

Powering Southern Gateways

APRIL 2019

SOUTHERN

P O I N T

PORT CENTRE
OF EXCELLENCE

GREENING THE OFFICE



PERSONALITY

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Tanjung Langsat Port



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PORT CENTRE OF EXCELLENCE

Objective

To become the first port of choice in the region while ensuring sustainable human capital development and creating a knowledge sharing platform for all interested parties in the port, maritime, shipping and other related sector.

Mission

- To coordinate and develop current programs from various related agencies and meet the future needs of the industry.
- Promote activities conducted by PCOE.
- Invite other agencies and assist in the dissemination and training.



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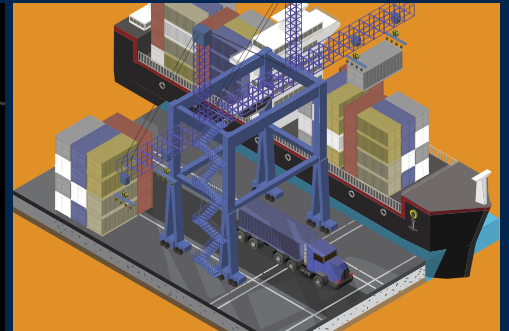
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“BACK TO SCHOOL” JOHOR PORT AUTHORITY CORPORATE SOCIAL RESPONSIBILITIES (CSR)



3rd Disember 2017, Pasir Gudang - The Johor Port Authority (LPJ) through its corporate social responsibility (CSR) initiative had implemented a “Back to School” programme to help the less fortunate especially those living in the rural areas. This programme helped low-income students to purchase school supplies in preparation for schooling in 2018.

45 students comprising both primary and secondary school students in the Pasir Gudang area aged between 7 to 16 years old received school supplies such as school uniforms, shoes, bags, and stationery. The aim of the program is to help ease the burden of poor parents in preparing their children’s school equipment in the hope that they can stimulate and motivate their lives, especially their education.

17 LPJ volunteers assisted the CSR program where school purchases were held at Mydin Mall, Taman Rinting, Johor. The children were also provided with the Marrybrown lunch at the end of the programme.

JOHOR PORT AUTHORITY VISIT TO PELINDO 1, MEDAN INDONESIA

6th & 7th November 2017, Medan, Indonesia - The Johor Port Authority (LPJ) had an official visit to PELINDO 1 Indonesia, attended by 8 members of the Board of Directors of LPJ / LPJTP, the representative of the LPJ Corporate Services Unit and the representative of Johor Port Berhad. The purpose of this visit was to sign a “Sister Port” MOU between the LPJ and PELINDO 1. The signing of this MOU was officiated by Mr. Muhammad Razif bin Ahmad, General Manager of LPJ and representative of PELINDO 1, Mr. Iman A. Sulaiman, Director of Planning and Development at Deli City Passenger Terminal on 7th November 2017. The Board of Directors of LPJ / LPJTP, a representative of PELINDO 1 operator and attendees at the event witnessed the signing ceremony. With the signing of “Sister Port” MOU, the process of knowledge sharing in ports Johor and the port of PELINDO 1 will be continued. Information sharing is necessary to ensure that both ports are more competitive and pro-active and will be widely known throughout the world.



JOHOR PORT AUTHORITY (LPJ) AND PT PORT INDONESIA 1 (PELINDO 1) MOU SIGNING CEREMONY



29th Disember 2017, Pasir Gudang - Johor Port Authority (LPJ) has signed a Memorandum of Understanding with PT Port Indonesia 1 (PELINDO 1). The agreement was signed on based on the visit from the Board of Directors of LPJ to Medan, Indonesia on 5th November till 9th November 2017. 3 delegates from PELINDO 1 attended this event, Mr. Bambang Eka Cahyana, President Director of PT Port Indonesia 1, Mr. Sandhy Wijaya and Mr. Rizki Affandi Nasution. The event was also attended by Yang Berhormat Dato 'Abdul Rahim bin Ramli, Chairman of LPJ & LPJTP, LPJ & LPJTP Board of Directors, Johor Port Berhad (JPB) officers, Port Tg. Release (PTP) and LPJ officers. This agreement was signed by Mr Muhammad Razif bin Ahmad, General Manager of LPJ on behalf of LPJ and Mr. Bambang Eka Cahyana, President Director of PT Port Indonesia 1 on behalf of PELINDO 1. The event was witnessed by Yang Berhormat Dato' Abdul Rahim bin Ramli, Chairman of LPJ & LPJTP.

The purpose of this agreement is to establish a cooperative relationship between LPJ and PELINDO 1, especially in areas related to port studies, training, information exchange, technical assistance and traffic development and promotion of services provided by JPB, PTP and PELINDO 1.

With this agreement, both sides can contribute and increase the mutual interest in continuing co-operation and understanding between ports in both countries.



JPA Participates in Exhibition for Day of the Seafarer 2018 Celebration

PASIR GUDANG, 25 June 2018 - To enliven the Seafarer Day 2018 organised by the Central Mercantile Marine Fund (CMMF) of Marine Department Malaysia, Johor Port Authority (JPA) was invited to participate in the exhibition at the event. JPA's participation in this event is to inform port users and the general public on the implementation and importance of two online systems currently utilized by JPA in handling traffic at sea and at the ports. The two systems are Vessel Traffic Management System (VTMS) and Port Traffic Management System (PTMS).

The Seafarer Day was officiated by YBhg Dato' Rossid bin Musa, Deputy Director General, Marine Department Malaysia. The event was also attended by Mr. Muhammad Razif Bin Ahmad, General Manager of JPA and Assistant General Manager of JPA Corporate Services & Development. In addition, the event was also filled with several informative programmes such as Career Talk, Entrepreneurship Seminar and Inland Revenue Board Seminar (IRB) and was attended by students from several secondary schools around Pasir Gudang.

Joint CSR Programme Between JPA and Ministry of Transport Malaysia



BENTONG, 2 May 2018 - Concerned over the development and environment especially those living in rural areas, a Corporate Social Responsibility (CSR) programme initiative has been organised by the Ministry of Transport Malaysia in collaboration with the Johor Port Authority (JPA).

Among the CSR activities carried out include painting a computer lab building, school fencing and the 3-storey primary school building located at Sekolah Rendah Pelangi, Kampung Jawi-Jawi, Bentong, Pahang. A total of 13 JPA officers have volunteered in this program which was also participated by representative from the Ministry of Transport Malaysia, Mr. Sallehudin and the representatives of the school's Parent Teacher Association (PIBG). The programme has been successfully conducted on 2 May 2018 and was completed on 3 May 2018 at 5.00 pm.



16TH ASEAN PORTS & SHIPPING 2018



PASIR GUDANG, 4 JULY 2018 - The 16th ASEAN Ports & Shipping 2018 International Conference and Exhibition which was held between 3 July and 5 July 2018 at the Renaissance Hotel, Johor Bahru. Johor Port Authority (JPA) was given the mandate to host the conference and exhibition for this year. This is the second time JPA was given the trust to host the conference and exhibition in 2007.

It was informed that more than 300 delegates from ASEAN countries, and some from other countries such as Hong Kong, Korea, Australia, Germany, United Kingdom, Netherlands and Finland were present for this event. Meanwhile, a total of 28 companies from various departments and agencies both local and foreign has participated in the exhibition which was organised by Transport Events. JPA, together with Johor Port Berhad (JPB) and Port of Tanjung Pelepas (PTP) has jointly participated in the exhibition under the Malaysia's Southern Gateway marquee. Online systems such as Vessel Traffic Management System (VTMS), Port Traffic Management System (PTMS) and Ship Emission Management System (SEMS) were also exhibited and introduced to the attendees.



On 3 July 2018, a day before the conference, delegates were taken for a technical visit to JPA Headquarters in Pasir Gudang, Johor Port Berhad (JPB) and Port of Tanjung Pelepas (PTP). The briefing sessions during this technical visit were presented by En. Ahmad Salhin bin Mustapa, Assistant General Manager for JPA Corporate Services & Development Division, Mdm. Rahimah Rahmat representing JPB and Mr. Eric Yap Chee Meng representing PTP. The 16th ASEAN Ports & Shipping 2018 was officiated by Mr. Mohd Khairul Adib Abd Rahman, Deputy Secretary General (Policy), Ministry of Transport Malaysia on 4 July 2018 at Renaissance Hotel Johor Bahru. The event was also attended by Yang Berhormat Dato' Abdul Rahim bin Ramli, Chairman of JPA & JPATP and Mr. Muhammad Razif bin Ahmad, General Manager of JPA.



Corporate Social Responsibility (CSR) Programme Ramadhan Mubarak 2018 Assistance



PASIR GUDANG, 25 MAY 2018 - Concerned over the fate of the less fortunate especially those who lived in rural area, Johor Port Authority (JPA) through its Corporate Social Responsibility (CSR) initiative has organised the Ramadhan Mubarak 2018 Assistance – Johor Port Authority Programme. This programme is to provide assistance to the less fortunate asnaf to shop for some attire as a preparation for the upcoming Hari Raya Aidilfitri.

A total of 104 students consisting of primary and secondary from the Pasir Gudang vicinity aged between 7 and 16 years old received the Hari Raya aid such as baju melayu / kurung, pants, shoes, songkoks and head scarves. The main goal for this programme is to lessen the burden of the less fortunate families in preparing for the Hari Raya. Additionally, the programme fostered

good silaturahmi amongst fellow human beings and at the same time cheered up and brought joy to these children to celebrate for the upcoming 1 Syawal.

JPA has also sponsored a pair of spectacles to Muhammad Nasrullah bin Abdul Hamid, a student from the asnaf family who is suffering from a chronic eyesight disorder. JPA hoped that the aid provided will be of help in his future learning process.

All aids was later handed by The Honourable Dato' Abdul Rahim bin Ramli, Chairman of Johor Port Authority and accompanied by Mr. Muhammad Razif bin Ahmad, General Manager of Johor Port Authority during open fast programme with all the asnaf families at Tanjung Puteri Golf Resort.

JOINT COLLABORATION BETWEEN JOHOR PORT AUTHORITY AND PORT OF TANJUNG PELEPAS TO ORGANISED MOTIVATIONAL WORKSHOP FOR SPM STUDENTS 2018

28 JULY 2018, PASIR GUDANG - Johor Port Authority (JPA) and Port of Tanjung Pelepas (PTP) has organised a Motivational Workshop for SPM Students at JPA Headquarters, Pasir Gudang. The programme is one of the Corporate Social Responsibility (CSR) for both JPA and PTP for the community, schools and students around Gelang Patah. The objective of this programme is to motivate students to improve learning and the spirit to excel in preparation for the SPM examination this year. In addition, the workshop is also expected to enable them to apply positive aura in studying at schools and everyday life in producing outstanding students in academic and personality.

Four schools from Gelang Patah with a total of 102 students have been selected to participate in this motivational programme. The selected schools are SMK Tanjung Adang, SMK Gelang Patah, SMK Sultan Abu Bakar Complex and SMK Taman Nusajaya. A total of 9 children of JPA staffs who will take the SPM examination are also participated in the programme.



The Motivation Programme Closing ceremony was officiated by Mr. Ahmad Salhin bin Mustapa, Assistant General Manager of Corporate Services & Development Division, JPA, which was witnessed by Mr. Shahrudin Zainal Abidin, Student Affairs Supervisor, PPD Johor Bahru, Mr. Husnizar Ahmad, PPD Pasir Gudang representative, and Mr. Mohammed Hazaluddin Bin Hashim, Head of Health, Safety, Security and Environment Division, Port of Tanjung Pelepas Sdn. Bhd

In his closing speech, Mr. Ahmad Salhin bin Mustapa stressed that the knowledge acquired in the programme should not be put to waste and be made into a spirit in facing and answering the questions in the forthcoming SPM examination.



Johor Port Authority Organise **LPJ Port Week** **2018**



JOHOR BAHRU, 29 OCTOBER 2018 – Johor Port Authority (JPA) today held its Johor Port Authority (JPA) Port Week or better known as LPJ Port Week 2018 which was officiated by The Honourable Dato' Jana Santhiran a/l Muniayan, Deputy Secretary General (Management), Ministry of Transport Malaysia at DoubleTree by Hilton Hotel, Johor Bahru. This is JPA's fifth annual event and this year's event theme is Ports And Logistics 2025.

In his speech, The Honorable Dato 'Jana Santhiran has stressed that the importance of ports for technology literacy in order to promote operational efficiencies, transparency and connectivity in improving service quality to port users. Failure to implement technology and broadband (internet) networks in the port makes the port less competitive as it is unable to meet customers' expectations and demands. The government will continue to support all ports in Malaysia as it is important in the logistics industry as well as having a strategic

role in supporting the country's economy through trade. Additionally, the opening ceremony was also commemorated with the handover of a Memorandum of Understanding (MOU) between JPA and Iskandar Halal Park (IHP) Sdn.Bhd and JPA with Anak Alami Enterprise.

This year's JPA Port Week was held for six (6) days from 27 October to 1 November 2018 with Ports of Treasure Hunt and Customer Day (HBP) was organised at Plaza Angsana, Johor Bahru as the event's curtain raiser. This annual Port Week was organised by JPA in collaboration with Johor Port Berhad (JPB) and Port of Tanjung Pelepas (PTP).

The objective of this Port Week is to introduce and promote ports in Johor known as Malaysia's Southern Gateways to the community and to highlight the facilities and services offered to port users. Agencies under the Ministry of Transport (MOT) such as the Road Transport

Department (JPJ), Department of Civil Aviation (DCA) and Port Authorities has jointly participated in the exhibition in introducing their services to the public. There is also exhibition from schools showcasing students' innovation, exhibitions and the sale gallery of Small & Medium Industry (SMI) products. Apart from that, the exhibition was also participated by the Unit Swadaya Insan Negeri Johor which coordinated job fair and walk-in interviews by companies such as Aeon, KPJ, 7-Eleven, Al Ikhsan, Sogo and many others.

Apart from the aforementioned activities, a two days Port Week Conference 2018 from 29 and 30 October 2018 which is one of JPA's Port Centre of Excellence (PCOE) initiative with Ports and Logistics 2025 for this year's conference theme. A total of 18 local and foreign speakers were invited and have shared their experiences and shared latest information to this year's 250 participants.



The Johor Halal Logistics 1.0 forum was also held on 31 October 2018 during the JPA Port Week 2018 at the DoubleTree by Hilton Hotel, Johor Bahru. This the first forum held in Johor which provide understanding and awareness on halal logistics and its supply chain to the logistics and port industry. A total of 11 speakers was invited to share their experience and best practices to the 200 forum participants. A Career Talk Programme was held on 1 November 2018 and a public religious talk was held on the same night in Pusat Bandar Pasir Gudang Atrium which was presented by The Honourable Dato' Haji Mohd Tahrir bin Dato' Shamsudin, the Mufti of Johor as the closing event for JPA Port Week 2018.



INTERVIEW WITH MARCO NEELSEN

You are well known in the maritime industry, especially in Johor. Can you share with us about your background in brief?

M > I am a trained and certified navigational officer with a combined total of 20 years' experience in the Maritime Industry. On 7th November 2016, I joined PTP as Chief Executive Officer. Prior to joining PTP, I served Buss Port Logistics GmbH & Co. KG in Hamburg/Germany as its Chief Executive Officer, leading a Portfolio of 12 Multipurpose and Off-shore Terminals in Germany, Netherlands and Turkey. I also spent almost 10 years in Middle East in various Operations and Executive position within the A.P. Møller Terminals Group in places like Salalah/ Oman, Aqaba/Jordan and being the last one CEO of APM Terminals Bahrain. I worked as well a short while in Lagos/Nigeria at the APM Terminals facility.

What was your journey like to get where you are today?

M > I think at foremost, it is always related to hard work to move forward in your career. In addition, I really enjoy the Shipping and Ports environment and could not see myself working in a different environment. Therefore, till today, I really like what I do, and more importantly, I enjoy it. The joy and fun I have working in this industry is kind of my “fuel” driving me forward.

Lastly, as a person and a professional, I believe that constantly challenging yourself to be out of your comfort zone is a door to success. As such, I always strive to continuously improve myself and not to be complacent at my surrounding, regardless at work or on a personal level. Continuous improvement does not only allow you to make the areas of strengths stronger but also aids in changing the weaknesses into strengths, while it helps to unlock one's potential, so that it may be used to its fullest making one a successful person in every aspect of life.

What are the accomplishments in maritime industry that you most proud of?

M > To be honest, I do not have any specific ‘proudest moment’ that I can recall. Though, it is not to say that I did not have any certain achievements to be celebrated or proud of. It is rather the entire composition of experience or journey that I go through up until today. The word proud is also not something I favour because to me, in life, it is not about being proud of your achievement but rather about the feeling of satisfaction that you get from doing things that you are passionate about.

To me, life satisfaction is when I go back home after a long and exhausting working day and I feel something positive has been achieved that day. It doesn't need to be something big nor has substantial monetary value in it. I get the satisfaction when I know our shareholders are satisfied with their return on investment, our customers are happy with our services and our staffs are working in a safe environment and are fully motivated to work and give their best to PTP.

What do you think about the current economy in Malaysia and its relation to the total of throughput handling in PTP?

M > I think Malaysia's economy will continue to be strong and resilient with forecast of GDP growth around 5% this year.

In relation to our throughput handling, this has translated well with our import-export containers handling which so far increased by 7% in the 1st six month this year against the same period last year.

In your opinion, what are the greatest challenges that PTP is currently facing and what kind of opportunities do you foresee for the PTP moving forward?

M > For me, the greatest challenges for PTP are to safeguard our position as the main transshipment hub in the region. The industry has witnessed major transformation in the form of shipping alliance reshuffling exercise which happened in 1st half 2017 resulting other terminals transshipment hub losing their market share. At the same time, we also acknowledge that the port selection process is constantly shifting through mergers, acquisitions and strategic alliances.





The infrastructure challenges are merely on the trend of larger ships, ageing infrastructure and resilience ability are critical elements as part of the strategy to stay in the game. PTP also faces other challenges in the trade lanes trends and patterns such as shifting of production centric, changing of wealth pattern, global political influences which directly or indirectly affects the transshipment pattern. Other sustainability challenges are financing, labour relations, tariff increase, land value and various changes in government regulations.

Located merely a few hours sailing time to world leading transshipment hub has always remind us to continue keeping our feet on the ground on the never ending competition and enormous capital investment advantage.

PTP however managed to secure our market position through current customers and shipping alliances that are also the biggest shipping lines and alliance in the container shipping industry. Our strategy on continuous improvement and increase customer experience by the means of delivering world class service and over time exceeding the performance expectation supported by various proactive measures emphasizing in constant strengthening customer and stakeholder's relationship and continuous investment in equipment and facilities reliability and availability has created an opportunity for us to handle more container volumes.

What do you think of 'Smart Port'? Should it be implemented at PTP?

M > I am fully supportive towards the idea of Smart Port. Our strong collaboration with Lembaga Pelabuhan Johor has brought us closer with our shared aspiration towards making PTP a smart port with the implementation of the Vessel Traffic Movement Information System (VTMIS). With VTMIS, the system provides improvement in terms of efficiency of vessel traffic movement and improves safety of navigation within port approaches or through hazardous areas, as well as also provides the essential centralized Data Capture function that will enable the PTP to continuously improve safety, security and environmental protection within the port area.

Presently, PTP, LPJ and various other government authorities as well as related stakeholders in Johor Port Community are working closely to develop and implement a fully integrated, end-to-end, customs modernization solution that delivers 'Single Window' for goods clearance called 'uCustoms'. Apart from that, we are also looking forward with the implementation of 'eGateway' system, a system created to centralize all the system used by the user related to port activities in Johor. When these systems are put in place, the systems will provide invaluable benefits such as consistent operating procedure, cost savings on transactions, automation of manual processes and many more.





What are your main priorities for next year? What are your hopes and expectations for the PTP in the future?

M > The journey has been challenging but I think we are progressing well in the industry. Personally, I think that PTP today is more stabilize, in a sense we are not routinely facing the issues and problems that we had had before. Significant achievements have been made as a result of our constant effort in strengthening of our customer and stakeholders' relations, improvement on productivity, and continuous investment in our equipment and facilities.

As such, my mission for next year is to maintain this stabilization so we can be sustainable in terms of our operations and business as a whole. PTP will use its stable platform and move towards sustainability by having further volume growth and by investing on the people as well as to put in place the right management system and motivational tools to ensure PTP staff can perform to their best of capability.

Apart from that, we will also be focusing on how to expand our local cargo market and to improve on delivering efficient and reliable customer experience. Last but not least, we will also be looking at replacing our current NAVIS terminal operation system to the State of the Art new Navis N4 enable PTP to enhance its terminal operational efficiency while supporting future volume demand and maintaining customer-focused services.

I also believe that we need to continue with our journey of having a solid Safety Culture in PTP. A safety culture is not merely a collection of policies and programs. Safety is more than a set of activities focused on accident prevention. It is a way of thinking about how we work, and it should be at the heart of any employee of an organization.

I do understand that culture change in an organization, especially in a big organization like PTP is not a simple process and more often than not will take time to be fully developed. When it comes to workplace culture, many elements contribute to creating and sustaining a solid culture of safety. However, in an organization with a positive health and safety mind set, the managers, supervisors, and workers must share common values that make worker health and safety a priority. They anticipate unsafe acts and conditions and correct them before harm is done. They engage in injury and disease prevention. Most of all, they take ownership of health and safety issues.

What can employees do to help drive long-term growth besides just doing a good job day to day?

M > Be open and speak up if you have opinions, concerns or feedback that you believe can make the Company better. Engage with your colleague, supervisor or managers as well as to me directly if necessary. Make your voice heard and be receptive as well as proactive to the change of safety culture that we are currently heading to and most importantly, do it because it is the right thing to do not because you have to.



GREENING THE OFFICE

(JPA GREEN PORT POLICY)

By: Mohd Zahari Bin Mohd Rusjuna

Johor Port Authority (JPA) Green Procurement Policy

The development of JPA Green Procurement Policy is in line with the Government Green Procurement (GGP) Policy.

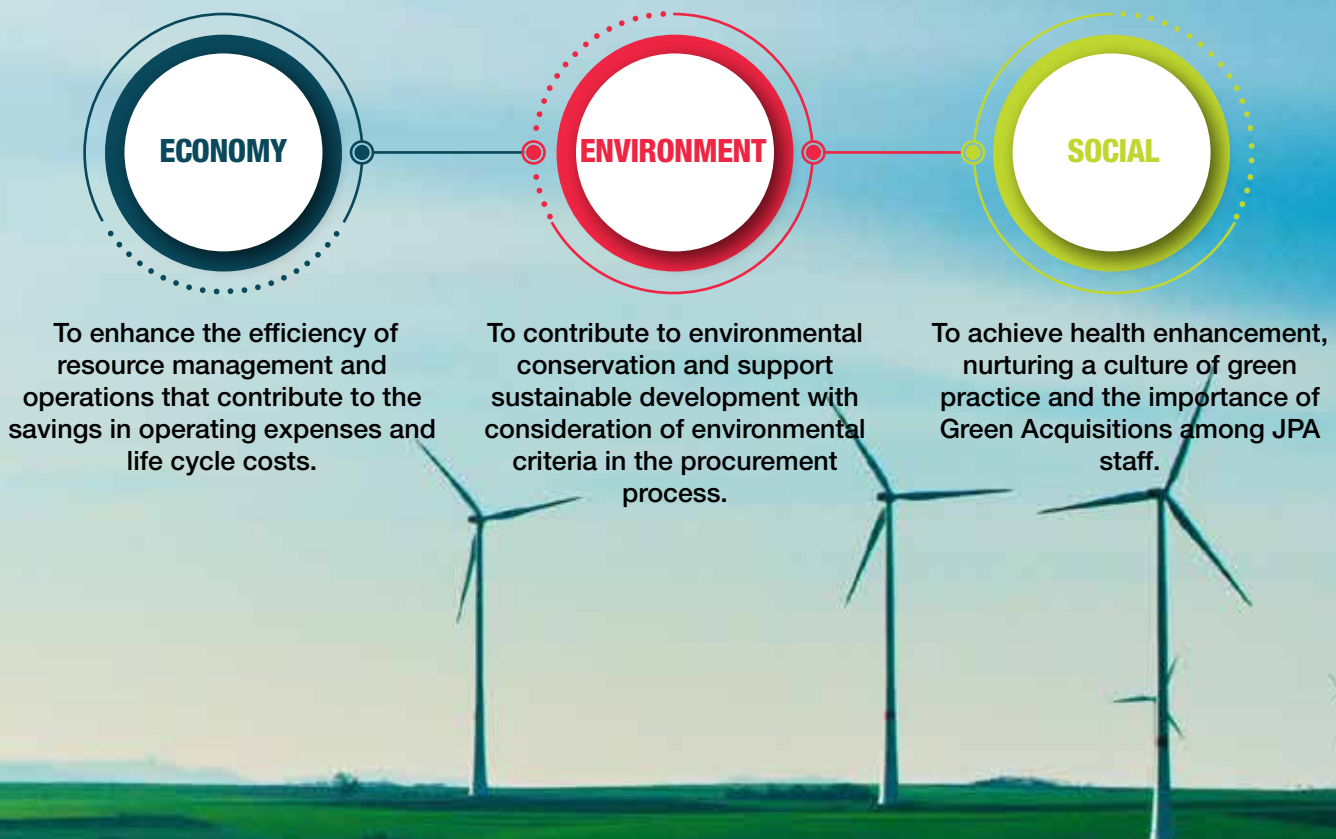


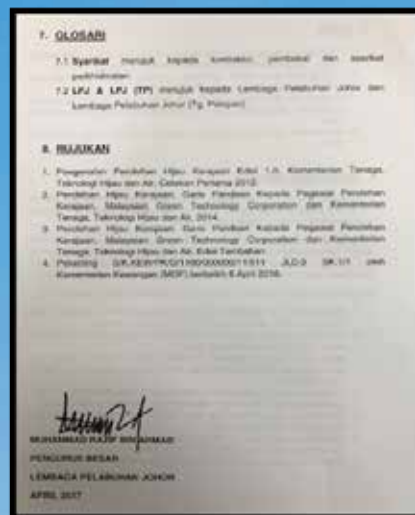
GGP refers to the acquisition of products, services and work in the public sector that takes into account environmental criteria to conserve natural environment and resources, and minimises and reduces negative impacts of human activities. GGP is smart procurement – it means improving the efficiency of government procurement and at the same time using public market power to transform the Malaysian economy into a Green Economy. Government procurement plays a crucial role as a catalyst for socioeconomic development as it represents about 12-15% of Gross Domestic Product (GDP). The Government has realized the importance of Government procurement especially in creating innovation opportunities and enhancing competitiveness of local companies. In addition, Government procurement has been identified as one of the potential fields to

encourage investments and instil business confidence in Malaysia.

Government has acknowledged the importance of GGP and initial steps have been taken towards its implementation. These commitments have been outlined in the 10th Malaysia Plan (10MP), the New Economic Model (NEM), the Economic Transformation Programme (ETP), the NGTP, the National Renewable Energy Policy and Action Plan (NREPAP), the Small and Medium Enterprises Master Plan (SMEMP) and the Federal Annual Government Budget in 2010. Under the ETP, the Government has made GGP as one of its Entry Point Projects (EPP). There are several Treasury instructions (AP - Arahan Perbendaharaan) and Treasury Circular Letters (Surat Pekeliling Perbendaharaan; SPP) that support GGP principles. For example,

prudent practices in government procurement are emphasised in various treasury circulars and directives, such as Treasury Instructions Letter (Surat Arahan Perbendaharaan; SAP), dated 17th September 2009; SAP dated 15 July 2009; Treasury Circular (Pekeliling Perbendaharaan; PP) No 2, 2009; Treasury Circular Letter (Surat Pekeliling Perbendaharaan; SPP) No 1, 2008; PP No 7, 2008; PP No 9, 2008 and SAP dated 24th April 2008. These circulars and directives have emphasised that the objective of government procurement is not simply to select the offer with the lowest price, but to obtain the best value for money. Another circular was issued this year urging all government agencies to take proactive action to reduce 5% energy and water savings in all government buildings (MOF's circular PP2/2014).





one of the key issues the global community is trying to solve by way of efficient energy use. In line with the global energy efficiency movement and Malaysia's commitment towards climate change reduction with pledged to cut carbon emissions intensity by 45% by 2030, Johor Port Authority (JPA) has embarked on our institutional proactive steps by implementing the Energy Audit Program. JPA has appointed FKIR Consultancy Sdn. Bhd (FCSB) to conduct Energy Audit (EA) by utilizing the Sustainable Energy Development Authority (SEDA)

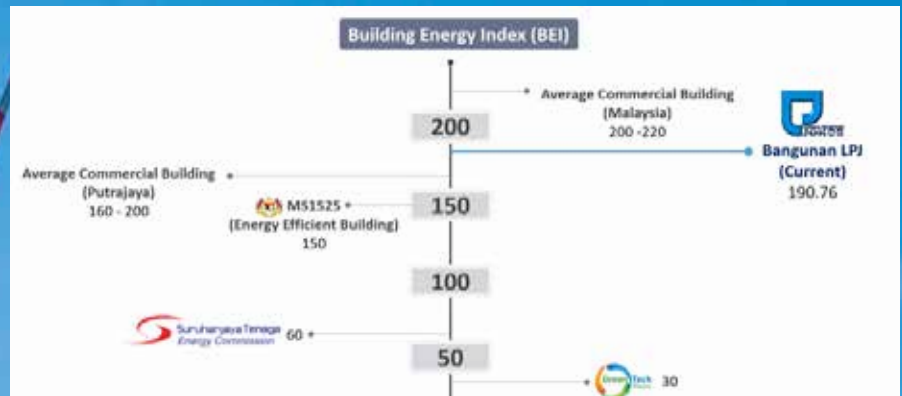
Energy Audit Program (Under Sustainable Energy Development Authority (SEDA) Malaysia Energy Audit Grant)

Johor Port Authority (JPA) building located at Pasir Gudang holds the enviable record of being the first building among the agencies under Ministry of Transport to have been awarded the Sijil Penarafan Hijau (pH) from Public

Works Department (JKR). This 10 storey building was built with good environment concepts influenced by elements of Green Building designs. Commencing operation since January 2015, the building continues to be a landmark and icon of sustainability in Pasir Gudang.

With the increasing energy demand in all sectors coupled with the implementing surge in energy generating costs; energy remains



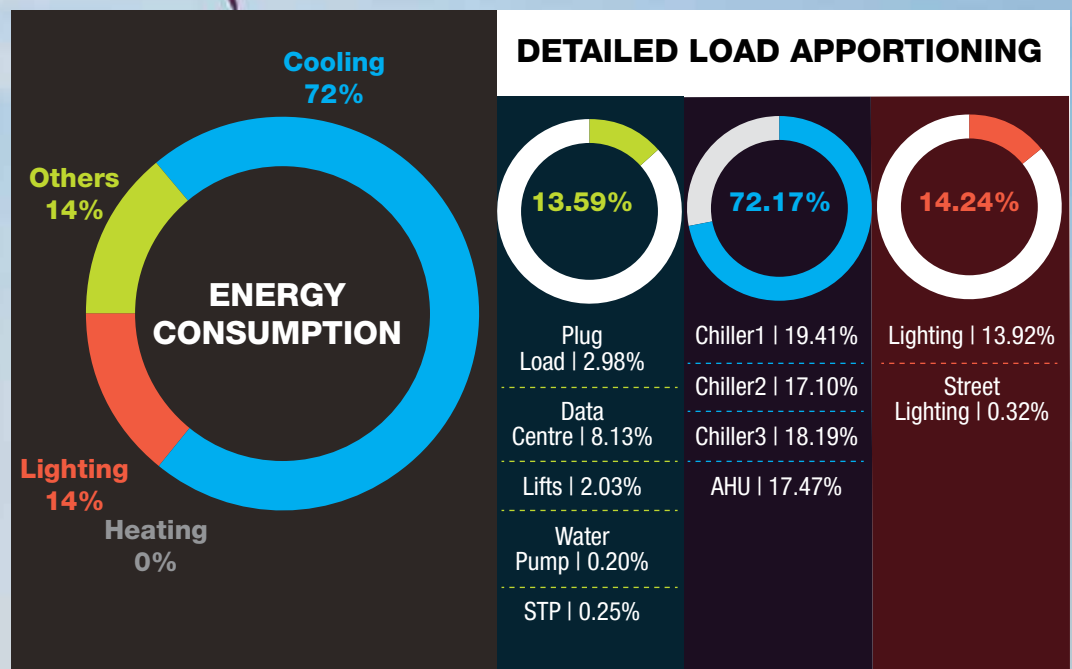


Malaysia Energy Audit Grant. This EA exercise was successfully implemented within the stipulated planning period starting from 7-21 May 2017. The final report has been submitted on 8 August 2017. JPA and FCSB is committed in this EA and has employed best engineering judgement and best practice methods in estimating energy savings and implementation cost. Based on the EA conducted,

FCSB is proposing Energy Savings Measures (ESM) that will contributed with cost and zero cost measures. Based on the ESM, if all proposed measures are to be implemented, the final total energy consumption can be reduced by 37.49% with the final Building Energy Index (BEI) of 118.38 kWh/m²/yr. At this BEI, LPJ building is more efficient than the average commercial building in Malaysia.

JPA BUILDING ENERGY CONSUMPTION

The energy consumption is mostly Electricity where other energy types were insignificant. Electrical energy being used primarily for cooling, lighting and others. There were no energy identified being used for heating.





Energy Efficiency Initiatives

Energy is more than numbers on a utility bill; it is the foundation of everything we do. All of us use energy every day—for transportation, cooking, heating and cooling rooms, manufacturing, lighting, and entertainment. We

rely on energy to make our lives comfortable, productive, and enjoyable. To maintain our quality of life, we must use our energy resources wisely. The choices we make about how we use energy—turning machines off when we're not using them or choosing to buy energy efficient appliances—impact

our environment and our lives. There are many things we can do to use less energy and use it more wisely. These things involve energy conservation and energy efficiency. Many people think these terms mean the same thing, but they are different.



Energy conservation
is any behaviour that results in the use of less energy.



Energy efficiency
is the use of technology that requires less energy to perform the same function.



Renewable energy
is energy from a source that is not depleted when used, such as wind or solar power.

Johor Port Authority (JPA) have taken proactive steps in implementing energy efficiency initiatives. This is in line with the JPA Green Port Policy under “Promote Sustainability” element, the overall objective 2, item no 2, to implement energy, electricity and fuel saving initiatives. This shows JPA commitment to the Malaysian Government in improving the energy efficiency utilization in our building. Thru our “Pelan Tindakan Pengurusan Tenaga Bangunan LPJ”, we have plan a various energy efficiency initiatives towards to reduce energy consumption in our building. The objectives is:

- a) to reduce Greenhouse gases (GHG) effect;
- b) to encourage green practices among JPA staff;
- c) to support JPA green port policy;
- d) to become a role models in the field of an efficient energy management;
- e) to save on operating costs and energy consumption; and
- f) to support JPA green procurement policy.

Energy Efficiency (EE) Initiatives:



LED Project

Replacement existing bulb / lamp to LED
5 July - 20 September 2017



Reduce Daily Aircond

Early shutdown time by 0.5 hours
1 January 2018



Increase Temperature At 24 oC

1% of energy save for every increase of 10C of temperature
1 January 2018



De-Lamping Program

De-lamping at all over lit areas/rooms/workstations
15 March 2018



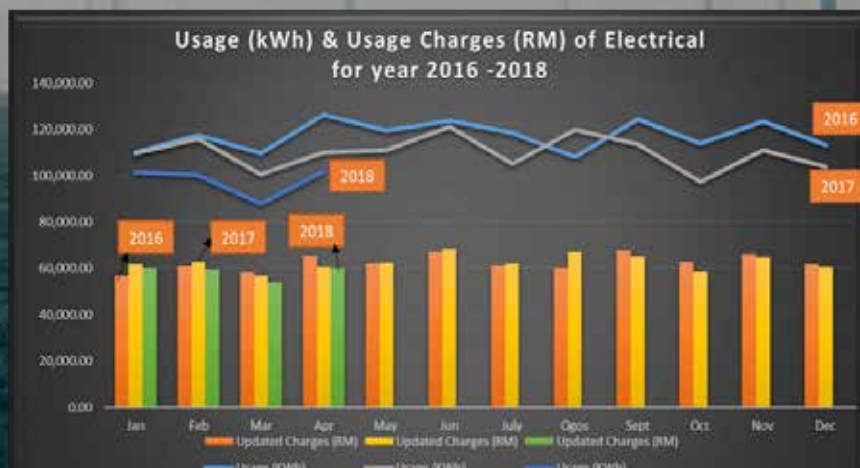
Solar Photovoltaic (Solar PV) Project

Use Renewable Energy (RE)
Starting June 2018 (24 weeks)

Our Key Performance Indicator (KPI);



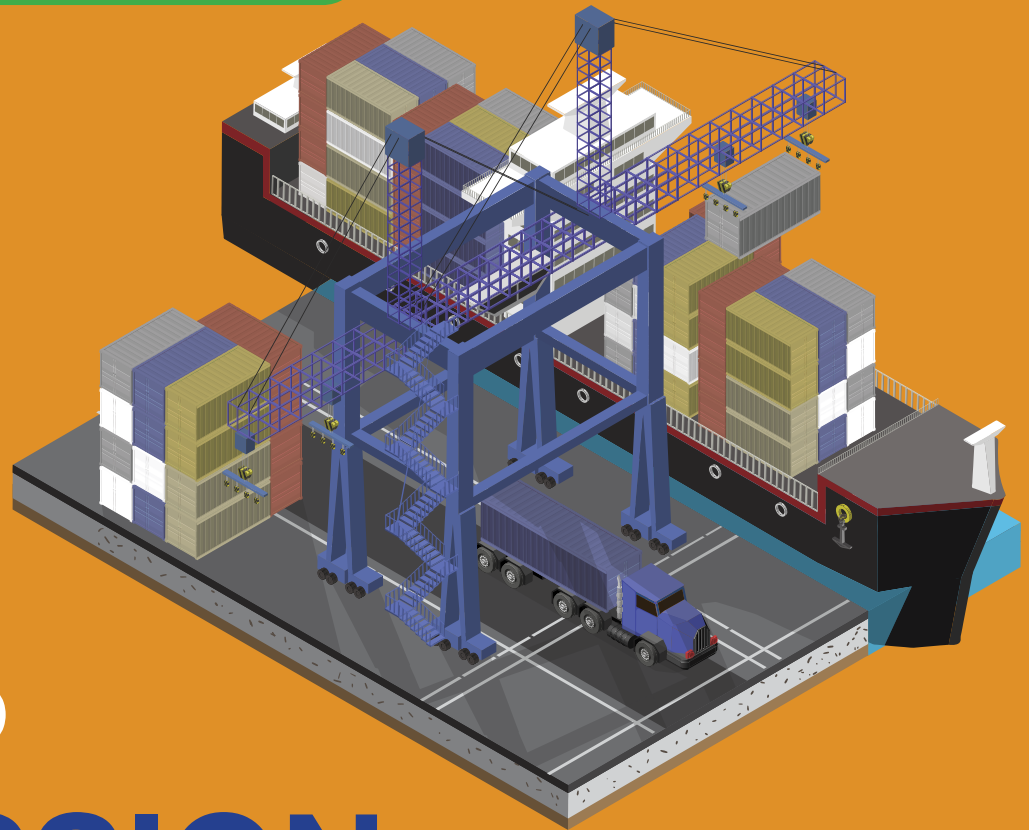
JPA Electricity Bill Usage Statistics;



JPA Best Achievement in Year 2017



Johor Port Authority (JPA) has been awarded for Green Port Award System (GPAS) for year 2017. The GPAS Evaluation Committee has reviewed and evaluated all the applications for 2017 GPAS and scored each applicant according to the indicators in the Implementation Plan for GPAS and the specific criteria set out in the Guide to GPAS Expert Evaluation. JPA is actively for implementing green initiatives for ports as well as for our main building. This is in line with our JPA Green Port Policy. GPAS officially launched in 2016 by APEC Port Services Network (APSN). GPAS program is a green evaluation system for ports in the APEC region, it represents an integral part of APEC TPT-WG's ongoing efforts to promote the green growth of the port industry. GPAS is expected to better improve the environmental awareness, promote the sustainable development green strategy, advance the green interoperability and share the best practices for ports in Asia-Pacific region. Joining the GPAS program will significantly lift the profiles of ports and induce huge impacts on society.



SHIP EMISSION MANAGEMENT SYSTEM (SEMS)

By : Mohd Zahari Bin Mohd Rusjuna

1.0 Project Overview & Background

Ships are generally powered by large diesel engines operating on low quality fuel oil of relatively high sulfur content (average around 2.7% sulfur by mass). Ships use diesel powered electrical generators on board for lighting, air conditioning, control systems, fuel and water systems, bow thrusters and cargo handling. Ships also use oil fired boilers to produce steam for fuel heating, cargo heating and to drive turbines for cargo and ballast pumping. Ship emissions from these combustion process have remarkable global, regional, and local adverse impacts on the air quality on sea and land. The most important pollutants emitted from ships are nitrogen oxide (NOX), sulfur dioxide (SO₂), hydrocarbons (HC), and particulate matter (PM). In the port area, ship's emissions are produced during anchorage, maneuvering, at wharf, berthing and un-berthing. The health effects of air pollution at ports may include asthma, other respiratory diseases, cardiovascular disease, lung cancer, and premature death.



Carbon dioxide produced by fossil burning engines is a greenhouse gas (GHG) which not only contribute to global warming, but also acid rain and ocean acidification. Various international initiatives and regulations were made to reduce carbon dioxide emission. In 1997, an International Conference of Parties to the MARPOL Convention agreed to amend the Marine Pollution Convention (MARPOL Annex VI) and adopted a resolution to reduce CO₂ emissions from ships. The resolution also invited International Maritime Organization (IMO), in cooperation with the United Nations Framework Convention on Climate Change (UNFCCC), to undertake a study of CO₂ emissions from ships for the purpose of establishing the amount and relative percentage of CO₂ emissions from ships as part of the global inventory of CO₂ emissions.

Johor Port Authority (JPA), being the authority in charge of regulating ports in Johor has collaborated with Universiti Teknologi Malaysia (UTM) to develop

an online system named Ship Emission Management System (SEMS) for accounting the shipping emissions and analyse the emissions improvement measures in ports (<https://sems.lpj.gov.my/>). Under the mandatory requirement of JPA, Johor Port (JP), Port of Tanjung Pelepas (PTP), and all jetties that has been licensed by JPA (operation limit within Pasir Gudang and Tanjung Pelepas Port Water Limit) are required to report the ship activities using the SEMS.

2.0 EMS Development

2.1 Project Planning, Activities and Progress

SEMS comes along with two version: a web-based SEMS and an IOS SEMS apps. The Development of SEMS commenced on 1st April 2016 and completed by 30th Jan 2017. Table 1.1 show a Gantt chart of the project planning, activities and milestones. The total project duration is nine months.

Table 1.1: Project Activities and Milestones

Milestones	Project Activity	Mth 1 (Apr)	Mth 2 (May)	Mth 3 (June)	Mth 4 (July)	Mth 5 (Aug)	Mth 6 (Sept)	Mth 7 (Oct)	Mth 8 (Nov)	Mth 9 (Dec)	Mth10 (Jan)
M1	User requirement study	Plan	Actual								
M2	Backend module, user module, Vessel module, port module		Plan	Actual							
M3	Emissions Calculator Module, formula module			Plan	Actual						
M4	Reporting module, Maintenance module				Plan	Actual					
M5	Dashboard module and user manual					Plan	Actual				
M6	iOS development						Plan	Actual			
M7	Integration of iOS and web app							Plan	Actual		
M8	User feedback								Plan	Actual	



Plan



Actual



2.2 A web-based SEMS

Early of January 2017, the first version of the web-based SEMS had been completed. A one-month trial period for port users to access and use was then conducted. Based on the feedback, the system was improved. The web-based SEMS features and functions were further discussed on 22nd August 2017. After obtained feedback from the JPA and users, a new programmer was engaged to conduct the improvement on the web-based SEMS system. On 21st September 2017, the User-Acceptance-Testing-Session of the new version of web-based SEMS was signed and concluded.



2.3 IOS SEMS apps

The first version of the IOS SEMS apps was also completed in the early of January 2017. By 14 November 2017, the complete information (IOS developer's account details) had been provided by JPA IT department. As the web-based SEMS has been improved and changed a lot (especially to incorporate multiple fuel calculation), changes in the IOS apps is needed. The new IOS SEMS apps is going to be delivered by new programmer. This is to ensure that the features and the functions in the IOS apps is in synchronization with the web-based SEMS system.

3.0 SEMS Implementation

Two user-trainings on the web-based SEMS were conducted on 31st May and 21st June 2017, to guide port users (shipping agents) on the system function and usage. The SEMS has been implemented in Ports of Johor since 01 July 2017 thru JPA Port Notice that has been circulated to Port Operator, Ship Owner, Master of Ship, Forwarding Agent, Freight Forwarder, Association, Private Jetty and all port users. The SEMS includes the web-based interphase and mobile application to be used by JPA to monitor, calculate and estimate the emissions (CO₂, NO_x, SO_x, PM₁₀ and PM_{2.5}) contributed by each ships that operating in the port area. The SEMS also include function for improvement measures to reduce the emissions such as changing fuel type in port area, using shore power supply at berth, ship speed reduction, reduce ship's activities time and so on.

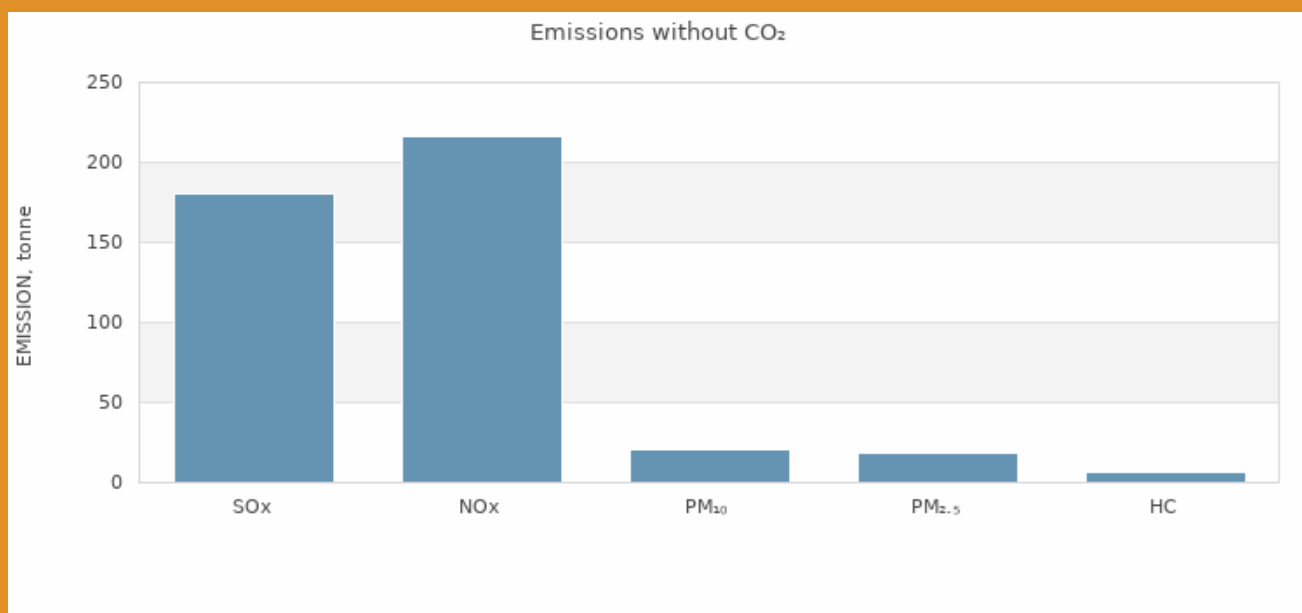
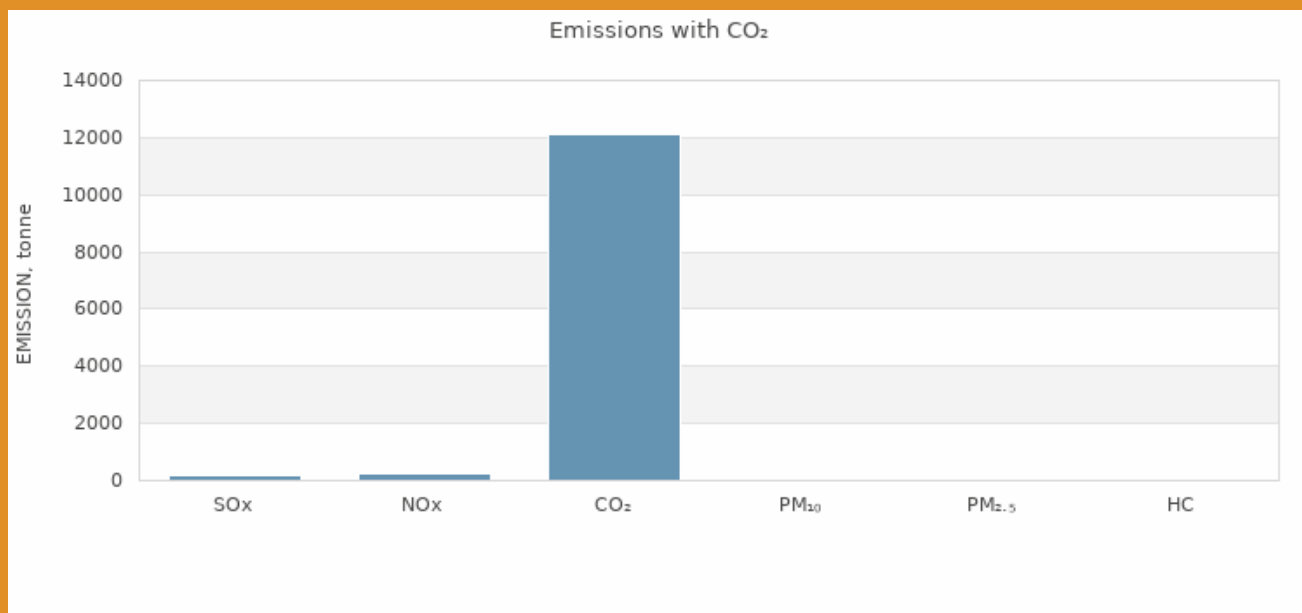


TOTAL EMISSION

1. DESCRIPTION

Auto generated report for total emission, during 01/01/2017 to 31/12/2017.

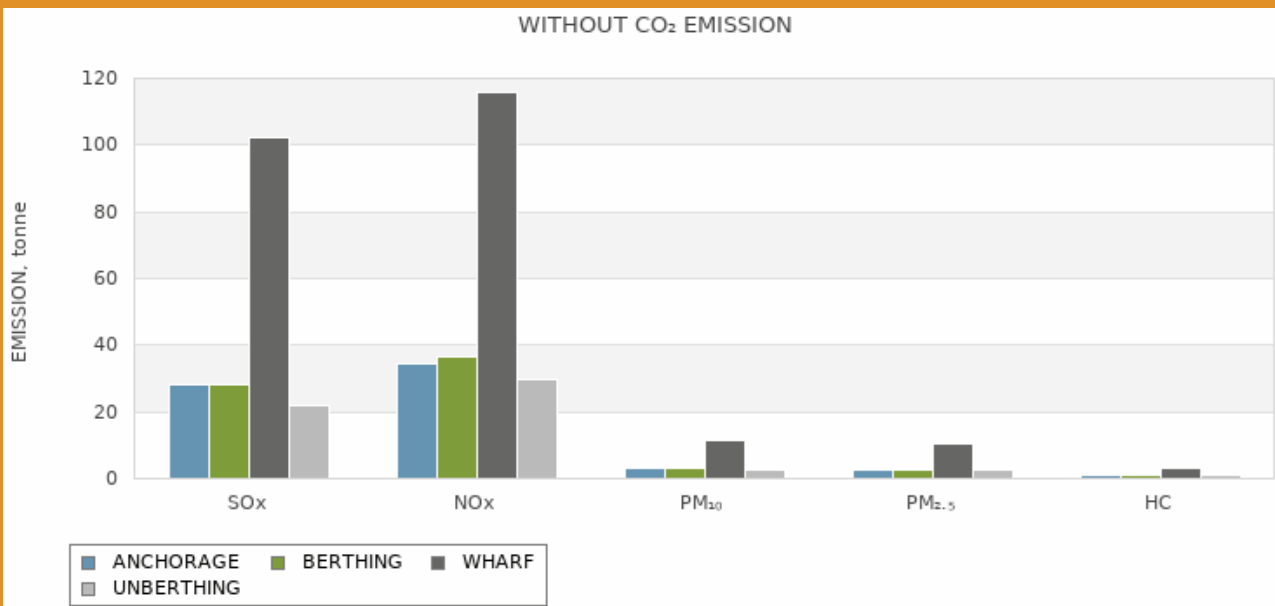
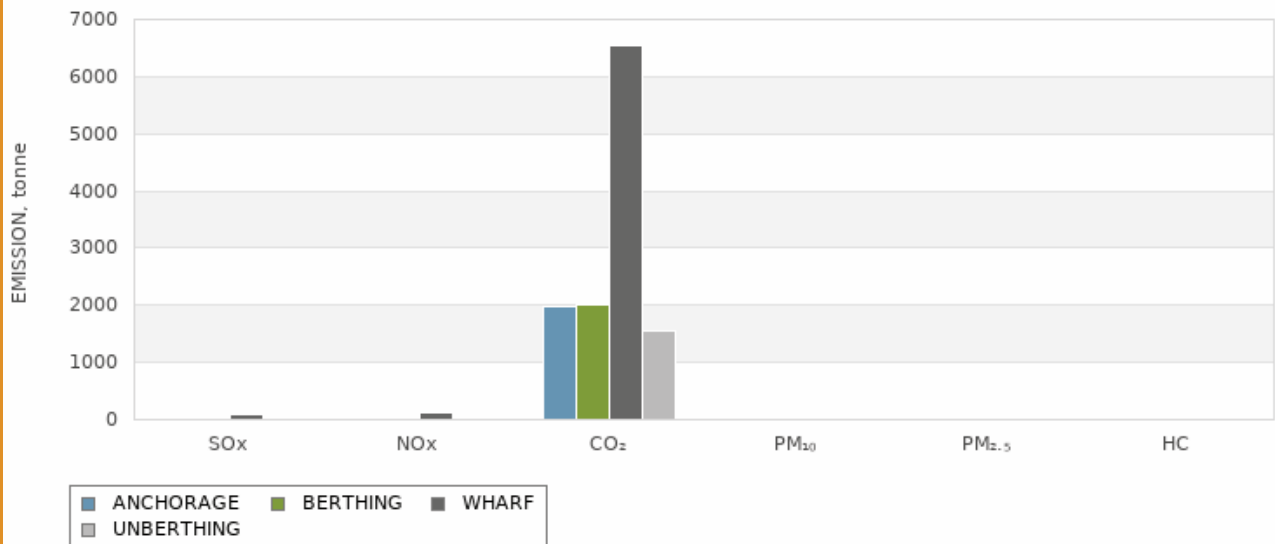
2. TOTAL EMISSION



NO. OF LOCATION	UNIQUE SHIP	NO. OF SHIP	NO. OF EMISSIONS ENTRIES	In Tonne					
				SO _x	NO _x	CO ₂	PM ₁₀	PM _{2.5}	HC
5	108	115	354	180.67	216.125	12123.267	20.159	18.637	6.566

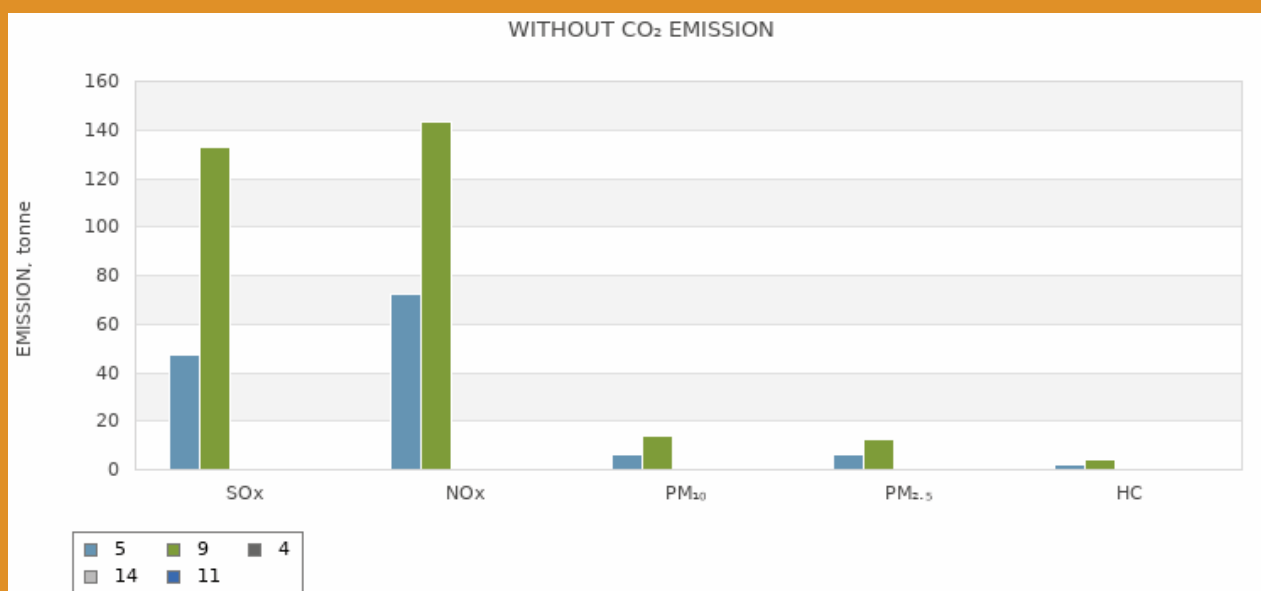
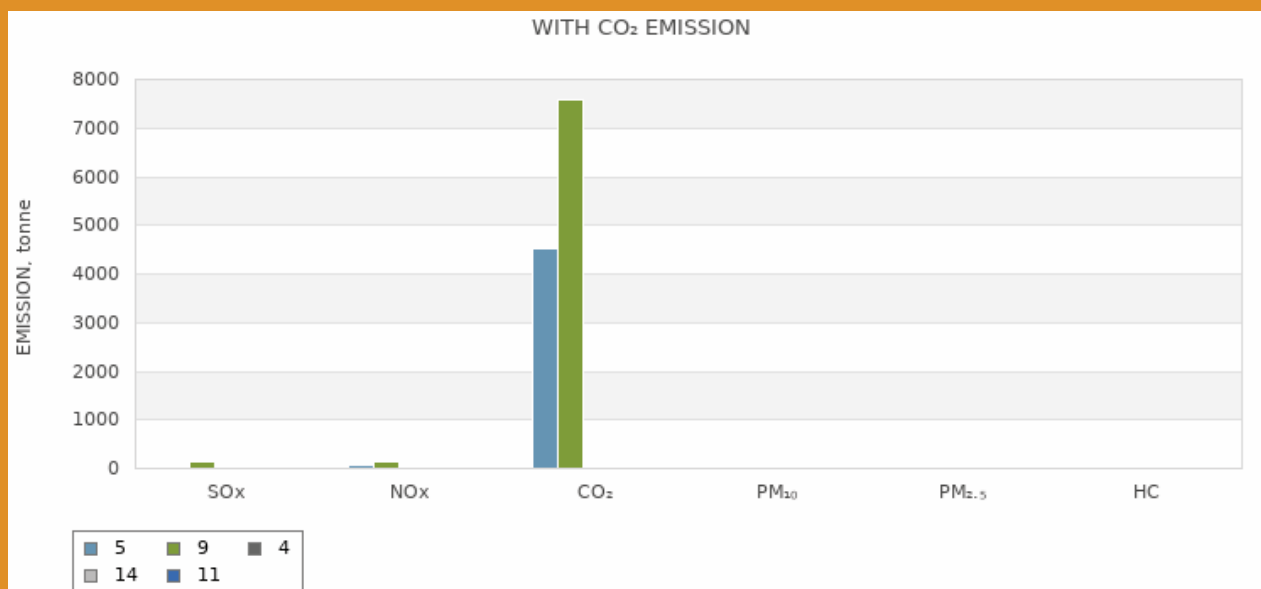


3. TOTAL EMISSION IN EACH MODE



Legend	MODE	In Tonne					
		SO _x	NO _x	CO ₂	PM ₁₀	PM _{2.5}	HC
	ANCHORAGE	28.175	34.426	1980.986	3.032	2.803	1.025
	BERTHING	28.139	36.506	2023.088	3.089	2.856	1.193
	WHARF	102.301	115.694	6558.561	11.424	10.554	3.377
	UNBERTHING	22.056	29.498	1560.632	2.613	2.424	0.972

4. TOTAL EMISSION IN EACH LOCATION



LOCATION ID	LOCATION	NO. OF SHIP	NO. OF EMISSIONS ENTRIES	In Tonne					
				SO _x	NO _x	CO ₂	PM ₁₀	PM _{2.5}	HC
5	JOHOR PORT	30	109	47.209	72.307	4512.999	20.159	18.637	6.566
9	PORT OF TANJUNG PELEPAS	80	240	133.133	143.098	7579.256	13.618	12.586	4.335
4	TANJUNG LANGSAT PORT (TLP) TERMINAL SDN BHD	1	1	0.009	0.059	2.92	0.002	0.002	0.002
14	ATT TANJUNG BIN SDN BHD	2	2	0.106	0.268	10.978	0.023	0.021	0.008
11	TANJUNG PELEPAS ANCHORAGE AREA	2	2	0.214	0.392	17.112	0.035	0.032	0.012



SAVE THE DATE


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EVENTS AND HAPPENINGS WORTH CHECKING OUT

**PORT
WEEK**
PORT WEEK EXHIBITION
12 - 13 OCTOBER

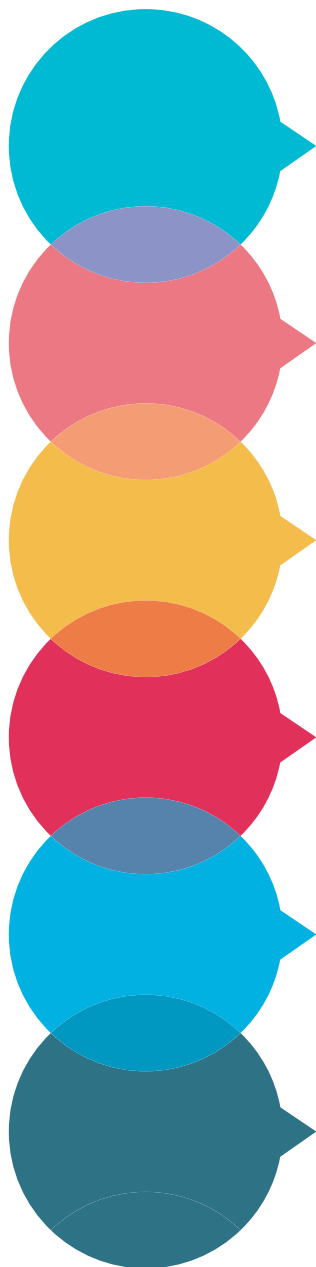
**12
OCTOBER**
PORTS OF JOHOR
TREASURE HUNT 2019

**14 - 15
OCTOBER**
PCOE Conference

**16
OCTOBER**
PORT USER'S
ENGAGEMENT DAY

**17
OCTOBER**
Career Talk

**17
OCTOBER**
FORUM





COMPANY VISIT TO JOHOR PORT AUTHORITY

No.	Month	Date	Company
1	JAN	Fri 19-20/1/2018	Project Steering Committee Meeting (UKAS / MOT) visit to Tanjung Pelepas Port
2	MAR	Tue 6/3/2018	Academic Visit of Universiti Malaysia Terengganu
3	APR	Thu 26/4/2018	Academic Visit of Universiti Malaysia Terengganu
4	MAY	Tue 15/5/2018	Academic Visit from Universiti Teknologi MARA (UITM) Student Shah Alam
5	JUNE	Mon 25/6/2018	Visit from the Thai Canal Association for Study and Development (Thai Canal Association for Study and Development)
6	JULY	Tue 3/7/2018	Technical Site Visit to Ports : 16th Asean Ports & Shipping Conference & Exhibition
7		Wed 11/7/2018	Visit from The International Association of Ports & Harbors (IAPH), Japan to Tanjung Pelepas Port (PTP)
8		Wed 18/7/2018	Academic Visit from The Japanese School (Johor)
9		Mon 30/7/2018	Visit from YB Minister of Transport at Tanjung Pelepas Port (PTP)
10	AUG	Wed 15/8/2018	Academic Visit from Politeknik Ibrahim Sultan Student Industry
11		Thu 30/8/2018	Academic Visit from Universiti Teknologi Malaysia
12	SEPT	Sun 23/9/2018	Visit from Selangor Workers Welfare Association (PKNS) To LPJ & JPB
13		Mon 24/9/2018	Visit from The Inland Revenue Board, Johor
14	OCT	Thu 4/10/2018	Visit from Bintulu Port Authority & Bintulu Port Sdn. Bhd
15	NOV	Thu 15/11/2018	Academic Visit from Seri Alam National High School
16	DEC	Mon 10/12/2018	Visit from Sarawak Chief Minister's Department to Johor Port Berhad (JPB)
17		Thu 13/12/2018	Academic Visit from Geography Class, Help Crescendo International School, Johor Bahru to Johor Port Pasir Gudang



TLP: THE RECOMMENDED PORT / TO BE A LEADING PORT IN SOUTH EAST ASIA

TANJUNG LANGSAT PORT IS COMMITTED TO PROVIDE PORT SERVICES
THROUGH A SAFE, SECURE AND CUSTOMER ORIENTED-ENVIRONMENT

Tanjung Langsat Port (TLP) which is wholly owned by Johor Corporation (JCorp) is strategically located at the heart of South East Asia, 12 nautical miles from the busiest international shipping lane. Johor Corporation was established as a public enterprise and a statutory body via Johor Enactment No.4 1968 as one of a state-owned Conglomerate involving in core businesses including TLP. The berthing facility in TLP is capable of handling vessels sizes of VLCC Very Large Crude Carrier (300,000 tonnes DWT), Suezmax and Aframax sizes to become the preferred harboring destination among traders and investors. TLP is equipped with 9 berths; 7 berths for liquid cargo capable to handle vessels ranging from 5,000 up to 120,000 DWT vessels and 2 berths

for dry goods/bulk cargo for vessels of 40,000 DWT. In the pipeline is the construction of two new dry berths which will increase the port's overall capacity to 30 million metric tonnes.

The management and operations of TLP are led by Johor Corporation fully owned subsidiary company, TLP Terminal Sdn Bhd (TLPT). TLPT is the port operator serving the 5,000 acres' industrial complex that been designed to cater the light, medium and heavy industries. The development of the complex began in the year 1993 and had been well received by multinational investors. The 1,644 acres port area is endowed with 4.5 kilometers shore line and is one of the fastest growing terminals in the region being developed as a regional Oil & Gas Hub. TLP remains focused as the oil & gas enabler

which contributes to the growing Johor's economy through the Oil & Gas sector. The port continues to further develop its infrastructures and facilities to meet the needs of Oil & Gas players. TLPT's most significant achievement for in 2017 is the renewal of Terminal Operator License by Johor Port Authority for another period of 29 years i.e. until 31 May 2046.

Over the 46 years since its incorporation, JCorp as a market-driven business entity is primarily focusing on the realization of its goal underlined in its Strategic Business Transformation Plan and Business Continuity Mission while equally balancing its obligations and commitments. JCorp has translated its capacity to retain formidable financial and corporate

performances amidst global economic uncertainties.

The port is also supported by cluster development as follows:

a) Oil Storage Tank

Oil Storage Tanks with capacity of 922,800 cubic meters is located within 161 hectares area comprises oil terminal for petroleum and petrochemical products as well as tankage facilities for edible oil. Several notable companies are currently in operation such as Langsat Terminal (One) Sdn Bhd; Langsat Terminal (Two) Sdn Bhd that also operate Deep water Terminal in Pengerang through Dialog Berhad; Puma Energy (Malaysia) Sdn. Bhd; Musim Mastika Oil & Fats (M) Sdn Bhd; and also Langsat Bulkers Sdn Bhd.

b) Oilfield Services & Equipment Hub (OFSE)

An area of 202 hectares has been allocated for OFSE companies.

Among the reputable companies in operation thus far include French-based Asiaflex Products Sdn Bhd (company in Technip Group), LOSC Langsat Oilfield Supply Center Sdn. Bhd.

c) Regional Marine Supply Base

Regional Marine Supply Base was developed by Langsat OSC Sdn Bhd and Langsat Marine Terminal Sdn Bhd each with an area measuring 50 hectares. As of to date, both areas have attracted RM300 million worth of investments.

i. Langsat OSC Sdn Bhd (LOSC)

Construction of the Common User Supply Base (CUSB) by LOSC was completed and currently in operation under Public Bonded Warehousing License and Licensed Manufacturing Warehouse status in accordance to Sections 65 and 65A of the Customs Act 1967. The CUSB is equipped with 16 units of warehousing

facilities to meet the needs of downstream activities of O&G companies. With the expertise from joint venture partner, Oilfields Supply Center Limited, whom successfully manages the facility similar to the concept in Jebel Ali, Dubai, and several renowned O&G related service providers are currently leasing in this area.

ii Langsat Marine Terminal Sdn Bhd (LMT)

The warehousing and logistics facilities offered by LMT have attracted several well-known players such as NKGBS Malaysia Sdn Bhd from Japan, whom has taken up all the covered area for a 10-year lease beginning 2016. Other players have thus far set up operations within the facilities under Section 65 Customs Act 1967. They include Wellfab Engineering Sdn Bhd, Tiong Nam Sdn Bhd, and FGV Logistics Sdn Bhd.

ENABLER – FREE COMMERCIAL ZONE

Johor Corporation's move to set up a Free Commercial Zone (FCZ) within the port area is to capitalize on the Port's strategic location and provide investors' with the needs for such facilities. The Ministry of Finance on 3 June 2016 has granted Johor Corporation with approval to set up the facility within a 75-hectare site. The FCZ status has been gazetted on 10 April 2018. Upon its completion, the area is poised to be an integrated logistics hub in the region. As of to date, several local and foreign investors have committed to set up their facilities and have taken up 40 percent of the FCZ land.

ENABLER – PALM OIL INDUSTRIAL CLUSTER

Ministry of Plantation Industries and Commodities (MPIC) has granted Federal Grant amounting RM103 million for the development of POIC TLIC. The complex comprises of the infrastructure facilities, office and factory buildings, biomass facility and oil tank farm. As of now, 78 hectares (69 percent) of the overall POIC has been leased and operated by strategic investors.

ENABLER – JOHOR SKILLS DEVELOPMENT CENTRE SDN BHD

Johor Skills plays a significant role by providing skills enhancement and training to support the effort made by the government to upgrade the manpower skills which needed by the industries. The Centre assists the State Government in addressing the issue of mismatched skills required by industries by providing specialized skills training which in turn helps to boost the state's competitiveness as the preferred investment location especially by foreign investors. In 2017, a total of 3,906 participants have attended courses and programs organized by the center. Johor Skills also offers long term certificate programs which are required by industries particularly in the O&G industry, and furniture manufacturing industry.

