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### THE BUSINESS TIMES

## The business case for sustainable design

undtable participants:

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- Ernie Koh, president, Singapore Furniture Industry Council (SFIC)
- Vincent Poon, vice-president, enterprise services and integration operations, OPUS IT Services Pte Ltd
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CLIMATE change and environmental degradation have become pressing issues, especially after the fallout from the haze that shrouded large parts of South-east Asia recently. Much of this recurring hazard boils down to sometimes, indiscriminate expansion by. times indiscriminate expansion by big business and poor environmental practices adopted by a long list of

practices adopted by a long list of players in their supply chains. So how can businesses today bal-ance their commercial pursuits with socially responsible practices? One way to address this is through sustainable design. The Design Busi-ness. Chamber of Singance (DBCS)

ness Chamber of Singapore (DBCS) has launched the new SG Mark 2016 -Green Business Design Award to en-courage companies to tread the green

The Business Times and DBCS recently brought together champions of sustainability to discuss sustaina-ble design for today's business.

Q: What is sustainable design? SFIC: Sustainable design reduces or eliminates negative environmental impact through thoughtful design. It impact through thoughtful design. It can be applied across all fields of design such as buildings or products to achieve environmental outcomes such as lower energy and water consumption through the entire product life cycle – from manufacture, daily use to eventual disposal; reduced greenhouse gas emissions and use non-toxic materials that contribute to non-toxic materials that contribute to the health and well-being of the com-

OPUS: The concept is not limited to waste reduction or lowering the car-bon footprint and environmental

bon footprint and environmental damage through saving or preservation of resources. It also extends to long-term sustainable investments before any benefits can be attained.
CDL: for the building sector, beyond creating eco-friendly physical spaces and developments, sustainable design is also about inspiring eco-lifestyles. As part of CDL's ethos to "conserve as we construct" for over a derserve as we construct for over a derserve as we construct" for over a dec-ade, we have been investing 2-5 per



"Businesses that adopt sustainable design can achieve savings from more eco-friendly and efficient use of resources. Between 2008 and 2014, CDL achieved S\$36.5 million worth of savings in annual electricity consumption from our Green Mark buildings. quote.



SUTD: Sustainable design is a con scious and concerted effort to r scious and concerted effort to respon-sibly use resources such as energy, water, materials, and human capital at the global, regional and communi-ty levels to create innovative solu-tions to opportunities and problems.

# Q: How can sustainable design be useful for businesses? What is the typical return on investment for sustainable design?

sustainable design?

SFIC: Many global furniture and furnishing companies that have embraced sustainable design are financially outperforming their peers. More than one-third of companies, including likea, have reported a 23 per cent increase year on year, according to a study in 2013 by the Massachusetts institute of Technology (MIT) and the Boston Consulting Group.

OPUS: The common myth is that susopus: The common myth is that sustainable design often involves high investment or running costs. This may be valid in some cases, but the in-

verse is also true.



"Many global furniture and furnishing companies that have embraced sustainable design are financially outperforming their peers. More than one-third of companies, including Ikea, have reported a 23 per cent increase year on year, according to a study in 2013...



CDL: Businesses that adopt sustaina ble design can achieve savings from more eco-friendly and efficient use of more eco-friendly and efficient use of resources. Between 2008 and 2014, CDL achieved \$\$36.5 million worth of savings in annual electricity consumption from our Green Mark buildings. SUTD: Sustainable design and associated processes and methods are useful to businesses and organisations to obtain competitive advantage, and help develop long-term and design approaches for an innovation economy as opposed to always being subjected to temporal, quarterly bottom lines.

Q: If sustainable design can bring about tangible benefits for businesses and consumers, why is it not widely adopted by the business community? What are the challenges in implementing sustainable design?



"The common myth is that sustainable design often involves high investment or running costs. Depending on the scale, the adoption of sustainable design can generate benefits in the form of savings in running costs which may more than cover the initial investment outlay."



quality.

OPUS: Awareness and cost are the crux to adoption. There is still a lot to be done when it comes to education and awareness to drive home the control bakind everationable design and cept behind sustainable design and practices and the potential benefits that can be accrued from implementa-

CDL: Some businesses may view cost CDL: some businesses may yiew coast as a barrier, but this is a shorrt-term view. With increased adoption of sustainable design, there will be greater economies of scale, which can lead to lower costs. Sustainable design can also improve resource efficiency and generate savings in the long run.

Q: How can businesses - especially SMEs - be encouraged to use sustainable design to enhance their business operations?

SFIC: SFIC organises training semi



"There are a number of practical and pragmatic approaches for government to help businesses. These include incentives and relevant regulations, professional development programmes and training ... as well as investing in significant

research ...

nars and actively encourages its men nars and actively encourages its mem-bers — especially export-oriented SMEs-to-help them obtain green certi-lication for their products, such as the globally recognised Green Guard certification, to enhance their exports or entry to markets such as the USA. OPUS: Solution & services providers can reach out through yardusc chancan reach out through various chan-nels such as the SBF and ASME to the SME community. More schemes or grants could be extended to help de-fray the costs involved to encourage SMEs to take up sustainable design and solutions.

CDL: CDL has been promoting aware CDL: CDL has been promoting aware-ness of the benefits and providing ap-propriate incentives for more busi-nesses, especially SMEs. As one of Singapore's largest landlords, we have leveraged our strong position to influence commercial tenants to emorace sustainable designs and practi-ces through several eco-outreach initi-atives such as Such as Project: Eco-Of-fice in 2002, "I degree centigrade up" Programme in 2007, and CDL Green Lease Partnership programme in 2014. brace sustainable designs and practi-

of sustainable design for business? What are the criteria applied to measure this?

SFIC: There are a number of assess ment guidelines such as the Environ



mental Life Cycle Assessment (E-LCA) and Life Cycle Costing (LCC) as well as the Social and Socio-economic Life Cythe Social and Socio-economic Life Cy-cle Assessment (S-LCA) that are used to assess the impact and benefits of the life cycle of products and services from the extraction of the natural re-sources to the final disposal. OPUS: In IT, a sustainable design would likely be measured by the yard-stick using the TCO (Total Cost of Ownership) of the implemented solu-tion and savings from number of the

tion and savings from running costs such as electricity, maintenance & support costs among others.

CDL: For the building sector, the Build Green Mark scheme is a leading green Green Mark scheme is a leading green building rating system and bench-mark for environmental sustainabili-ty. We have achieved over 80 BCA Green Mark buildings to date, the highest among Singapore developers.

## Q: How can the government help businesses to take up sustainable design practices?

SFIC: The government can do more to actively support sustainable business practices through various incentives such as a green technology financing

such as a green technology financing scheme, more grants for waste recycling and treatment and to help defray the costs of certification or restructuring of non-green businesses towards sustainable ones.

OPUS: The government can take a more proactive approach in education as well as offer grants or subsidies to companies, especially SMEs so that they can benefit from cost-effective use of leveraged or all-in-one solutions.

SUID: There are a number of practical and pragmatic approaches for govern-ment to help businesses. These in-clude incentives and relevant regula-tions, professional development programmes and training, encouraging leadership in bringing science to bear and creating technically valid messa-ging as well as investing in significant arch and translatio partner industry.