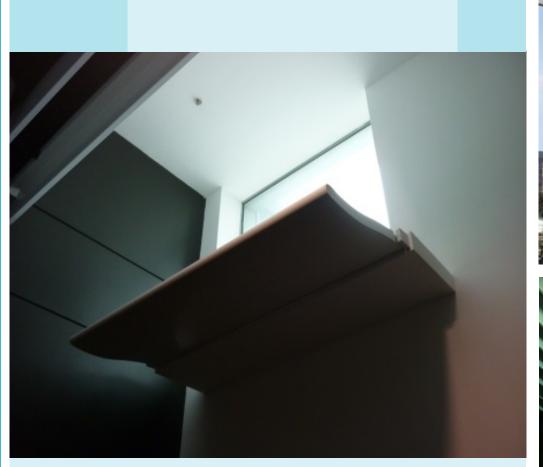
Corridor properly lit up by Sunpipes

Roof top domes of Sunpipes









Corridor properly lit up by Sunpipes







