

## Cat® equipment prepares the ground for Singapore's first integrated healthcare hub built from ground up.

*JurongHealth Services pave the way for seamless integrated care for the West with the twinning of the Ng Teng Fong Hospital and Jurong Community Hospital*



Artist impression of the Ng Teng Fong Hospital and Jurong Community Hospital.  
(Picture courtesy of JurongHealth Services)

Centrally located at Jurong East Street 21, the **Ng Teng Fong Hospital (NTFH)** and **Jurong Community Hospital (JCH)** will be first in Singapore to be built from ground up as one integrated development to provide seamless, hassle-free healthcare for the Western region.

Scheduled to open in 2014 and early 2015 respectively, NTFH and JCH will offer 120 Consultation Rooms in the Specialist Outpatient Clinics, 18 Operating Theatres and a comprehensive suite of specialist services. The hospitals will also be within easy access for the public in the West through links to the Jurong East MRT station, bus interchange, retail and business complexes – thus bringing specialist and rehabilitation care closer to the community.

Planning, designing and managing both hospitals as one development from the start is a first in Singapore's healthcare! The twinning will enable patients to benefit from the continuity and seamless co-management of clinical care and expertise by doctors from both hospitals.

NTFH and JCH will also be wired up for connectivity and share services such as digital imaging, pharmacy, catering, medical records, logistics hub as well as training facilities. These efforts will translate into more cost-effective and affordable quality healthcare for the community.

The hospitals will also be the first to provide a window for every patient with its innovative fan-shaped ward design which will provide a more conducive healing environment with significantly improved ventilation, privacy and comfort for patients in subsidised wards.



Artist impression of the innovative fan-shaped ward.  
(Picture courtesy of JurongHealth)

Incorporated in 1983, Huatong Contractor Pte Ltd is one of Singapore's leading civil engineering companies and a valued customer of Tractors Singapore Limited (authorized Cat dealer for Singapore, Maldives and Christmas Island-Indian Ocean) with 95% Cat equipment in its fleet. Huatong Contractor has secured the tender to prepare the groundwork for the S\$1 billion NTFH and JCH project from Penta-Ocean Construction Ltd – the main contractor for the sub-structure.



(Left photo) A pair of Cat hydraulic excavators working effortlessly in sodden conditions.

(Right top photo) Cat 336D working against a backdrop of HDB flats.

(Right bottom photo) Cat CS-563E compactor poised to level uneven areas.

Deploying a good mix of dependable Cat hydraulic excavators 320Ds, 330Ds and 336DL along with a compactor CS-563E to work the field amidst recent wet weather conditions, Chairman, Mr. Ng Hai Liong and his sons, Messrs Patrick Ng and Vincent Ng are confident Huatong Contractor Pte Ltd will comfortably meet the deadlines set for this project. The Ngs have concluded many successful projects in their portfolio with several on-going jobs island-wide. These include sections of the Kallang-Paya Lebar Expressway Project KPE C421, Circle Line Project CCL C855 and C856 plus Down Town Line Project DTL C906, C911 and C9053. Repeat customers attest to their astounding capabilities and quality of work.

*"Huatong Contractor Pte Ltd has worked for many years now with the team at Tractors Singapore Limited. Its sales and product support personnel know how to delight its customers. We are happy to use premium Cat equipment as these are renowned for their reliability, versatility and sturdiness,"* states Director, Mr. Patrick Ng.

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## **JURONG SHIPYARD SECURES ORDERS TO BUILD WEST TUCANA AND WEST CASTOR**

***JSPL Hull 11-1101/1102 will be powered by Cat® C175 gensets***



Model of a Friede & Goldman JU-2000E Rig

Jurong Shipyard Pte Ltd (JSPL), a subsidiary of Sembcorp Marine, recently secured orders for two turnkey jack-up rigs from Seadrill. Scheduled for delivery in the fourth quarter of 2012 and the first quarter of 2013 respectively, the projects represent the latest generation, high specification jack-up drilling rigs with greater capacities and capabilities than current conventional units. These rigs will be built based on the Friede & Goldman JU2000E design and are suitable for operations worldwide, including the southern North Sea. On completion, these new rigs will be capable of operating in waters of 400 feet and drill to depths of 30,000 feet. They will offer improved drilling efficiencies with off-line pipe handling, simultaneous operations support and are equipped with increased accommodation capacity.

To convince JSPL that the Cat C175 offshore generator set is the ideal selection for the new high specification jack-up, the team at Tractors Singapore Limited's Power Systems Division and Caterpillar® conducted a series of technical discussions with the JSPL engineers. The C175 generator was deemed the best fit due to the small footprint and high power density. One unit of C175 generator delivers 1830eKW and weigh around 25 tons which is significantly lower and smaller than comparable medium-speed engines in the market. Its compact package design makes a huge impact on the rig's performance.



Caterpillar® C175 offshore generator set – small footprint, high power density

TSL was eventually awarded the contract in February 2011 to supply 10 units of Cat C175 offshore generators as main power supply for the two rigs. With this success, it symbolizes Cat's continual status as an offshore industry leader and again reflects Jurong Shipyard's strong confidence that Tractors Singapore will deliver and support a quality product.

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## **GOING GREEN ON THE GREEN WITH AN INDUSTRIAL DESIGNERS SOCIETY OF AMERICA (IDSA) NATIONAL DESIGN AWARD FINALIST'S MASTERPIECE**

***Jacobsen's Eclipse 322 Riding Greens Mowers for Warren Golf & Country Club***



TSL Senior Sales Executive, Ismail Dawood (centre) with Warren Golf & Country Club's Course Superintendent, Michael Cabel (second from left) and team posing with the pair of Jacobsen's hybrid equipment, the Eclipse 322

*Imagine a beautifully cut green unmarred by streaks of oil leaks ... that is one of the promise the new Jacobsen hybrid holds for its end users.*

When valued TSL customer, **Warren Golf & Country Club (WGCC)** decided to upgrade their 10-year old Jacobsen G-Plexes Triplex Green Mowers – it was without question that it had to be a migration to the new generation of Hybrid Green Mowers from Jacobsen/Textron USA. Last year, WGCC replaced their ageing Jacobsen PGM22 with 7 units of Eclipse 122F Walking Green Mowers.

What are the unique features of the Eclipse 322? It

- a) Is an environmentally-friendly mower
- b) Precision cuts and aerates the greens on golf courses. (The electronic controls allows customization to meet specific requirements of any golf course)
- c) Is powered by combining a gas or diesel engine with continuous generator providing electric current to power traction drive motor and the reel drives.
- d) Is simpler, faster and less expensive to operate and maintain.
- e) Significantly reduces / even eliminates emissions where exhaust and noise are concerned.

Course Superintendent, Michael Cabel is impressed by Jacobsen's Eclipse 322. He commented: *"The unique features of the Eclipse 322 are the complete absence of hydraulic oil which means total elimination of hydraulic leaks on the greens which is the bane of any Course Managers. Additionally, with the frequency of clip control, we can ensure that all the greens are cut to the same immaculate standards. In addition, the 13hp diesel engine is also very much quieter than conventional mowers."*

The Warren Golf and Country Club or WGCC (formerly known as Warren Golf Club) was founded by the late Brigadier Derek Warren in 1962 when he was the Commanding Officer of the 18 th Signal Regiment of the British Army. It started with a 4-hole golf course which quickly expanded to feature a 9-hole course and driving range for its officers. WGCC has since evolved over the years and now has an impressive 18-hole championship course as well as an extensive range of social and recreational facilities for its members.

## TRACTORS SINGAPORE LAUNCHES ITS GREEN DAY

### *Company-wide effort to save GAIA*



Our Managing Director, Mr Ng Pock Yin, doing his bit for the environment

28 January 2011 marked the first Tractors Singapore Limited Green Day. This occasion was part of TSL's effort in "Developing Sustainable Futures."

Programmes leading to TSL Green Day included the "Green Suggestions Competition", where the main objective was to look into ways to save our environment by "Reducing Carbon Footprint". A total of 32 suggestions were submitted. "No Car Day" was introduced for 28 January 2011, as part of the effort to reduce carbon emission. All staff with cars were encouraged not to drive to work. For the others, instead of the usual pickup points along numerous routes taken by the Company's transport, only one pickup point was made available at the Joo Koon MRT station 3 km away from TSL. "No Car Day" proved to be a success with the significant drop in the number of vehicles in the TSL car park.



The Product Support (Parts and Service) teams in front of their respective patches



The day's programme promptly began at 8:30 am with the tree planting session at the TSL car park. Our staff planted 150 saplings of Ixora as our pledge to mitigate climate change as well as to contribute towards the 1 Million Native Plants @ South West programme. Like many city dwellers, this was one of the very rare opportunities when we could participate in gardening.

The rest of the Green Day continued with the MD's address on the Green Day, and following that, the prize presentation of the winners of the "Green



Interested in saving the environment and money!

Suggestions Competition”.

A spokesperson from the National Environmental Agency (NEA) was engaged to share with our employees on the subject of “Our Environment – Sustain and Enjoy”. The talk was definitely an insightful one which provided knowledge on the 3Rs – “Reduce, Reuse, and Recycle”. After the talks, all staff were encouraged to visit the booths set up by the Green Committee for personal carbon foot print calculation, as well as counters manned by the external parties such as the NEA, Singapore Environmental Council, and vendors exhibiting energy saving products.



So, what's your carbon footprint?

## IT CAN ONLY BE CATERPILLAR® FOR ZOOMLION

**The China Engineers, Ltd completes delivery of 15 units of Cat® C7 ACERT Engines**



Zoomlion's Super 130 Asphalt Paver



Caterpillar C7 ACERT industrial engine (186 KW)

Changsha Zoomlion Heavy Industry Science & Technology Development Co., Ltd (hereinafter referred to as Zoomlion), is a hi-tech public company with production bases located in Hunan, Shanghai, Shaanxi, Guangdong of China as well as Milan of Italy.

Zoomlion in Chinese and English - "中联" and "ZOOMLION" are well-known trademarks in China. Zoomlion is in the construction machinery business and has the world's most complete product chain with completely independent intellectual property rights. Recently, its main products, sold worldwide, were rated amongst the best in China's market share.

When Zoomlion considered engines for its model Super 130 Asphalt Paver – it could only be reliable Cat for a best fit. The world's top brands of heavy equipment and air compressor manufacturers are known to use Cat industrial engines to power their equipment as these are acclaimed for delivering outstanding performance and are backed by the most responsive global support network.

The China Engineers, Ltd (CEL) - a member of the Sime Darby Group and the authorized Cat dealer for Hong Kong, Macau, Southern China and Xinjiang – had the privilege of delivering 15 units Cat C7 engines (186 KW) to Zoomlion for its Super 130 asphalt pavers before the June 2011 deadline. Cat C7 is an ACERT engine with multiple engine ratings which allow customers to conveniently order preconfigured power packs for a variety of

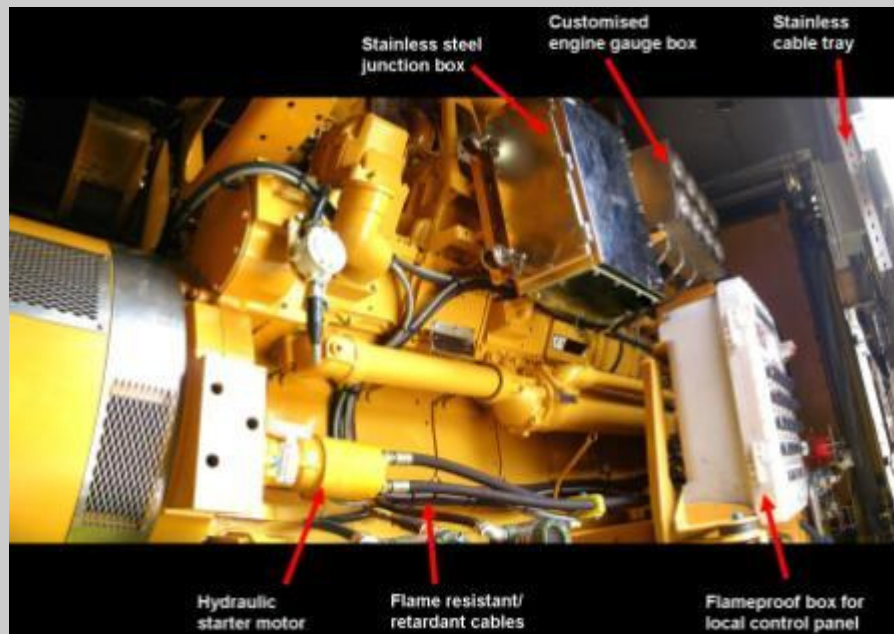
applications. C7 ACERT is Tier 3, Stage IIIA certified. Its benefits include:

- Complete package
- Cooling system
- Safety system
- Accessory Pulley
- Air Filters
- Serviceability
- Product support

That Zoomlion is a repeat customer is testimony of its confidence in CEL's sales and service support.

## **YOUR CUSTOMISED POWER SYSTEMS NEEDS SATISFIED!**

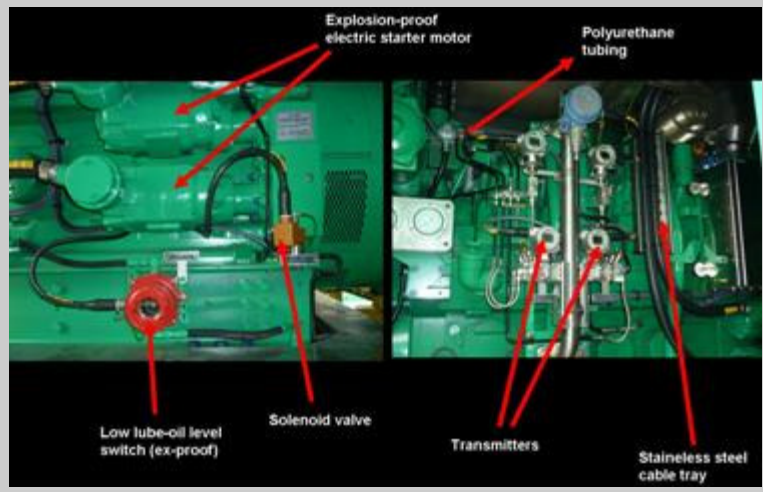
### ***Local packaging strategy pays dividends for SDI's Power Systems Division***



Authorised Cat® Dealer for Malaysia and Brunei, SDI's Power Systems Division (SDIPSD)'s customized local packaging capability, especially for the Oil and Gas industry, is paying dividends as it gains recognition from satisfied end-users.

From its inception in 1989, SDIPSD has focused its local packaging works on generator sets to meet the special needs of our valued end-users. We started off with the packaging of Generator Set Engines (GSE) attached to customers' preferred Alternator brand (Stamford/Leroy Somers/Kato/AVK/SR4). The skid bases and radiators were procured locally.

Over the years, with improved manpower competency- in knowledge, experience and expertise, coupled with state-of-the-art workshop facilities, SDIPSD is now able to offer our discerning customers, local packages that are ergonomic in design, equipped with protection, monitoring and control systems that comply to SHELL DEP and PETRONAS PTS specifications. Our packages have received accreditation by independent certifying bodies- Lloyds, Moody, BV, ABS, DNV and operate in both on-shore and offshore applications including hazardous zones.



Today SDIPSD’S designed packages operate in installations that include Black Starts for Power Plants, Gas Processing Plant, Compressor Stations and as Emergency Generator sets for Commercial buildings and offshore platforms. Typical scope of works under local customized design and packaging include:

- Attaching of LV/HV Generator, Radiator, Skid base, Fuel tank and Coupling to Generator Set Engine (GSE)
- Installation of power monitoring and control systems that include Generator Control panel, Gen Switch gear, MCC, SCADA with modbus / Etranet protocol communication –designed according to approved electrical and instrument single line.
- Conversion of Starting systems to Electric, Hydraulic or Pneumatic configuration.
- Installation of Exhaust Gas cooling systems for Zone 2 applications, Gas Group IIB, Temperature Class T3.
- Installation of Flame/Spark Arrestors for Air Inlet, Crankcase and Exhaust System.
- Optional Fire Fighting Systems that includes CO2, Water-Mist or FM200.
- Acoustic Enclosure designed to noise level below 85dba.

Major projects secured and commissioned using PSD-SDI customized local packaging include:

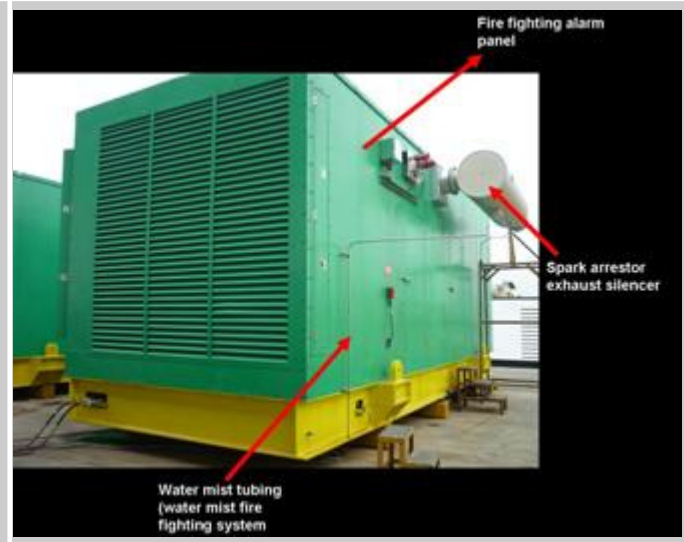
Project's Name	End User
<ul style="list-style-type: none"> <li>• Pearl Platform</li> <li>• Turum Platform</li> <li>• Cili Padi</li> <li>• Kikeh</li> </ul>	<ul style="list-style-type: none"> <li>• Petronas (Off Vietnam)</li> <li>• Esso (Australia)</li> <li>• Shell (Off Sarawak)</li> <li>• Murphy Oil (Off Sabah)</li> </ul>

SDIPSD remains committed to realizing its mission statement: *"to be the preferred Power Systems Supplier with specialized packaging capabilities to suite all applications and industries."* Local packaging adds value to our selling proposition and differentiates us from competition.

The key ingredient to customized design and packaging is in the recruitment, training and retention of skilled, experienced and competent personnel.

Francis Tan- Lead Execution Engineer for Project Dept, PSD explains the situation, "The Oil & Gas industry today imposes stringent controls and specifications in line with environmental/operations safety and health standards. To meet these criteria, we must have proficient knowledge of Oil and Gas industry specifications and understand how our product and service offerings can comply with these requirements."

It is envisaged that as the Oil and gas industry picks up in the coming years, SDIPSD is well positioned to take advantage of our packaging competency to offer Cat dealers worldwide and end-users, customized solutions and be their preferred power systems solution provider.



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## SNIPPETS FROM OUR PRINCIPAL, CATERPILLAR® INC

### CATERPILLAR MAKES STRATEGIC INVESTMENTS TO SUPPORT ITS MINING CUSTOMERS

*Thai facility to position Caterpillar for continued leadership in the mining industry*

Caterpillar Inc (NYSE:CAT) announced its plans to open a new manufacturing facility in Thailand . Early 2011 will see the groundbreaking ceremony on the 60,000 sq metre site at Hemaraj Rayong Industrial Land in Rayong Province with production scheduled to begin in late 2012. Chris Curfman, President of Caterpillar Global Mining and a Caterpillar Inc. Vice President, declared that this full range underground (hard-rock) mining articulated trucks and loaders producing facility will increase Caterpillar's capacity and sharpen its focus on meeting long-term customer demand in growth markets.

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## Upcoming Events

- [Tractors Singapore is participating in Sea Asia 2011 at the Marina Bay Sands from 12 to 14 April 2011!](#)
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