

Exploring Trends, Challenges & Opportunities: Energy For Our Future Generations

Welcoming Remarks

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Review Trends, Challenges and Opportunities: Energy of Our Past Generations



Trend: Fossil Fuels > 85%

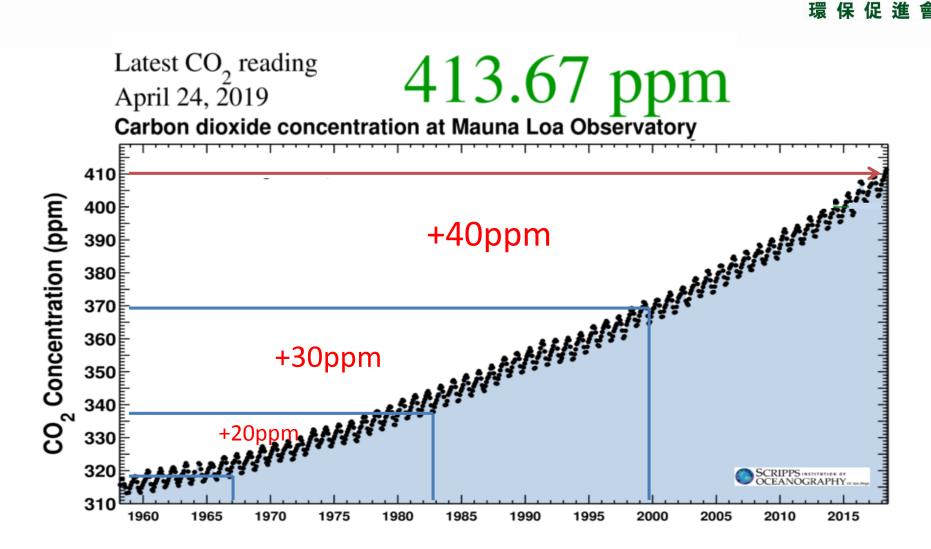


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Shares of Primary Energy 50% 45% 40% 35% 30% 25% 20% 15% 10% 5% 0% 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 Coal Nuclear — Hydro Renewable Oil Gas

Source: BP Statistical Review 2016. BP Enerav Outlook 2016

Trend: CO₂ concentration accelerating



Source : CO₂ Earth https://www.co2.earth/co2-acceleration

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Challenge: fossil fuels still scarce?

Energy crisis has never came close since 1970s!

Proved Reserves	1997	2017	Change
Coal (Billion Ton)	1,106	1,035	-6.4%
Oil (Billion BBL)	1,162	1,697	+46%
Gas (Trillion Cubic Meters)	128	194	+52%

Source: BP's Statistical Review of World Energy 2018

Population (Billion)	5.91	7.55	+ 28%

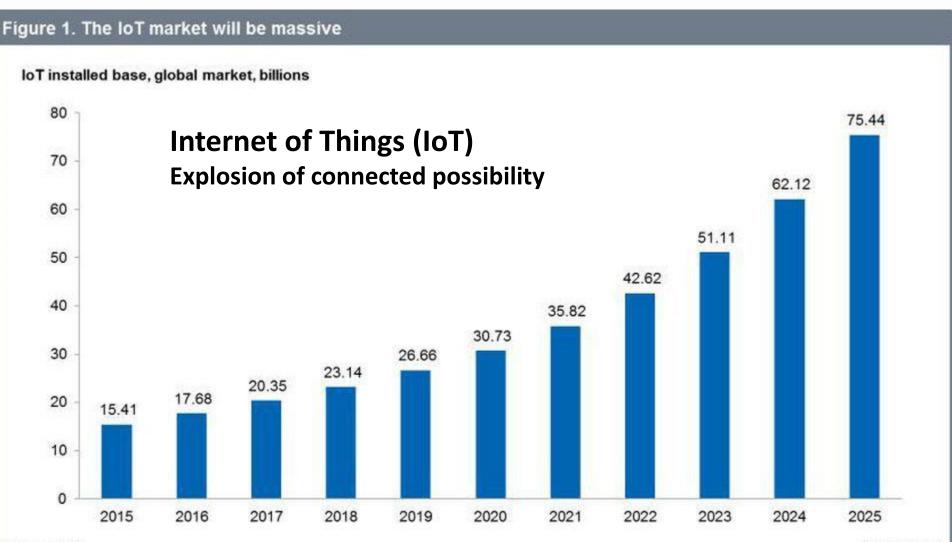
Challenge: innovation continue!





Challenge & Opportunity: Internet of standby e-device

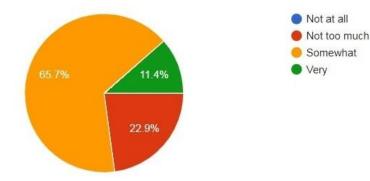




Source: IHS

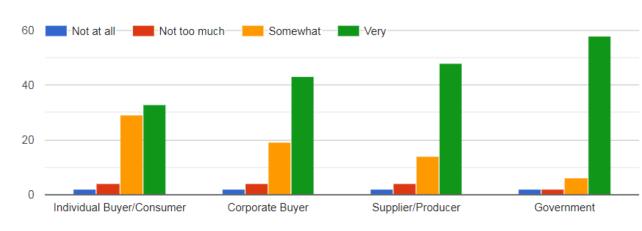
Opportunity & Challenge: People Awareness

2. Have you changed your behavior for mitigating climate change?



53% individuals very concerned about climate change, 11% fully changed behavior

4. Who should be responsible for solving climate change problem?



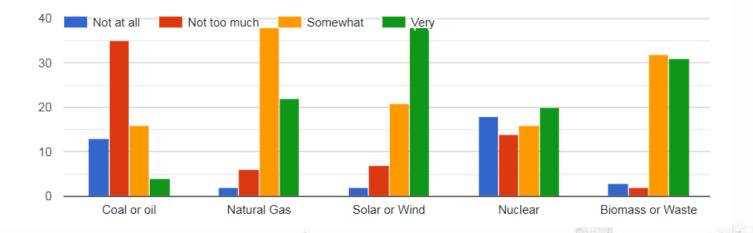
Most Responsible 1st: Government 2nd: Supplier/Producer 3rd: Corporate Buyer 4th: Individual Buyer/ Consumer





Opportunity: Clean Energy in HK

6. The fuel mix for electricity generation should consider cost, supply reliability, availability and sustainability. How would you consider the following sources of energy for Hong Kong?

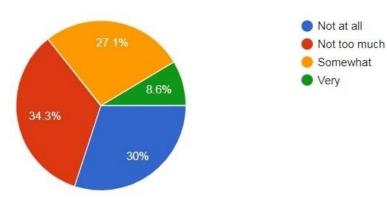


Support: Natural Gas, Solar or Wind, Biomass or Waste Not so support: Coal or oil Almost indifferent: Nuclear

Challenge: Supply of Solar Energy in HK

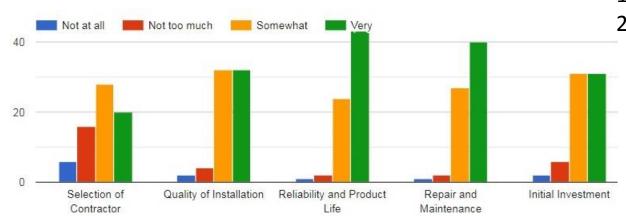


8. Have you considered to install solar panel?



8.6% has highly considered

9. How would you consider the following barrier in investing solar panel?



Top 2 barriers:

- 1. Reliability & Product Life
- 2. Repair & Maintenance

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Opportunity: Efficiency







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How about Trends, Challenges & Opportunities: Energy For Our Future Generations



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