JELINSIDER

66 Each individual's contribution, no matter how small, serves as a beacon of hope for the preservation of our oceans.

Preserving Our Ocean
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Annual **HSE** Conference

Celebrating its 11th year, the JEL Group HSE Conference invited HSE Managers from the various subsidiaries, marking another milestone in fostering safety excellence within our organization.

Kicking off the event, JEL's MD & CEO, Mr Koichi Watanabe, commended the dedication of our staff to upholding stringent safety standards. While acknowledging our achievements, he emphasized the ongoing need to strive for incident mitigation, irrespective of their scale. Recognizing the different safety practices across sites, he encouraged attendees to leverage the conference as an opportunity for cross-learning and collaboration.

In the concluding remarks, JEL's COO, Mr Koh Kew Sek, underscored the perpetual importance of nurturing a robust safety culture, ensuring its transference to future generations. He reiterated that maintaining JEL Group's exemplary safety standards is pivotal for our competitive edge in the market.

As we look forward, let us collectively pledge to uphold impeccable safety standards, fostering a workplace environment that prioritizes the wellbeing of every individual. Remember, prioritizing safety isn't just a professional responsibility-it's a commitment to the well-being of our loved ones, awaiting our return home each day.



Annual JEL Group Meeting 2024

In late April, the Annual JEL Group Meeting convened, drawing together senior management, finance personnel from subsidiaries, project managers, and department heads.

Setting the stage for the proceedings, Mr Koichi Watanabe, JEL's MD & CEO. offered an overview of the successes challenges encountered in and FY2023. Emphasizing the concept of regionalization, he elucidated its essence

beyond mere establishment of regional centers, focusing instead on collaborative efforts towards the Group's overarching objectives.

Echoing this sentiment, Mr Koh Kew Sek, JEL's COO, reiterated the significance of regionalization, articulating a vision where full integration enhances resource optimization, thereby benefiting every facet of the Group. He envisioned subsidiaries evolving into more robust entities, fostering collective growth and capability enhancement.

The meeting featured insightful sessions where subsidiaries and JEL divisions engaged in reflective analysis of their performance over the past year. Presentations delved into anticipated challenges for the upcoming year, accompanied by robust contingency plans, fostering a culture of proactive preparedness and strategic foresight.



In response to the rapid evolution of the digital landscape, IHIAP has taken proactive steps to empower its colleagues with essential digital skills through the establishment of the Digital Transformation (DX) Community for the IHI Group of companies in the Asia Pacific region.

In the fiscal year of 2023, the community witnessed robust participation with 27 individuals enrolled in the Fundamental program, with 12 coming from JEL. This diverse cohort hailed from various backgrounds, companies, and countries, enriching the learning experience with a breadth perspectives.

Throughout the year, participants engaged in a structured learning journey comprising four modules, facilitated by self-paced courses on Udemy and interactive presentations. Culminating in a hands-on workshop early this year, the program provided a collaborative platform for knowledge application and skill enhancement.

For the Fundamental group, the workshop was an eagerly awaited opportunity to meet their fellow team members in real life. On the first day, they were introduced to Rapid Application Development (RAD) such as Power apps, a user-friendly tool suitable for even those with limited coding background. Following this, the teams put their knowledge to a test presenting their transformative solutions leveraging RAD to enhance IHI Group's business.

At its core, the DX Community seeks to empower staff members with the competencies necessary to conceptualize and implement digital solutions that not only streamline their individual workflows but also contribute to the collective advancement of the organization.

We hope that each staff member will seize this opportunity to develop themselves further and become a Digital Transformation Leader adept at identifying and bridging any gaps in the Group's business through digitalization

This year's Town Hall brought everyone together for an insightful session, shedding light on our Group's exciting plans for the upcoming fiscal year.

Mr Koichi Watanabe, JEL's MD & CEO, took the stage to illuminate the path forward, emphasizing the criticality of identifying and addressing the missing pieces that can propel JEL Group to greater heights. He impassioned each member to introspect and proactively contribute towards filling these gaps, thereby fostering continuous improvement in their respective roles.

Town Hall 2024 During the session, Mr Koh Kew Sek, JEL's

constructive dialogue.

COO, underscored the indispensability of

adaptability in the face of change within

our rapidly evolving business landscape.

He urged everyone to embrace change.

stressing how our collective ability to

adapt fast is pivotal to sustaining our

From discussing potential challenges to

presenting effective solutions, the Town

Hall served as an invaluable platform

for colleagues to gain profound insights

into the Group's future and partake in

success amidst dynamic challenges.

Mr Koichi Watanabe Mr Koh Kew Sek

Embarking on **Digital Transformation**



Anticipating GT First Fire for **Project Aurora**



Project Aurora – a project entrusted by Nur Generation Sdn Bhd to the Consortium of JEL and EESB - is well into its second year.

The combined cycle power plant project is situated in the heart of the Kulim Hi-Tech Industrial Park (KHTP) in Kedah. Malavsia. Comprising two gas turbines and one steam turbine supplied by Siemens Energy, the Aurora project is poised to deliver a total capacity of 130 MW.

Today, Phase 1 Open Cycle nears completion in July, and Phase 2 activities, including the installation of Combined Cycle Gas Turbines (CCGT), such as Steam Turbine Generator, Heat Recovery Steam Generators, and Air-Cooled Condenser are well underway.

Significant progress has already been made, including the completion of major installations for Gas Turbine Generator bypass stack, Generator Step Up Transformers and Station Service Transformers, 6.6 kV switch gears, uninterrupted power supply and direct current system, air compressor, gas compressor, and Distributed Control System, essential for achieving Phase 1 Open Cycle. Meanwhile, the installation of other critical equipment such as 11 kV switchgear, 415 V switchgear, Motor Control Centre, unit auxiliary transformers, and ongoing works related to electrical building, switchyard, main pipe racks, and Balance of Plant piping installation are progressing steadily.

Despite encountering challenges such as tight project schedules and navigating local regulations and authority permissions, the project team remains committed to achieving the scheduled commercial operation date on time.



Power Capacity



900,000 Safe Man-hours





Looking ahead with GT First Fire attained in June, the project targets Commercial Operation in July, with the total project duration spanning 28 Months since its start in March 2023.

Remarkably, the project has maintained an exemplary safety record, surpassing over 900,000 Man-hours without Lost Time Injuries (LTI) as of March, underscoring the unwavering commitment to safety and excellence from the JEL and EESB teams.









GLOW SPP2 Replacement The (GSPP2R) project marks a significant step forward in energy efficiency through the implementation of a Cogeneration Power Plant. At its core are two units, namely Block 7 – Unit 71 and Unit 72. Comprising a Gas Turbine and Generator (CTG), along with a Heat Recovery Steam Generator (HRSG) featuring supplementary firing, these units are complemented by Balance of Power Plant Systems (BOP).

This setup boasts an electrical output of minimally 30 MW per unit to EGAT's 115 kV system. Furthermore, they contribute significantly to industrial processes by producing between 75 to 115 tonnes per hour of process steam, operating at 485°C and 65 bar pressure.

A key feature of this project is its reliance on natural gas as the primary fuel source, conveniently available at the site boundary. This strategic choice aligns with efforts to reduce carbon emissions and promote cleaner energy solutions.

Situated within the Map Ta Phut industrial estate in Rayong province, approximately 185 km from Bangkok city, Thailand, the plant strategically positions itself to meet the region's growing energy demands while fostering economic development.

practices globally. Through innovation Commencing its journey in February 2022, the project reached a milestone with and collaboration, this venture exemplifies the initiation of the first piling in July 2022. the potential for cogeneration to drive Fast forward to 26 April, the plant has progress towards a more resilient future. achieved commercial operation, marking a triumph in engineering excellence and project management efficiency.

The successful completion of the GSPP2R project by our people not only underscores the commitment to modernizing Thailand's energy infrastructure but also sets a precedent for sustainable energy



Successful Commercial Operation of **GSPP2R** Project

115 tons/h Peak Process Steam

Hsin Tao Restoration Project

The Hsin Tao Combined Cycle Power Plant stands as a robust 600 MW gasfired power project nestled in Hsinchu, Taiwan, continues to serve as a pivotal energy source for the region was first commissioned in March 2002.

However, on 15 March 2022, a fire broke out, affecting unit 1A while units 1B and 1C remained operational. In response, the HsinTao Power Plant GT1A Restoration Project was swiftly initiated. Awarded by GE Vernova International LLC. Taiwan Branch to Jurong Engineering (Overseas) Pte Ltd Taiwan Branch (JELOT), this endeavor aims to restore functionality to the affected unit and fortify the plant's resilience.



Powered by the turbines from GE Power and steam boiler by Doosan Enerbility, this project shall feature a configuration consisting of one steam turbine and three 7F.04 gas turbine units, accompanied by its electric generator.

Mobilization efforts by JELOT commenced in March 2024, beginning the foundation fixator installation works. Subsequent to the on-base placement of the main equipment, namely the Gas Turbine and Generator by GE in May 2024, major construction endeavors will commence. With a steadfast focus on precision and efficiency, construction is expected to culminate in October 2024, marking the completion of the restoration project.



BHCCPP-1 Project Forging Ahead



PT Amman Mineral Nusa Tenggara (AMNT) stands as a cornerstone of Indonesia's mining industry, its commitment to innovation driving the construction of the Batu Hijau Combined Cycle Power Plant-1 (BHCCPP-1)– a 450 MW Gas Based Plant, nestled in West Nusa Tenggara, Indonesia.

In August 2022, AMNT entrusted Jurong Engineering Limited with an Equipment Supply Contract and PT Jurong Engineering Lestari with a Construction Contract.

The BHCCPP-1 boasts a dual-phase construction strategy for optimal adaptability and performance – the simple cycle phase will be completed first followed by combined cycle phase. Siemens' SGT-800 B5 gas turbines form the backbone of the plant's power generation capabilities. With two blocks operating in a 3-3-1 configuration, the plant stands poised to meet the diverse energy needs of AMNT's mining operations, smelter plants, and process plant expansions.

As of April 2024, the project has achieved a commendable progress rate of 63.36%

with a cumulative total of 3,304,574 manhours. Key procurement activities have reached advanced stages, apart from the finalization of insulation materials and addressing design changes for seamless implementation.



Safe Man-hours

On the construction front, sitework is progressing steadily. From the completion and energization of the 150 kV GIS Substation to the erection of all 6 units of HRSG Modules, each achievement denotes a significant step towards operational readiness.

In anticipation of the handover for the simple cycle operation, the commissioning team has been mobilized. April and May mark the successful initiation of the first fire for



GT unit #11 and GT unit #12 respectively, a sign that the project is on track.

Upon completion, the BHCCPP-1 will stand as a testament to innovation and collaboration. This landmark project marks JEL's inaugural EPC endeavor in Indonesia utilizing Siemens' SGT-800 gas turbines. Together JEL and PTJEL will continue to rise to the challenge and surpass the customer's expectations, paving the way for a brighter future.

NNEG Phase 3 Project

The NNEG Phase 3 (NNEG3) project located in the Nava Nakorn Industrial Zone, Pathumthani Province, Thailand, is the third project awarded to Thai Jurong Engineering Limited (TJEL) by Nava Nakorn Electricity Generating Company (NNEG). It entails the deployment of five units of GE/GEG (supplied by IHI Power Systems), HRSG and SCR units, each capable of producing 6 MW. Integrated with the preexisting facility, the 30 MW gas engine cogeneration plant aims to bolster power and industrial process through its supply of 9 tons/h of process steam.



30 MW Power Capacity



9 tons/h Process Steam

In this project, TJEL assumes a pivotal role in this endeavor, overseeing the design, supply chain management, construction, and commissioning of the Cogeneration Plant. While the responsibility for the gas engine generator packages and 115 kV switchyard rests with another EPC Contractor.

As the project progresses towards receiving its gas engine in July, TJEL remains steadfast in addressing emerging challenges. Concerns regarding drawing submission and approval misalignments are diligently monitored, with proactive measures in place to expedite resolution. Through seamless coordination and communication channels, TJEL bridges the gap between procurement, engineering, and site construction teams, ensuring alignment with project objectives and timelines.

Safety remains paramount with meticulous planning and execution strategies in place to safeguard all workers. While this project comes equipped with its own challenges, the TJEL team is confident that their meticulous attention to detail and collaborative spirit with all stakeholders will allow the project to achieve operational excellence.



JEL Maintenance Updates

Cariflex Project

Sembcorp Industries Ltd (SCI) (SUT Div.) plays a pivotal role in supporting the petrochemical and chemical industries on Jurong Island, Singapore, by providing essential utility services ranging from steam and water supply to wastewater treatment.

In February 2023, SCI entrusted JEL Maintenance Pte Ltd (JML) with the Cariflex Utility Supply Project, a vital expansion initiative aimed at catering to the needs of a new customer, Cariflex, at Banyan, Jurong Island.

JML's turn-key EPC scope encompassed the development of a new services corridor complete with a piperack and utility lines for high pressure / medium pressure steam, firewater, demineralized water, process water, and wastewater. The project also involved the installation of essential infrastructure such as steam conditioning stations, pressure-reducing and DE superheating stations, process water pump stations, and an air compressor system. Additionally, upgrades to the existing Supervisory Control and Data Acquisition (SCADA) and the implementation of a new control system were integral to ensuring seamless utility supply.



Despite facing significant challenges from approval processes to the complexity of executing extensive civil works alongside two massive underground crude carrier pipelines, the project team persevered. Through meticulous planning, diligent execution, and effective risk management, the team successfully completed the major scope of the project within a commendable timeframe of 8 months.

In March 2024, the culmination of these efforts was marked by the successful commissioning and supply of all utilities to the customer, Cariflex, signifying JML's capabilities in delivering complex EPC projects.

Rooftop PV Solar Project

Changi Airport Group (CAG) has embarked on an initiative to harness solar energy by implementing photovoltaic (PV) systems on the roofs of various buildings across its premises. This move aligns with Singapore's commitment to sustainable development and reducing carbon emissions.

Last September, Keppel engaged JML to develop PV solar systems at Changi Airport's Terminal 1 and 2, along with its Cargo buildings. The project aims to establish a substantial capacity of 17 megawatts-peak (Mwp) with the installation of a remarkable 31,244 solar panels across designated rooftops, marking a significant stride towards clean energy adoption in the aviation sector.

Keppel assumes the role of solar developer, while JML takes charge of engineering, procurement, and construction (EPC) responsibilities. With the remarkable number of projects JML has done for the past years, the team is confident this strategic partnership will allow the project to be executed well.

As of today, meticulous planning and coordination have culminated in the finalization of site drawings, signaling the commencement of construction activities. Construction progress at site is well underway and the project firmly on track for completion. Anticipated testing slated for September reflects the steadfast commitment to meeting project milestones.

Beyond demonstrating CAG's unwavering dedication to environmental stewardship, this project once again positions JML as a trusted provider of EPC services, enabling clients to harness the full potential of solar power with confidence.



17 MWp Solar Energy

Major Outage Works for M5 Boiler

In the 1,000 MW Manjung 5 (M5) Power Plant, the Boiler Final Reheater Tube Replacement work was enlisted by the client, TNB, aimed at boosting efficiency and performance in just 44 mechanical days.

With 1,218 old tubes cut and removed across 87 panels, they were replaced with SA213 TP310HCBN tubes, a new and improved material from Nippon Steel.

Beveling 2,436 tube ends ensured seamless fitment, while the radiography of all 2,436 butt weld joints ensured structural integrity. Additionally, 3,396 spacer and stopper joints underwent Dye Penetration Testing for reliability. Accessories like clamps, seal plates, and water wall tube joints were also installed, reinforcing the boiler functionality.

This successful outage work stands as a testament to JMLM's capabilities in plant maintenance.



Major Inspection Works for Tanjung Bin Unit #10

TOS Energy, Malaysia, recently oversaw a major inspection of the 700 MW steam turbine and generator at Tanjung Bin Unit #10. This meticulous endeavor was conducted by the JMLM team within a tightly scheduled 60-day planned outage during the first quarter of 2024.

The inspection encompassed a thorough assessment of critical components, including the 700 MW steam turbine, generator, and main steam valve. From the high-pressure turbine, intermediatepressure turbine, and two low-pressure turbines, the inspection team meticulously scrutinized each component for signs of operational inefficiencies.

Notably, the rotor of the high-pressure turbine underwent replacement, ensuring optimal performance and longevity. For the main steam valves, the inspection team examined four units of main stop valves, four units of control valves, two units of combined reheat valves, and one unit of ventilator valve. This comprehensive assessment aimed to identify any anomalies or malfunctions that could potentially compromise the efficiency and safety of the steam generation process.

In addition to the steam turbine and main steam valves, the inspection included a detailed examination of the generator.

The successful completion of this major inspection by the JMLM team allows TOS Energy to ensure the continued efficiency and longevity of the power generation infrastructure at Tanjung Bin Unit #10.



Enhancing NDT Efficiency: A Dive into Digital Radiography

In a recent visit to A*STAR, our QMS colleagues were introduced to the cutting-edge concept of Digital Radiography (DR) that seeks to revolutionize the inspection process for welded pipes in new plant constructions and corrosion under insulation inspections of in-service piping.

Their visit entailed an illuminating demonstration of Digital Radiography's seamless data capture process during object examination. This data is swiftly transferred to a computer through various methods, including:

Real-time Radiography (RTR)



RTR units employ a low-energy X-ray tube to project a radiation beam onto a Digital Detector Array (DDA), providing real-time imaging capabilities.

Digital Radiography using DDA



An advanced form of X-ray technique, this method delivers instant digital radiographic images directly onto a computer screen. Utilizing flat panel detectors known as DDAs, this method confers greater efficiency and accuracy.

Computed Radiography (CR)



The CR system employs a digital radiographic technique akin to traditional film-based systems However, instead of film, it utilizes a photostimulable phosphor plate for image capture, enhancing speed and convenience.

Conventional Film Digitizing using a Scanning Digitizer Conversion



This method facilitates rapid image retrieval through database management. allowing for seamless searching, sorting, and retrieval within seconds, all stored in the cloud for easy access.

Source: A*STAR

The exploration of these methods heralds a shift in Non-Destructive Testing (NDT) practices. By eliminating the need for chemical processing and darkrooms associated with conventional film-based techniques, DR streamlines workflows and significantly enhances efficiency. Moreover, storing images in the cloud eliminates the need for physical storage in temperature and humidity-controlled environments, ushering in a new era of cost-effectiveness and environmental sustainability.

Through initiatives like these, JEL Group reaffirms its position as a trailblazer in the industry, setting the standard for quality and performance across the board.

Aini Bte Mustafa

Coordinator, Construction 1 Department

It had been quite some time since I last donned a full set of Personal Protective Equipment (PPE) and gone around an active work site. The trip was a nice change from our daily office routine and was even more meaningful as this was my first time visiting a project site with my colleagues whom i have worked with on numerous projects.

Among the notable sights in BCC2 was the Control and Administration Building, with its striking rotunda-shaped exterior and interior. The colossal Storage Tank, with its capacity of 18,000 m3, sparked a newfound interest in me on water management.

I also vividly recall my encounter with the cooling tower, the refreshing breeze of its water was unlike any other experience.

Given the opportunity to choose our next destination. I would greatly appreciate the chance to visit ongoing projects in the MENA region, particularly the Fujairah F3 project. Hearing my colleagues' accounts of their experiences stationed in MENA projects has piqued my curiosity about the lifestyles they lead and the projects they work on.

Thank you to the management team for granting us the opportunity to venture out to the site!

Takahiro Shoji Accountant, Finance & Accounting Department

For me, the most meaningful aspect of the trip would have to be the opportunity to bridge the gap between the theoretical knowledge I have gained through documents and witnessing the actual job site.

Coming from Finance, cash flow control is paramount especially in relation to monitoring project milestones like hydro-testing of steam drums/harps and delivery of module boxes/outlet stacks. Every month, I review the vendors' monthly main progress report and update the cashflow projection accordingly. As I have only seen these milestones described on paper, I could never truly comprehend the significance and intricacies of their processes.

However, after this trip, I have gained a deeper understanding of the actual site operations, allowing me to grasp the significance of each milestone with greater clarity. I now feel more equipped to reflect cash flow projections accurately and realistically.

Given the evolving landscape of global energy, where clean sources like hydrogen and ammonia are gaining prominence not only worldwide but also within the IHI Group, I am keen to visit such project sites to broaden my knowledge of the construction processes so as to contribute more effectively to our finance operations in the future.





Lee Zhe Wang

Desian Engineer. Civil & Structure Department

The most profound impression from my visit was the striking symbiosis between technological prowess and engineering precision. As we explored the power plant, I was awestruck by its vast scale and the meticulous planning evident in its design and operations.

Interacting with the plant's personnel offered invaluable insights into the intricacies of power generation and underscored the growing importance of sustainability in modern industrial endeavours.

An unexpected highlight was the chance to ascend the HRSG at the BCC2 plant, granting us a breathtaking view of the industrial landscape and perhaps even a firsthand encounter with acrophobia.

Reflecting on my experience, I am eager for future opportunities to explore and deepen my understanding about other types of power plants, such as coal-fired or waste-to-energy plants.





Brenda Liew Chooi Teng Deputy Head, Compensation & Benefits Section

This visit has deepened my appreciation for the immense effort put in by the project teams at JEL Group. Their dedication to meticulous plant design and strategic planning has undoubtedly been the cornerstone of our collective SUCCESS

Moreover, the opportunity to engage with colleagues from various departments has been invaluable. It provided a unique glimpse into their perspectives and fostered stronger collaboration across teams

I'm sincerely grateful to the management for their generous support, ensuring our trip was not only productive but also eniovable with excellent food and accommodation. A special shout-out to the TJEL team for their warm hospitality.

If another opportunity arises, I'm very keen on visiting the power plants in Japan!

Getting Up Close with Power Plants

This year, our staff had the incredible opportunity to visit Thailand and explore the Bangkok Cogeneration Plant and Ratch Pathana Energy Plant (formerly Sahacogen Plant). For many of them, this was their first-time experiencing power plants up close, creating unforgettable memories.

Tan Su Hui

Logistic Officer, Shipping Department

Being in JEL for only a year, my interactions were primarily limited to my own department. Through this visit, i had the delightful opportunity to engage with colleagues from other departments for which these conversations proved enlightening as I gained a broader understanding of the organization's dynamics and the roles each department plays within JEL.

To me, the most memorable experience was the ascent of the Heat Recovery Steam Generator (HRSG). Knowing that not all visitors are granted this opportunity, I am deeply appreciative to the gracious hosts at BCC2 for providing this unique experience. As someone who harbors a fear of heights, it served as a personal challenge, yet one I embraced wholeheartedly.

Exploring both the BCC2 power plant and the Ratch Pathana Energy construction site has been immensely educational. The interaction with the Project Managers allowed me to glimpse the challenges of these projects and I also got to learned how various equipment operates within the power plant.

Many thanks to the Project Managers for their patience in guiding us through the sites, addressing our queries comprehensively, and providing detailed explanations!





Danielle Hend Legal Counsel, Legal Department

The most memorable aspect of my visit was delving into the intricate processes behind electricity generation. It was fascinating to observe firsthand the workings of a power plant and grasp the multitude of factors influencing its efficiency.

What truly struck me was the sheer scale of operations. Witnessing the numerous components of the plant working in unison underscored the complexity involved and the necessity for flawless synchronization to ensure its smooth operation.



with Ms Kita, Site Admin



Suwimol Rittiphan (Kita) Thai Jurong Engineering Limited Admin Officer

















Presently, I oversee vital tasks to ensure smooth operation and compliance at the site. This entails numerous responsibilities, including but not limited to managing workers' timesheets and payroll, orchestrating seamless arrangements for food and transportation, meticulously monitoring visa applications, sourcing accommodations for our workforce, diligently documenting and compiling reports for submissions, and liaising with stakeholders.

What is your most memorable experience over the years at the site and why?

That would be the 9.8 MW Saha Cogeneration Power Plant Expansion 1 Project when the gas turbine faced an unexpected malfunction rendering it unable to run. The situation was highly critical and in the face of this predicament, the site manager, Mr Lim Hark Chong, immediately rallied us to action. Despite the late hour, we returned to site and ceaselessly worked into the early hours of the next morning. Finally, we managed to rectify the issue before 6 am.

This experience was highly memorable as I find myself looking back at times, amazed by the collaborative spirit and tenacity of our people.

What is the best thing about your job?

What I find most rewarding about my job is the opportunity it provides to tackle intricate challenges and experience the satisfaction of overcoming them. Furthermore, the collaborative atmosphere of my workplace fosters teamwork with incredibly skilled and dedicated individuals, making each day both stimulating and fulfilling.

What are the qualities/ values you find most important in your line of work?

In my line of work, it is crucial to uphold regulatory and guality standards, efficiently manage paperwork, coordinate with all department sections, and establish data collection accurately and analysis procedures for staff and workers.

Additionally, I deeply value the principles of critical thinking, meticulous observation, thorough understanding, and a genuine appreciation for both individuals and the company.

Think more, Observe more. Appreciate more.

Daily Schedule

my meal.

Process paperwork.

Arrange transportation to pick up our staff and workers.

and workers

their accommodation.

Analyse the workers' timesheets for the Daily Manpower Record.

Arrange for transportation and ad-hoc support for the team.

Purchase lunch for our staff.

Lunch. I take this time to listen to music or read online news after

Order meals for our staff and workers who work overtime.

Distribute meals to our staff

Arrange transportation to send our staff and workers back to

How do you usually spend your leisure time or unwind after work?

Weekdays typically conclude with late hours at the site, leaving me with little time for anything beyond a quick stop at the minimart. However, I cherish the opportunity to return home and indulge in the joy of preparing dinner for my family.

As Saturday draws to a close, I find solace in unwinding at a massage or onsen spa, a well-deserved respite after a day's work.

Sunday is my cherished day of leisure. While I still have household chores and errands to run. I carve out moments for relaxation in the evening. Whether whipping up a homecooked meal or opting for a delightful dinner at a restaurant, the day culminates with a tranquil movie night, a perfect conclusion to the weekend.

What Thai festival do you enjoy the most?

One of my favorite celebrations is Songkran! Songkran isn't just about water play; it's the traditional Thai New Year's beginning. This festival holds significant importance as it brings everyone home for our annual family reunion. We enjoy delicious food, share delightful anecdotes, and, of course, the highlight - playing with water.

Splashing water on this day symbolizes cleansing the misfortunes of the past year and welcoming a fresh start. It's a gesture of spreading happiness and love, not just among our loved ones but also to people we meet on the streets.

Do you have any favourite Thai drama/ movie/music that you would like to recommend to overseas colleagues and why?

I highly praise the drama "Buppesannivas" (Love Destiny) for its captivating portrayal of Traditional Thai clothing and its profound delve into Thai culture, Ayutthaya, and historical narratives. The series tantalizes viewers with delectable Thai cuisine that will definitely spark a craving. With heartwarming moments and humorous scenes, it guarantees smiles and laughter, making it a great watch for all ages.

Finally, as an avid lover for instrumental music, I would like to recommend our colleagues the song: "Kham Warn" (Sweet Word). It is one of my favourite pieces of music by the Thailand Philharmonic Orches. In this song, you can hear "Saw U" a Thai instrument as one of the main focal instrument.

CULTURAL FANTASY **STAFF PARTY 2024**

Cultural Fantasy

This year's Staff Party unfolded with an enchanting "Cultural Fantasy" theme at Conrad Singapore Orchard. The atmosphere was vibrant with various activities like Henna painting, offering our colleagues a chance to immerse themselves in different cultural experiences. From Korean hanboks to Vietnamese ao dai and Mexican attire, the diversity in outfits added to the festive ambiance.

Kicking off the night, JEL MD & CEO, Mr Koichi Watanabe, delivered a short speech, extending a warm welcome to everyone, expressing his gratitude to the staff for their unwavering dedication and sharing his aspirations for continued improvement in the year ahead. The speech ended, setting the mood high for a fun-filled night.

As the staff savored the delectable dishes, the awardees of Annual Safety Performance, Quality Campaign and i-JEL Safety 2023 were invited to the stage for a prize-giving ceremony. The evening continued with a series of engaging games, with the spotlight turned to the dance battle among the best-dressed!

Before the night drew to a close, everyone gathered for the iconic JEL song, raising their glasses in a final toast to unity and success! It was a joyous celebration, transcending boundaries and fostering a sense of belonging within the JEL Group.







Elevating Excellence: Quality Campaign



Congratulations to Mr Murugesh Rathina Nadar from the Matarbari project and Mr Eka Yuana from the Manyar Smelter Plant project, with Mr Nanang Irwanto collecting on behalf of the latter, for exemplifying exceptional quality leadership!

*i***-JEL** Safety Campaign

In the pursuit of elevating safety standards across all facets of JEL Group's operations, last year's i-JEL Safety campaign took center stage, fostering a culture of innovation and vigilance to prevent near-miss incidents, injuries, and property damage.

From March to June, the campaign served as a platform for staff to share their ideas, towards enhancing safety protocols in both sitespecific and daily operational contexts.

Following rigorous evaluations by the HSE department alongside the Management committee, the final winners were selected.

Securing the 1st place is Ms Angelica Tunung Handrice from the Sarawak Methanol project site. Angelica's approach to foster a robust safety culture through various initiatives like the JSA White Board Program have been practiced daily at

site, empowering workers to proactively identify and resolve potential work hazards. Under the support of the management, these initiatives have also heightened productivity and customer satisfaction.

Furthermore, JEL's MD & CEO, Mr Koichi Watanabe visited the Sarawak Methanol Project (SMP) site, driven to understand the robust safety culture. During his visit, he met with Ms Angelica, delving deeper into her idea. Through this visit, he hopes to inspire every site within the Group to continue upholding and even surpass the benchmark set by SMP.



The latest JEL Group Quality Campaign represents the culmination of two years of steadfast dedication to aligning with the principles outlined in the IHI Group Quality Declaration. This campaign is integral to instill motivation and inspire a culture of excellence across every facet of the Group.

Building upon the success of the first Quality campaign in 2022, last year's campaign unfolded in November and was opened to the Site Quality Control Managers of JEL Group. The selection criteria are set by Quality Management Section (QMS) to ensure a fair and rigorous evaluation process. Factors such as performance across welding rejection rates, participation in QMS meetings, and demonstration of exemplary quality leadership and execution are meticulously evaluated through a comprehensive score point system.

At its core, the Quality Campaign organized by QMS epitomizes the Group's relentless pursuit of excellence. By striving and encouraging continuous improvement and unwavering dedication to quality, it reinforces the Group's reputation as a benchmark of operational excellence and a paragon of customer satisfaction.



Hearty congratulations to the 3 winners!

Claiming the 2nd place is Mr Sandeep Jain from OCGT project site. Sandeep has taken the lead to develop an Online PTW (Permit to Work) System, overhauling the previous way of using paperbased forms for authorisation and tracking. Today, this Online PTW System provides real-time insights into the number of permits applied, type of permits and manpower distribution.

Last but the not least, the 3rd place goes to Mr Thanaphum Talubnin from the Matarbari Coal Fired Power project site. His resourceful idea of repurposing plastic bottles to prevent hand and finger injuries while operating pulleys exemplified the ingenuity of JEL Group's workforce

To all participants of the i-JEL campaign, your contributions were invaluable in advancing our safety agenda. As we look ahead, let's continue to cultivate a culture of safety innovation, ensuring the wellbeing of our team and the success of our projects. Here's to even greater achievements in the next iteration of the i-JEL campaign!



Lunar New Year Lou Hei

In February, everyone came together to witness the thrilling lion dance performance and intricate dragon dance - known for bringing good luck and prosperity. Captivated, everyone watched as the two "animals" danced to the rhythmic beats of the drums and cymbals. This year's adorable dragon mascot also stole the show as everyone eagerly reached out to touch it, hoping for some extra "Huat"!

The energy soared during the lively Lou Hei session, where our staff enthusiastically tossed the Yu Sheng as high as possible and chanted "Huat Ah" (meaning "Prosper Ah" in Hokkien) for that extra dose of good fortune. Wrapping up with a delightful lunch buffet, everyone left contented and satisfied.







In 2022, Singapore grappled with a staggering volume of solid waste, tallying up to approximately 7.39 million tonnes, of which 1 million tonnes consisted of plastics. To put this into perspective, envision 25,000 trucks, each bearing a load of 40,000 kilograms of plastics - that's the sheer enormity of the plastic waste generated in just one year. Adding to the concern, only a dismal 6% of plastics are being recycled, exacerbating environmental pressures.

In response to this urgent call for action, and in alignment with the ethos of Zero Waste Day observed on 30 March, JEL initiated a campaign aimed at waste reduction within the office environment.

Employees were encouraged to adopt a simple yet impactful practice: bringing their own cutlery to work, thereby avoiding the need for single-use disposable alternatives. Recognizing the power of collective action, each individual's contribution amounts to a significant stride towards curbing the reliance on single-use plastics.

This campaign's success is not just measured in the tangible reduction of waste within our workplace, but also in the cultivation of a culture of sustainability and conscientious consumption. We commend and extend our gratitude to all staff members who embraced this initiative wholeheartedly.

For those who have yet to join the movement, we extend a sincere invitation - it's never too late to embark on the journey towards environmental stewardship. Let us unite in our efforts to safeguard the well-being of our planet, one conscientious choice at a time.





Food Bank

The March trip down to Food Bank marks our 3rd session the organization which aims to alleviate food insecurity in Singapore through food donations. These food donations not only go to beneficiaries like lower-income families and seniors but are also a sustainable way in which the local community can reduce food wastage.

We would like to express our thanks to the staff who volunteered their time and effort in this run.

Hari Raya Lunch Buffet

As Hari Raya dawned, the spirit of celebration enveloped us all as our colleagues adorned themselves in vibrant traditional Malay attire, adding to the festivity.

Gathered together, we were tantalized with the sumptuous aromas wafting from the buffet. From tender curry sotong to savory satay skewers, each dish bore the hallmark of Malay culinary craftsmanship.

Amidst laughter and lively conversation, we indulged in an array of delectable desserts, from fragrant pulut hitam to delicate kuih, each bite a testament to the sweetness of the occasion.

But beyond the feast laid before us, Hari Raya served as a poignant reminder of unity and togetherness, as friends and family from diverse backgrounds came together in harmony, celebrating the bonds that unite us all.





Zero Waste Campaign

Preserving OUR OCEAN









36 kg General Waste



57.9 kg Seaweed In honor of World Oceans Day on 8 June, JEL invited our dedicated staff to join hands in a coastal cleanup at Pasir Ris Beach. Teaming up with the local charity organization, Ocean Purpose Project (OPP), committed to environmental conservation and remediation, we set out on a mission to clean up the Beach.

Beyond merely collecting litter strewn across the shoreline, our volunteers separated plastic waste for subsequent conversion into fuel through pyrolysis. As part of OPP's conservation efforts, volunteers were also tasked to gather the seaweed blanketing the shore. This seaweed is a precious resource that can be composted into nutrient-rich soil and converted into biodegradable plastic alternatives.

Throughout the session, volunteers were not just participants but avid learners, immersing themselves in the wonders of marine ecology. Delving into the realm of seaweed, they learned about the 20 over different species thriving in Singaporean waters, each playing a vital role in filtering our waters – serving as an invaluable reminder of the remarkable potential of nature.



To our dedicated volunteers, we extend our heartfelt gratitude for dedicating their time and energy to this cause. Each individual's contribution, no matter how small, serves as a beacon of hope for the preservation of our oceans – a vibrant habitat teeming with diverse aquatic life forms and an indispensable pillar of our planet's ecosystem.

To our dedicated volunteers, we extend our heartfelt gratitude for dedicating their time and energy to this cause. Each individual's For those intrigued by the endeavors of OPP, we encourage you to explore their initiatives further from their website.

Together, we can make a tangible difference, leaving behind the beautiful oceans for generations to come!

Navigating the Digital Age: Responsible Disposal of E-Waste

In today's rapidly advancing digital age, it has become common practice for individuals to upgrade their electronicssuch as phones—every few years, or even annually. While responsible consumption is crucial, upgrading to newer models can sometimes be necessary. However, have you considered what happens to these gadgets once they reach the end of their lifecycle?

Disposing of electronic waste (e-waste) responsibly is not only essential for safeguarding the environment but also for protecting your personal data.

Addressing Potential Environmental Impacts

Improper disposal can lead to hazardous materials like lead, mercury, and cadmium contaminating soil, water, and air, posing serious health risks to communities and wildlife

To combat this issue, adopting the principles of the 3Rs - Reduce, Reuse, Recycle - is imperative.

- 1. Reducing e-waste begins with repairing electronics whenever possible.
 - Check out Repair Kopitiam, established in 2014, committed to tackling waste in Singapore. Through their initiative of teaching people how to repair their belongings, including electronics, they aim to give these items a new lease of life.

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- 2. By reusing functional devices through donation or resale, you can extend their lifespan, benefiting both charitable organizations and individuals in need
- 3. Finally, recycling electronics at authorized centers ensures that hazardous materials are handled properly and that valuable metals and components are recovered.

In Singapore, for instance, ALBA e-waste recycling bins are conveniently located in community centers and retail outlets such as Best Denki, Challenger, and FairPrice. These bins provide a safe and accessible way to dispose electronics.

Mitigating Data Security Risks

Beyond environmental concerns, improper disposal raises serious data security issues. Failing to erase or destroy sensitive information before disposing devices can lead to data breaches and identity theft. Personal, financial, and proprietary data stored on these devices can be exploited if not properly managed.

Here are recommended steps for responsible disposal:

- Manufacturer Takeback Programs Check if the manufacturer of your device offers takeback programs for recycling or proper disposal
- Authorised E-Waste Recyclers Alternatively, choose authorised e-waste recyclers that follow certified standards for data security and environmental protection.

Before disposing a device, consider adopting these measures:

• Data Wiping

Before disposing a device, use reliable data wiping software or perform a factory reset to erase all data and sensitive information from devices before disposal.

- Physical Destruction Consider physically destroying storage devices to prevent data recovery.
- Remove External Storage Don't forget to remove memory cards or USB drives before disposal.

 Battery Disposal Batteries must be removed from devices before recycling and disposed separately in designated battery bins.



I can see JEL had embarked in recycling of waste effort through providing 3 separate types of waste bins, paper, general and plastic bottles. We can extend the 3Rs approach in waste management to include e-waste to save our planet Earth.

Mr Osman Bin Maieed. Head of Health. Safety and Environmental (HSE)



Responsible e-waste disposal not only protects our environment and safeguards sensitive data but also promotes sustainability and mitigates security risks. By spreading awareness about responsible e-waste disposal among friends, family, and colleagues, we can make a positive impact on the planet while preserving our privacy in this digital age.

You can discover additional information about recycling your e-waste by scanning or clicking on the QR code.



Circular Fashion: Embracing Second-Hand Style

In 2022, Singapore churned out a staggering 254,000 tons of textile and leather waste annually, yet only a mere 2 percent of this waste finds its way back into the recycling loop (2% down from 2021). This alarming statistic not only exacerbates Singapore's landfill crisis but also significantly contributes to the looming specter of climate change.

Furthermore, many clothing produced today comprise a blend of natural and synthetic fibers, making it difficult to separate for recycling. As such, recycling is not an option that we can rely on to significantly reduce waste.

To combat this pressing issue, the imperative lies in reframing our approach to clothing consumption. Rather than perpetuating the cycle of fast fashion and its detrimental environmental consequences, we must embrace the ethos of circular fashion, starting with the simple act of giving pre-loved garments a chance to shine once again.

Mindful consumption is the cornerstone of this paradigm shift. By consciously opting for second-hand clothing over mass-produced fast fashion items from brands like Shein, Cotton-On, Uniglo, we can significantly reduce our carbon footprint and alleviate the strain on our planet's resources.

Thrift shops are now one of the modes of sustainable shopping, offering a treasure trove of pre-owned apparel waiting to be rediscovered.

The burgeoning popularity of thrift shopping in Singapore underscores a growing awareness among its populace regarding the environmental impact of their consumer choices. These establishments can allow you to curate unique, eco-conscious wardrobes at a fraction of the cost.

Here are three thrift shops in Singapore worth exploring, each offering a curated selection of pre-owned (sometimes even brand-new) clothing that resonates with both style and sustainability:

SiloamXperience Outreach Limited

A'Posh BizHub





Type of Items Sold 77 m

*All thrift shops accept donations.

Moreover, beyond the thrill of discovering hidden gems, these shops also accept clothing donations. By parting ways with garments that no longer spark joy, you can declutter your homes while simultaneously extending the lifecycle of these items and minimizing textile waste.

In embracing circular fashion and advocating second-hand clothing, we not only mitigate the environmental toll of our consumption patterns but also pave the way for a more sustainable and inclusive future for fashion. It's time to reimagine the way we dress, one conscious choice at a time.





Refash

Multiple outlets





Nightingale Thrift Shop

Queensway Shopping Centre



Type of Items Sold



Editorial Notes

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