

MEDIA RELEASE

Embargoed for release on 13 January 2016 at 10.30am

NEW SKILLSFUTURE EARN AND LEARN PROGRAMMES AND ENHANCED INTERNSHIPS FOR POWER ENGINEERING SECTOR

Exciting careers and prospects for students as 17 companies and four educational institutions sign MOU to train talent in power engineering

Singapore, 13 January 2016 – 17 companies and four educational institutions signed a Memorandum of Understanding (MOU) today to give the power engineering sector a boost by attracting more talent, with enhanced learning platforms and better preparation for exciting careers in the sector. The MOU will enable parties to explore and develop initiatives such as Enhanced Internships and SkillsFuture Earn and Learn Programmes for polytechnic and ITE electrical engineering students and graduates.

The SkillsFuture initiatives were announced by Mr Ong Ye Kung, Acting Minister for Education (Higher Education and Skills), at the SkillsFuture for Power Engineering Sector Memorandum of Understanding (MOU) signing ceremony.

The 17 companies involved cover various aspects of the industry, such as power generation, transmission and distribution, electrical consulting and contracting services, electrical equipment and service providers, as well as large electrical consumers (see attached Appendix). The four educational institutions are Nanyang Polytechnic (NYP), Ngee Ann Polytechnic (NP), Singapore Polytechnic (SP) and ITE. NP is the sector co-ordinator for the power engineering sector.

Under the MOU, more than 800 polytechnic and ITE electrical engineering students will embark on Enhanced Internships from March 2016 that will give them a better understanding of the job scopes, career progression pathways, and work environments within the power engineering sector. Students can look forward to more structured learning at the workplace over a 6-month attachment period. They will be mentored and trained in the necessary skill sets and knowledge to enable them to transit smoothly into jobs in this sector.

Electrical engineering students and graduates can look forward to exciting careers and progression. As Singapore powers ahead to become a Smart Nation, smart power engineering is critical. With large-scale infrastructural works such as airport expansion, doubling of the rail network and future port development in the pipeline, there will continue to be demand for electrical engineering professionals to provide smart solutions in energy supply and management. New and emerging technologies also promise exciting challenges and careers for electrical engineering professionals.

Mr Clarence Ti, Principal of NP, said: “The SkillsFuture Earn and Learn Programmes for the power engineering sector are both timely and exciting as they prepare graduates to take on interesting jobs in diverse clusters of power-related companies. We will work closely with industry partners to ensure that

Singapore continues to maintain a reliable world-class power supply system crucial for infrastructural developments that are mega in scale and smart in technology implementation.”

Polytechnic graduates who join the power engineering sector will benefit from the opportunity to deepen their skills and enjoy better career prospects through two post-graduate diplomas as part of the SkillsFuture Earn and Learn Programme.

NP will launch a Specialist Diploma in Electrical Design and Operation in October 2016 that focuses on the design and operation of electrical distribution systems for commercial, industrial and residential projects. The course will allow participants to gain work experience while deepening their skills and knowledge.

Another SkillsFuture Earn and Learn Programme is the 18-month Advanced Diploma in Power Engineering offered by SP which will commence in April 2016. This course aims to deepen the knowledge and skills of participants in the area of power engineering, to meet technical manpower needs of the industry.

Under the SkillsFuture Earn and Learn Programme, polytechnic graduates will be hired by a participating company where they will receive relevant on-the-job training while furthering their studies. Participants who are Singaporean and fresh graduates will also receive a sign-on incentive of S\$5,000.

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*For more details, please visit the SkillsFuture website at <http://www.skillsfuture.sg>

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List and Description of the 17 companies signing the MOU for the Power Engineering Sector

1. Power Generation

- **Tuas Power Generation Pte Ltd:** It owns and operates Tuas Power Station with an installed generating capacity of 2,476MW, about 20 per cent of Singapore's total power supply. Tuas Power Station has a plant portfolio of five highly efficient Combined Cycle Plants and one 600MW steam plant. Tuas Power has also extended its reach into related fields that synergise with its current operations; these include the provision of multi-utility services, oil terminalling, and storage services.
- **YTL Power Seraya Pte Ltd:** Its generation and electrical retail business has a licensed generating capacity of 3,100MW. Besides energy retailing, YTL Power Seraya focuses on four key business activities – utilities services, energy markets, physical oil trading and storage tank leasing.

2. Transmission and Distribution

- **Singapore Power:** SP is a leading energy utility company in the Asia Pacific. It owns and operates electricity and gas transmission and distribution businesses. International benchmark indicators rate SP's electricity grid in Singapore as one of the world's best performing networks, beating those of other global cities. SP owns and operates electricity and gas transmission and distribution businesses and provides energy market support services in Singapore and Australia.

3. Electrical Consulting and Contracting Services

- **Beca Asia holdings Pte Ltd:** The Singapore office of Beca Asia Holdings Pte Ltd ("Beca") opened to support the evolving Buildings sector. Singapore is now the headquarters of Beca's Asia hub with over 500 employees in five countries providing project management and engineering consultancy services to commercial building developers and industrial clients. Beca is one of Asia Pacific's leading multidisciplinary consultancies and has operated in over 70 countries. With around 3000 employees, the company has the diversity of experience and expertise to tackle major projects. Beca has over 95 years' experience in successful client relationships, technical excellence and delivering award-winning project solutions.
- **Sembcorp Design and construction Pte Ltd:** Sembcorp Design and Construction Pte Ltd ("SDC") is a wholly owned subsidiary of public-listed Sembcorp Industries. SDC is a design and build construction service provider with a dedicated team of professionals to undertake civil and building infrastructure projects and has its history dated back since 1982. Today, SDC is registered with the Building Construction Authority of Singapore as an A1 building (CW01) and civil engineering (CW02) contracting firm and is qualified to tender for public sector contracts with unlimited tender sums. Together with its engineering arm, SDC's goal is to meet the needs of its clients by transforming their vision into reality by integrating design and construction activities into a seamless process so that clients can enjoy the benefits of exceptional quality, timely delivery and excellent value. SDC's growth strategy lies in the company's firm commitment to achieve the highest standards of quality, health, safety and environment with its 3 in 1 integrated management system - BCA ISO 9001 (Quality Management

System), BCA OHSAS 18001 (Occupational Health & Safety Management System) and BCA ISO 14001: 2004 (Environmental Management System). As a responsible corporate organisation, SDC strives to minimise any negative impact on the environment with eco-friendly measures and promoting efficient use of resources.

- **Cyclelect Electrical Engineering Pte Ltd:** Headquartered in Singapore, Cyclelect Holdings Pte Ltd (“Cyclelect”) is the controlling shareholder of the Cyclelect Group of Companies. The Cyclelect Group provides engineering, procurement, construction and project management services for marine and land industries. With offices in nine countries and a staff strength of more than 500, the Group has become a trusted partner to many global companies since their founding in 1943. The Group comprises several subsidiaries and joint ventures, including Cyclelect, Aeco, Mecflou and Chemicrete. Together, the Group serves key industrial segments that include marine and offshore, oil and gas, high-technology manufacturing, integrated facilities management, utilities and infrastructure, process and pharmaceutical, commercial and special events.
- **Litewell Engineering Pte Ltd:** Litewell Engineering (“Litewell”) specialises in mechanical and electrical installation for both industrial and commercial buildings and offers services in areas like project management, planning, design, cost estimation, procurement, installation and site administration. Litewell started as a simple home-grown company in 1991 and has grown into a respected brand name in Singapore when it comes to mechanical and electrical engineering. In 1994, Litewell became a Private Limited company. Today, the company has offices in the Philippines, Malaysia and Vietnam. – a testament to Litewell’s reputation and achievements since the company’s humble beginnings.
- **System Technic Engineering Pte Ltd:** It is a small and medium enterprise specialising in maintenance, servicing and testing of electrical installations, 22kV switchgears, transformers, low voltage switchboards and cables. The company’s clients include high rise offices, shopping centres, army camps, airbases, schools, grade "A" offices, hotels and condominiums, government institutions and hospitals.
- **Terasaki Electric Co. (Far East) Pte. Ltd:** Terasaki Electric Co. (Far East) Pte. Ltd. (“Terasaki”), established in 1973, is an international electrical engineering specialist that provides high quality and reliable solutions to the marine, offshore and land-based industries. The parent company, Terasaki Electric Co. Ltd is based in Osaka, Japan, and has a history of 93 years. The core business of Terasaki is mainly the design and manufacture of electrical switchboards (medium voltage & low voltage). This includes the system integration of electrical and automation systems with electrical and instrumentation (E&I) engineering and installation works, as well as the supply and installation of total integrated automation systems. Terasaki also undertakes the design and supply of E-house (mobile type power plant packages) for the oil & gas industry. Terasaki is also involved in electrical and automation equipment life-cycle business that includes servicing, preventive maintenance, repair and retrofitting works.
- **UG M&E Pte Ltd:** An established brand name in engineering, UG M&E Pte Ltd (formerly known as United Engineers (Singapore) Pte Ltd), registered in 1966, has a track record of almost 50 years and provides a wide spectrum of M&E engineering services. UG M&E Pte Ltd (“UGME”) primarily undertakes projects on an engineering, procurement and construction (“EPC”) arrangement and the company’s capabilities include design, supply, installation, commissioning and service maintenance. UGME provides integrated M&E engineering services that include high and low-voltage electrical power distribution, air-conditioning and mechanical ventilation, and fire protection and alarm systems

- **Renewpowers Technologies Pte Ltd:** Renewpowers Technologies Pte Ltd (“Renewpowers”) has designed, installed, commissioned and maintained bespoke photovoltaics and thermal systems for the residential, commercial and industrial markets. The company’s services also include offering of expert advice, designing and drafting of technical drawings, supplying a full range of renewable power systems and products as well as post-installation maintenance.

4. Electrical Equipment & Service Providers

- **Meiden Singapore Pte Ltd:** It is wholly owned by Meidensha Corporation, Japan. Meiden’s equipment for power transmission and distribution networks provides products and solutions in the power, rail transport, water treatment and industrial automation industries.
- **Keystone Cable (S) Pte Ltd:** Keystone Cable (“KCPL”) is a leading Singapore-based cable manufacturer and supplier for the regional markets. Established since 1990, Keystone Cable specialises in the manufacturing and supply of extra low voltage, low voltage and high voltage cables to various industries, including Building and Infrastructure, Oil and Gas, and Data Communication.
- **Power Automation Pte Ltd:** Power Automation Pte Ltd (“PA”), a joint venture company between Singapore Power and Siemens, was formed in June 1996 to pursue dynamic opportunities in power system control and substation automation markets in Southeast Asia. PA’s mission is to be a leading system integrator and turnkey vendor providing innovative solutions for Power System Control and Substation Automation systems leading to total customer satisfaction

5. Large Electrical Consumers

- **PSA Corporation Ltd:** PSA is the port operator of choice in the world's gateway hubs, renowned for best-in-class services and successful partnerships. Its core business is transshipment, the transfer of containers from one vessel to another vessel bound for its final destination.
- **SBS Transit Ltd:** SBS Transit Ltd (“SBS”) is a leading bus and rail operator in Singapore and aims to provide world-class public transport which is safe, comfortable, affordable, reliable and friendly. SBS operates the North East MRT Line, which is the world's first fully automated, underground heavy rail system that connects Punggol to HarbourFront, as well as the Light Rail System in the Punggol and Sengkang new towns. SBS also operates the Downtown Line. When fully completed, this 42km line with 34 stations will be the longest underground line in Singapore.
- **SMRT Corporation Ltd:** SMRT Corporation Ltd is the leading multi-modal public transport operator in Singapore. We serve millions of passengers daily by offering a safe, reliable and comprehensive transport network that consists of an extensive MRT and light rail system which connects seamlessly with its island-wide bus and taxi operations. SMRT Non-Public Transport businesses offer operations and maintenance services, as well as rail engineering consultancy and project management expertise both in Singapore and abroad.