

TOWARDS VISION ZERO – AN IMPOSSIBLE JOURNEY? by MR. CHAN YEW KWONG



The Vision Zero (VZ) movement was started in 2015 at the launch of the national WSH Campaign 2015. The Campaign's message was "I can prevent all injuries and be healthy at work". Through the movement, MOM, WSHC and strategic industry stakeholders aim to bring all employers and employees together to embrace the mindset that all injuries and ill health at work can be prevented and a belief that zero harm is possible.

VZ was started from Sweden. In 1997, the Swedish Parliament introduced a VZ policy that requires fatalities and serious injuries on its roads be reduced to zero. Its VZ's concept changes the focus, from the prevention of accidents, to inculcating the view that no one should lose their lives or be seriously injured on the road.

Is VZ at workplaces an impossible journey? This paper shares the ongoing VZ journey for WSH in Singapore.

Mr. Chan Yew Kwong is the Director (Special Duties) in the Ministry of Manpower's Occupational Safety & Health Division (OSHD). He has been with the Ministry of Manpower for about 35 years, serving in various management roles. From Oct 2013 to Mar 2018, he was the Director of OSH Inspectorate where he oversaw the development and execution of enforcement strategies and programmes for regulatory compliance and surveillance across all industries, and ensured the effective implementation of OSH standards at the workplaces.

From Nov 2011 to Sep 2013, he was also Director of Industry Capability Building in the WSH Council where he was responsible for the national WSH competency framework and capability building efforts in organisations and individuals. He oversaw the roll-out and implementation of the Council's first WSH culture building programme.

Mr. Chan is also very involved in the development and promotion of WSH-related Singapore Standards of the EnterpriseSG (formerly SPRING). He was a Member of the Singapore Standards Council from Apr 2011 to Mar 2017 and currently the Advisor to the Singapore Standards Council's Quality & Safety Standard Committee (Apr 2017 - Mar 2020).

SAFETY STARTS FROM THE TOP by MR. BERNARD ESSELINCKX



In this age of digital technology and social media of fast-moving news and soundbites, it is ever important that the culture of safety at work must be promulgated from management down. Management must believe in its importance and ensure that the emphasis on safety is cascaded down and permeated into all staff at all levels. Management must take the lead to show the way to achieve the Vision Zero mission. This session will emphasise this message of how this can be done, with practical examples from private corporations like Senoko Energy. This session will also share how Trade Associations like the Singapore Manufacturing Federation (SMF) can help to promote workplace safety and health.

Mr. Bernard Esselinckx, President & CEO Senoko Energy, Belgian, joined ENGIE in 2007, starting as a Business Developer in Dubai, UAE where he successfully led the bid for Riyadh IPP, a 1,700 MW greenfield combined cycle power plant (CCGT) in Saudi Arabia. In 2010, he became CEO of Al Suwadi Power Company, a JV owned 46% by IPR-GDF SUEZ, which was set up to build, own and operate the 750 MW Barka 3 CCGT power plant in Oman. Which started operation on schedule in April 2013. From 2013 until end 2016, he was CEO of Meenakshi Energy Private Ltd, the first investment of ENGIE in power generation in India, consisting of two coal fired merchant power plants of 300 MW in operation and 700 MW in construction.

He was nominated President & CEO of Senoko Energy on 1 June 2017 and is also a Council Member of the Singapore Manufacturing Federation and the World Energy Council (Singapore Chapter). Prior to ENGIE, Bernard worked for 4 ½ years in Mexico and Belgium as Export Manager for ACV International, a medium-sized manufacturer of residential and commercial boilers & 3 ½ years in consulting at URS Corporation (now AECOM) and Athur D Little. Bernard has a MSc in Civil Engineering from Universite Catholique de Louvain, Belgium and in Environmental Engineering from Trinity College Dublin, Ireland as well as an MBA from IMD, Switzerland.

YOUTH SAFETY by MR. DAVID CHUA



In engaging young workers and trying to bring about mindset shifts, it is crucial to first understand what drives their generational behaviours, what matters to them and how they view work, people and the environment around them. There are generational differences in their psyches and attitudes, but also many similarities in values and aspirations. Understanding these better will enable us to partner well with the young workers to co-create more effective levers that can lead to radical transformational changes in the organization.

Mr. David Chua is the Chief Executive Officer of the National Youth Council (NYC), an autonomous agency under the Ministry of Community, Culture and Youth (MCCY). NYC was restructured in 2015 as the national executive agency to oversee and coordinate holistic youth development, and includes Outward Bound Singapore (OBS) and Youth Corps Singapore (YCS) as its operational divisions. David is also concurrently serving as the Chairman of *SCAPE.

NYC aims to achieve greater coherence and coordination in youth development for ages 15-35, and to strengthen outreach and impact through partnerships and collaboration. Instrumental to NYC's work is understanding the state of youth in Singapore and having a keen sense of the youth pulse on the ground.

Prior to joining NYC, David served for 22 years in the Singapore Armed Forces, holding various command and staff appointments in the Army and Ministry of Defence. He also served as an attache in Indonesia for 3 years from 2008-2011. After commissioning from the UK Royal Military Academy Sandhurst, David graduated from Imperial College (Civil Engineering). He also has a MBA from the Massachusetts Institute of Technology (MIT).

THE CHALLENGE OF BUY-IN by MR. DARREN BENDER



The potential for design-for-safety (DfS) to support a vision of zero fatalities per annum in the construction industry is obvious. However, for that potential to be realised, the key stakeholders need to invest their efforts and knowledge in the DfS process. This involves the stakeholders' collective 'buy-in'.

Mr. Darren will speak from experience as a DfS Professional in conducting DfS design reviews to examine the challenges in getting buy-in from Architects, and will present some solutions towards achieving such buy-in.

Mr. Darren received his Bachelor of Architecture degree with First Class Honours from the University of Adelaide, Australia in 1995, and registered with the Board of Architects, Singapore in 2001. Since 1996 Darren has resided in Singapore, and he is currently a Director of the architectural practice VivATA Pte Ltd (fka ATA Architects Pte Ltd).

Mr. Darren's involvement in the Singapore Institute of Architects includes election to Council from 2007/08 to current terms, and he has actively participated in various SIA committees, including chairing the SIA WSH Committee from 2010 after being Deputy Chairperson in the inaugural 2009 committee. Also, since 2010, Darren serves as SIA's representative to the WSH Council (Construction & Landscape) Committee and to its 'Design for Safety (DfS)' sub-committee prior to and during the formation of the DfS regulations. He also serves as a DfS Professional on various building projects.

Pursuant to the WSH Council 'Guidelines on Designing for Safety in Buildings and Structures,' Darren attained accreditation from WSH Council as a Trainer for the Design-for-Safety Professional (fka DfS Coordinator and Project Safety & Health Coordinator) Course after participating in the inaugural PSHC 'train-the-trainers' course in 2009. In line with SIA attaining Accredited Training Provider status, Darren actively lead the arrangements, and co-conducted the training, for Singapore's inaugural run of the PSHC Course in August 2010. Darren continues to conduct the DfSP course for SIA and contributes to the DfSP course and DfS Appreciation talks for IES.

OUR VISION ZERO JOURNEY FROM BOARDROOM TO FIELD by MR. BERNARD ONG



In the drive for Vision Zero, management leadership, along with organisational alignment and commitment, is critical. In this session, Bernard will share how Vopak - the world's leading independent tank storage company - is building a culture of Care for Safety, Health and Environment from boardroom to field, while harnessing innovation, to improve its WSH performance.

Mr Bernard Ong is Director of Operations at Vopak Terminals Singapore. He is responsible for safety, health and environment (SHE), operations, maintenance, customer service, projects, engineering, procurement, IT, innovation, learning and organisational effectiveness.

Prior to his current role, Bernard has amassed 19 years of manufacturing and supply chain experience with ExxonMobil across three manufacturing sites and five locations across the globe.

REDAS' DFS & WSH GOOD PRACTICE GUIDE FOR DEVELOPERS by ER. WIJAYA WONG



Many projects have benefited with safer designs since the Workplace Safety and Health (Design for Safety) Regulations have come into operation in August 2016. At the same time, the industry also recognised that there is room for improvement in DfS implementation. In August 2018, REDAS has taken the initiative to address the shortcomings, and commissioned DfSP Consultants Pte Ltd to develop a good practice guide. The purpose of this guide is to share good practices knowledge across the industry, with the aim to avoid the common deficiencies in DfS implementation so that it is a genuinely value-added process and not just a red tape. It is a useful review and reminder of the key techniques that can be applied. Also included are recommendations for WSH leadership and procurement practices that Developers can consider adopting to achieve a higher level of safety.

Er. Wijaya Wong is highly experienced in design and project delivery of infrastructure, industrial, commercial, residential as well as institutional projects. Throughout his 20 years of working experience, Wijaya has worked in projects across Singapore, Indonesia, Malaysia, Hong Kong and China.

Er. Wong is a practicing Professional Engineer practicing Design for Safety Professional.

One of the highlighted building projects under his portfolio is the Marina Bay Sands Integrated Resort, of which he is the Qualified Person (Design) for the Hotel Towers. He provided strong leadership for a team of engineers and technicians delivering structural design and construction support for the project. With his in-depth technical and management capability, he resolved complex technical challenges of the design and construction.

He has also been involved in a number of infrastructure projects, one of his notable achievements is the Singapore Mass Rapid Transit North East Line Contract 704 (SMRT NEL C704), of which he was the lead structural engineer for the design and construction support.

Under his portfolio, he has more than 15 major projects from institutional, industrial, commercial, residential and mixed-use developments.

DIMENSIONING AND TRANSFORMING WSH ROADMAP THROUGH VISION ZERO

by MR. BHUPENDRA SINGH



Vision Zero is a mindset ingrained with a philosophy where everyone accept that there is a foreseeable cause for incidents and all incidents are preventable. Vision Zero is a concept started way back in 1997 in Sweden and very much adopted by Singapore in 2014 as a strategic thrust to improve WSH performance. Diap Daelim JV embarked on vision zero journey in year 2017.

Vision Zero was strategized at the workplace by adopting 3 Dimensions namely; Engage, Educate and Enable. Every dimension was strategically implemented in the vision zero programme(s) throughout year where every stakeholders right from the top management to the rank and file were committed. Presentation discuss the management approach and 3 dimensions adopted to inculcate safety mindset. Detail data analysis was carried out to identify critical improvements to be achieved and plan the vision zero programme . With 2500 personnel working 24/7, Vision zero achieved its target goals in each subsequent years where there were no reportable incidents during the programme and workplace achieved significant improvement in WSH performance.

Mr. Bhupendra Singh Balian, registered safety and health officer, a WSH auditor and a chartered member of IOSH, currently heads the Health, Safety, Environment and Security department at Tuas Terminal Project Phase 1 in short "Tuas Mega Port" worth of S\$2.47 Billion.

He has been working in the field of occupational safety and health and environment for last 24 years and served on various HSE committees and organisation and represent in Spring Singapore standards as working group member. He is a member of the Health and Safety Engineering Technical Committee Institute of Engineers, Singapore and actively participates and represents IES and IOSH. Besides his full time employment, Mr. balian volunteered to be a workshop safety officer in Singapore Armed Force. He is an immediate past chairman of IOSH Singapore branch.

Mr. Balian has obtained academic degrees in M.Sc. (Transportation Engineering) from Nanyang Technological University, M.Sc.