

# Insight!



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MPRL E&P Newsletter

31<sup>st</sup> March 2021

Happy  
Myanmar New Year  
**Thingyan**  
Greetings

Wishing all People of Myanmar  
Thingyan Holidays and Myanmar New Year filled  
with Joy, Health, Peace and Prosperity

## Executive Spotlight

U Myo Tin, Group General Manager



We have entered 2021 on the back of a global pandemic which continues to restrict our ability to go on with our usual business operations at full capacity. Just like our peers, we are now faced with disruptions and other economic consequences of the COVID-19 global pandemic. The scarring effects of this outbreak may be long but we must establish new strategies while we stay strong and resilient as we fight this crisis together. We must also see positivity in the new normalcy and take on any challenges as a team.

There were many setbacks however, I am proud to say that we stay resilient. A great example is the accomplishment of our Field Operations Team in Mann Field during COVID-19. Due to the safety health guidelines, we had to make changes to our

daily business operations. For instance, back in January, we were able to switch our operation crews as a result of "reduced" COVID-19 related travel restrictions. We were glad to be able to make this switch because our Field Operations Team had been stationed in Mann Field for about three consecutive months to reduce the risk of contracting the virus among our staff, which in turn could result in many complications in our daily operations. I would like to seize this opportunity to give a big applause to our 100-strong Field Operations Team for rising to the challenges of time, working in line with new safety measures, and staying strong together to overcome a difficult period.

On our CSR front, we were forced to scale back our community investment initiatives to a level where our CSR Team in Yangon Headquarters was not able to travel to Mann Field on a monthly basis like before. Our two field staff had to manage what they could alongside the community volunteers. Despite the difficulties, these two members and the volunteers had no mishaps and survived the new work lifestyle. This has definitely strengthened MPRL E&P's CSR initiatives in Mann Field, making it a beacon of success for Myanmar as it shows the hard work and unity between the communities and business operators. This incident has also brought admiration and support from the regional government authorities who have expressed a strong desire to set our Mann Field situation as an example for others to imitate when it comes to corporate social responsibility.

One of the biggest setbacks as a result of the pandemic is the Block A-6 Integrated Project. MPRL E&P has recently placed a focus on the upstream sector of the oil and gas industry in Myanmar because a strategic integrated petroleum project plays a vital role in a country's energy sector. Our Block A-6 Integrated Project is now entering the pre-FEED phase after more than a decade of exploration activities, to confirm a natural gas bonanza in the western offshore Ayeyarwady Region.

Adjustment of the fiscal terms of the Production Sharing Contract (PSC) was successfully implemented to match the extraordinary risks of opening up a deep-water block which resulted in a reduction in the Government's take of the production volumes, and we are currently striving to deliver the First Gas (FG) by the end of 2023. However, because of the pandemic, we have now encountered a delay in the mobilization of the planned work programs at Block A-6. Besides, an agreement to reschedule the FG timeline of the Block will now be reached in principle between the Block A-6 Joint Venture and the Government Authorities before long.

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# Your Opinion : New Year's Resolutions under the Shadow of COVID-19: How Would You Like to Move Forward with Your Life and Plans?

## Htet Linn

Junior Graphic Designer  
Executive Office Management



It is unquestionable to say that almost all of us are really glad and also, I feel okay to leave 2020 behind as this global pandemic hit us with a surprise. Nonetheless, we have already passed 2020, and now is the time to reflect on our lives and think about how to move out and adapt to the "new normalcy".

Generally speaking, it is hard to stick to any New Year's resolutions in a typical virus-free year, and this year wasn't any special. Because of the coronavirus outbreak, we had to adopt

social distancing and also, it had caused stress and anxiety among all of us as we don't know how the future holds for us. There are a few things that I learned during the pandemic. It made me realize the importance of having healthy relationships with family and friends, which plays an important role in maintaining good mental health.

My New Year's resolutions are going to be different; I would like to change my lifestyle and put more focus on my health. I also want to hang out and make new friends who are fun and interesting, while I strive to improve my social skills, get better at work, sports, and language skills while at the same time, pursue new hobbies. In this "new normal", the usual simple lifestyle that we are used to is gone and now, I have planned to take good care of my overall health this year. I am sad to see that a lot of businesses are now struggling from the severe effect of COVID-19. Unfortunately, people are dying every day because of this new virus but I always tell myself that it is not the end of the world, and we will survive if we stay vigilant and united while we fight and shoo away the virus together.

Remember that the sun rises and sets every day and the earth is still rotating and we are all going through this together. I hope that one day, we all can get back to having a normal lifestyle. ■

## Naw May Pale Htoo

CSR Associate  
CSR & Communications Department



COVID-19 has definitely changed the way we see things, how we live and interact with each other. Previously, my New Year's resolutions were to save money, exercise more, learn a new skill, and break a bad habit. But this year has been looking a little different. Due to the COVID-19 outbreak, it has been difficult for most of us to think how the rest of 2021 will turn out. We are now faced with the pandemic fatigue, resulting in a lack of motivation, irritability, anxiety, and hopelessness. Also, I have been noticing that I am getting easily stressed out over small tasks that would normally be handled easily. I have been adjusting to the new sleep routine and diet and it is going to be okay for me.

Living through a pandemic has given me life lessons as we are faced with uncertainty and restrictions while adapting to the new normalcy. I came up with a new strategy to beat the pandemic fatigue.

**Stay at a distance physically but not socially:** I will continue practicing COVID-safe behavior in my everyday life and take precautions to limit the spread of the virus to my family, friends, colleagues, and so on. It is important that we stay connected with friends and regularly check in to see how they are doing via video chats, phone calls, or text messages. We must find ways to spread positivity during this time for all my loved ones and brighten their days as much as we possibly can.

**Make the best of my current circumstances:** Rather than focusing on what I can no longer do, I will start looking for ways that I can take advantage of the current situation. For instance, are there any hobbies that I would like to try out now that I have some extra time? What fun things can we do as a family now that we are spending more time staying in?

**Stick to a routine:** Come up with a schedule that reflects the current situation and stick to it. Set aside specific times to do work and household chores. At the same time, find time to visit outdoors, exercise, and spend time with family. It is important to periodically review the routine and revise if necessary, to stay sane and fit! ■

## Insight!

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### Publishing the Third Environmental Monitoring Report from MPRL E&P

MPRL E&P successfully published our Third Environmental Monitoring Report for the Enhanced Oil Recovery (EOR) Program of Mann Field.

The Report covers not only the progress updates on the implementations as per the Environmental Management Plan (EMP) and regular monitoring activities, but also covers the social management activities and performance in Mann Field, for the period from April 2020 to September 2020.

### Publishing the Third Environmental Monitoring Report from M&AOSB

M&AOSB demonstrated its compliance with the ECC obligations by submitting Bi-annual Environmental Monitoring Report for the third time successfully.





## Safe Driving Awards: Recognizing the Skills and Expertise of Quality Drivers

**Moe Thu Zar Soe**

The first private Myanmar Company as well as a major leading service provider in the upstream energy sector of Myanmar and the region, Myint & Associates Co., Ltd. (M&A) is proud to acknowledge the skills and achievements of our company drivers.

M&A invests time and resources in recruiting, training, and assessing professional drivers because we believe in having a skilled workforce as part of maintaining a strong and sustainable business strategy. All drivers including company car drivers have the responsibility to maintain control of their vehicle at all times while ensuring the safety of the passengers. To highlight a few, the company car drivers must be alert at all times, fast in making a decision, and maintain good levels of observation and attention, while implementing safe and responsible driving practices. Every month, M&A recognizes those that excel in their jobs by putting safety at the forefront of their daily routine of driving.

We would like to acknowledge a few recipients of the Safe Driving Award for the third quarter of the fiscal year 2020-2021. They are U Kyi Khine Soe, U Zaw Htwe and U Tun Tun who have all shown us their unwavering commitment to the safety of our passengers. "The awardees are recognized for safe driving habits, road sense, and awareness," said the M&A's Management. "With a proven record of having the longest and most consistent clean driving record in the cities around Myanmar, we are proud to reward them and acknowledge them as Safe Driving Award Winners."

To highlight and acknowledge company drivers

who practice safe driving as part of their daily operations, M&A has developed the Safe Driving Award Program, which has become very effective in fostering a community of good drivers. This program analyzes if the drivers' records are in line with standard driving kilos and then determines the award recipients based on their overall scores.

M&A looks forward to continuing its support and acknowledging the accomplishments of all drivers including commercial vehicle drivers for having consistent clean driving records. It may sound easy but in reality, is it not? Congratulations U Kyi Khine Soe, U Zaw Htwe and U Tun Tun! ■



## Increasing the Effectiveness of Local Knowledge: Animal Husbandry and Veterinary Healthcare Training for Mann Field Communities

**Moe Thu Zar Soe**

Investing in vocational education directly increases the effectiveness of local knowledge on the use of local resources, and helps minimize expenses and manage livelihoods profitably and sustainably. To help support the community's livestock breeders to improve livelihoods, increase productivity and income, MPRL E&P has recently collaborated with the Livestock Breeding and Veterinary Department (Minbu) to organize an Animal Husbandry and Veterinary Healthcare Training for the Mann Field communities. The three-day training program was conducted at Auk Kyaung Dhamaryone from 2 to 4 December 2020 while following the COVID-19 prevention guidelines issued by the Ministry of Health and Sports. Dr. Aung Myint, Head of Department, and Dr. Ei Ei Swe Aung, Deputy Township Veterinary Officer, conducted the training by covering the topics of animal selection, free-range chicken, goat, pig, and cow farming as well as veterinary healthcare and artificial insemination in animal husbandry. A total of 26 trainees from the 10 surrounding communities in Mann Field attended the training.

As part of the training follow-up activities, our CSR Field Team conducted the post-training evaluation with the trainees to collect feedback on what the participants had learned during the training and how they have applied the knowledge in their daily livestock farming practice. The team also collected information from the trainees about developing data on types of livestock, common animal diseases, and average farming quantity to plan out the next year's Livelihoods Development Program. Besides, in December 2020, our CSR Field Team facil-

itated a meetup between LBVD-Minbu and former animal husbandry trainees to discuss diseases and difficulties faced in livestock farming, and to distribute I-2 eye drop vaccines for free-range chickens.

To further support skill development and introduce new practices, MPRL E&P's CSR Team had a discussion with former trainees to arrange Animal Healthcare Refresher Course at an appropriate time in Mann Field. ■



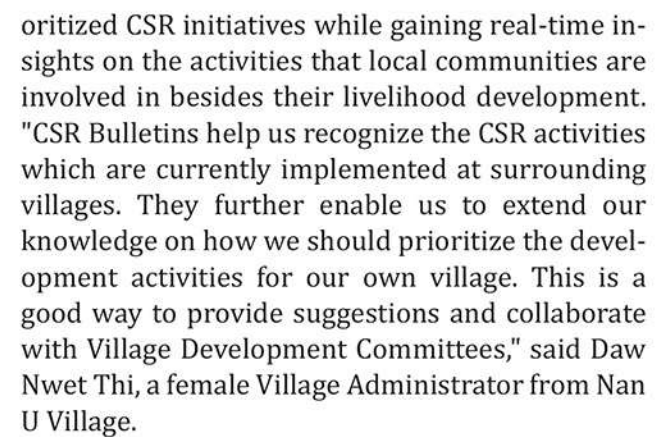


**Moe Thu Zar Soe**

A photograph showing a man and a woman in a rural setting. The man, wearing a white cap and a blue and white striped shirt, is seated and looking at a book. The woman, wearing a pink and white striped hat and a blue jacket, is standing and holding the book open for him. They are surrounded by lush greenery and a wooden fence.

[illegible]

Our CSR bulletin is prepared by MPRL E&P's CSR Team and is easily accessible, especially for those who do not have traditional means of communication channels and social media platforms. Every month, Mann Field communities look forward to reading the bulletin because the context of the CSR programs are informative and interesting. In addition, they are pleased with this type of communication because it is easily comprehensible, available and practical, encouraging them to share their feedback directly with the Community Volunteers. The monthly CSR Bulletin provides a platform for both locals and employees to understand the pri-



Ma Mya Cherry Naing from Mann Kyoe Village reflected: "Local people are now able to gain a better understanding of the company's CSR activities through the monthly CSR Bulletins, which are published in a familiar language. We have been grateful with the systematic implementation of the CSR projects so far, motivating us to further collaborate with MPRL E&P".

It is clear why CSR is important to organizations and communicating CSR activities to stakeholders are necessary. It develops public trust, attracts talents and engagement from the communities, which lead to a win-win situation. CSR reporting is crucial as it shows the impact of the activities on the environment, on society and on the country's economy. Besides, it is interesting and pleasing to find out about the integration between the local communities and business operators working towards the same goal. ■





# Knowledge is Power | Weekly Peer-to-peer Technical Knowledge Sharing Sessions Held via Online Platform

## Communications Team

During the crisis of COVID-19 pandemic and Work-from-Home period, the engineers both from Yangon and Mann Field Offices participated in the Weekly Technical Knowledge Sharing Sessions online. Here we present you the voices, feelings and experiences of the engineers.



First, let us hear the opinions of U Myo Than, who is a Senior Engineer and also a Supervisor in all Pulling Units (DJ-2) at Mann Field Operations. He graduated from Rangoon Institute of Technology (RIT) with a Bachelor's

Degree in Petroleum Engineering in 1979. He started his career as a Production Engineer at Mann Field in 1980. He worked for 14 years at Mann Field and 5 years at Htauksharbin and Kanni Fields. While he was working at Htauksharbin and Kanni Fields, he had a chance to work at MPRL E&P's Mann Field Enhancement Project as a Secondment from 1999 to 2002. After working at Indaw Well Testings, Kyaukkhawt and Latpanto, Thargyi Taung, and Sabi Field for about 5 years, he left his job to look after his 83-year-old father. After his father had passed away, he joined MPRL E&P in July 2010. All in all, he has over 10 years of working experience with MPRL E&P.

What an interesting journey of professional experiences!

Now, let us see how he has been coping with the challenges of a new normal lifestyle during his stay at Mann Field Base Camp. U Myo Than said the normal working schedule for Mann Field Operations is 28 days on and 14 days off, so during the work-from-home period in Mann Field Base Camp, he prepared the presentation to share among the colleagues based on his existing professional knowledge.

When his turn came, he did a presentation on "New Well Testing (Mann Deep East-1) M-668" which was drilled by Asia Drilling's Rig AD-2, proposed to drill to 14,600 ft and to test "Shwesettaw Formation". He said that Well Testing provided answers you could not get in any other ways. Since the branches and diversity of engineering fields are vast, it is beneficial that he shares his knowledge and experience on Well Testing Equipment with the rest of the engineers from different fields so that they fully understand and put it into practice in their next Well Testing.

U Myo Than had also learned a lot from the junior engineers and co-workers during the Knowledge Sharing Sessions as all of them are capable and qualified professionals.

He added, "If I had the chance to participate in the second round of the Knowledge Sharing Session, I would like to talk about "Hydraulic Fracturing Project at Mann Field". I would love to share my several decades of experience in the oil and gas industry with the younger generations. ■



Now let us turn to another Senior Engineer, U Aung Myo Nyunt, who is mainly in charge of drilling mud and fluid under the Drilling Team and has had 17 years of working experiences with MPRL E&P. His responsibility is to successfully

achieve field daily operations on time without Lost Time Accidents (LTAs) through testing and injecting fluid treatment systems while preparing enough completion/ work-over fluid to physically check the drilling fluid materials, stock damaged items and prevent shortage for daily operations in compliance with Environmental Compliance Certificate (ECC) Commitments on a monthly basis. Under the work-from-home period at Mann Field Base Camp, he attended online reinforcement trainings held by HR, CSR, Material and Logistics, HSE, M&A Telecoms, and Compliance Departments. In regards to the Knowledge Sharing Session, he said, "I felt most satisfied to have shared about the "Safety Moments concerning Memorabilia: root causes and lessons learned based on 3 wells deepened in Mann Field: M-435, M-598, and M-640".

When he was asked about the best things about Knowledge Sharing Sessions, he answered: "Technology keeps moving and it will never cease". He said he was very pleased with his colleagues including the seniors and juniors because they let him realize and taste the advanced technical hodgepodge of Petroleum Engineering.

U Aung Myo Nyunt is enthusiastic about sharing his decades of experiences in the second round of the Knowledge Sharing Session, and he has already chosen the topic, "Shut-in Procedures" (Floating Rigs) regarding two types of indirect operating systems: Hydraulic and Multiplex Electro-hydraulic.

It is really aspiring to see the above two Senior Engineers who apply their professional knowledge and experience to their fullest in their workplace and share them with the next generation. Now shall we move on to another interesting field of engineering? ■



Let us meet the Senior Subsea Engineer, U Kyaw Thet from the Development Team who has had nine years of oil and gas (subsea) engineering experiences. How he came about to work for MPRL E&P is quite interesting.

He had lived overseas for more than two decades and he found out about the vacancy through a job fair held in Singapore back in June 2019, where he got the opportunity to further his interest in returning to Myanmar to work.

"It was indeed 'the stars are aligned' moment for me!" he said.

Fast forward to September 2019, after having a video interview and a face-to-face interview, he landed a job as Senior Subsea Engineer in the Development Team for Myanmar Offshore Block A-6 Integrated Project. At present, the Pre-FEED process is almost close to completion after nailing down the major design and process factors of the project. Product (Gas) sales negotiations with domestic and overseas potential customers is progressing. He is very much involved with both technical and commercial (project financing) aspects of work, thus enriching his knowledge and experiences in his field of profession. Being an engineer with a mechanical background, he considers himself fortunate to be invited to and involved in a Knowledge Sharing Session where he had learned in-depth knowledge about nitty-gritty details also about onshore production.

As a give-back to the team, and with great support from Deputy Technical Manager (DTXM), Sayar U Thu Nyo, he presented "Engineering Design, Subsea Christmas Tree and Wellhead Systems, Subsea Manifolds, Subsea Controls, and Remotely Operated Vehicle (ROV)" during the session. His part lasted four days, he shared and discussed his knowledge and experiences in detail, and is eager to learn and contribute more in the future. ■

*Three Senior Engineers both from onshore and offshore fields presented their views, feelings, and opinions, and it is really motivating to see that all of them had applied the principle of "Sharing is Caring".*





Now let's hear from the young generations, the two Junior Engineers from Mann Oil Field.

U Tun Zar Mung, a Junior Engineer, said, "Everything was great until the world-renowned villain aka COVID-19 emerged and became a pandemic. At first, it shook us to the core because of its transmission rate and the intensity of the virus."

When local transmissions became more common when the second wave hit, inter-state lockdowns became effective right after he got back home from the field. He was informed on the spot that all personnel who just returned must stay home and work remotely. During this period, Deputy Technical Manager (DTXM) came up with this brilliant plan called "Knowledge Sharing Sessions" for the Technicians and Engineers from Mann Field who could not return to the field.

Let's further explore what U Tun Zar Mung shared during the session.

"I presented twice with the topics, "Criteria in Designing Conventional Cement Slurry" and "Sand Control with Shape Memory Polymer" where both topics were related to my favorite parts of study during the university days. Cementing was what I specialized in for my final year thesis and I really enjoyed sharing this topic with my team." He also added that certain topics like "Subsea Equipment on Mudline" and "Decline Concept" were really nourishing. He also learned that there is still so much more to learn relating to oil and gas and said it was a great experience overall because all the experts came together to share their experiences with us. "If I ever have an opportunity like this again, I will surely talk about Well Intervention," said U Tun Zar Mung with delight and enthusiasm. ■



Last but not least, let's meet the female junior petroleum engineer who shared her experience in the male-dominant industry. She is none other than Daw Yu Nandar Myat. "Being a female engineer out in the petroleum field can be quite challenging, yet I have encountered the biggest global challenge of 2020 - the COVID-19 pandemic, which has created a nightmare for the industry. Taking the bad with the good, our company has benignly handled this problem in a nimble way," said Daw Yu Nandar Myat, optimistically.

During the Knowledge Sharing Sessions, she did two presentations, "Review on the Treatment Strategies of Petroleum Oily Sludge" and "Study on the Solid Control System of Drilling Waste Management". She felt that MPRL E&P provides room for young professionals to grow professionally, which is incredibly encouraging. She felt she could express her ideas authentically and freely with confidence. "Our ideas and suggestions are respectfully accepted. Seniors prefer to negotiate, guide, and instruct the new blood like us without any criticism. This is the beauty of our industry," she said with a big smile.

She strongly feels that all of the seniors are very warm and welcoming during the Knowledge Sharing Sessions. She believes that sharing knowledge and information also helps to alleviate the stress that everyone experiences during the COVID-19 pandemic and the genuine warmth, kindness, and support among the co-workers are overwhelming. "Special thanks to Deputy Technical Manager, Sayar Nyo, who initiated the idea of Knowledge Sharing Sessions where we all have the opportunity to expand our professional experience and knowledge in this field," said Daw Yu Nandar Myat, thankfully. ■

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# Cherishing Talent within Workforce:

## Interviews with Two Outstanding Performance Awardees

### Communications Team

*For the first half of the fiscal year 2020 - 2021, MPRL E&P appreciated two outstanding performers from Yangon and Mann Field offices. Let's have a look at what their driving forces and inspirations are to have won the awards!*



**U Moe Thu**  
Reservoir Engineer  
Reservoir Engineering Department

**1. Can you briefly describe your work experience, role and responsibilities at MPRL E&P?**

I started my career with MPRL E&P as On-the-Job Trainee Engineer on 1 January, 2014. Within two years, I moved up to take on the role of Assistant Reservoir

Engineer in the Engineering Department. In 2019, I got promoted to Reservoir Engineer and since then, my responsibilities have been to assist and support the technical and commercial evaluation of Mann Field Project, various joint ventures and new partnerships including the offshore Block A-6 Integrated Project.

**2. You have won an Outstanding Performer Award for the first half of fiscal year 2020 - 2021. Could you share your feelings with us on achieving this award and your thoughts on what makes one a top performer, especially during the COVID-19 pandemic?**

First of all, I would like to thank my colleagues, Mentors, Senior Management, and Technical and Business Support Teams for their unwavering support and encouragement, and for seeing the potential in me. This recognition would not have been possible without their continual support. With this ongoing COVID-19 crisis, we have to adapt the "new normal" work culture of working from home. This award makes it a memorable milestone for me because it gives me an inspiration to work harder and also, motivates me to perform better at work. And I think having effective communication skills, self-motivation, and a drive to succeed in life are what make one a top performer among his or her peers.

**3. We heard that you have won Outstanding Performer Awards before and this is your third time receiving this award. How does it feel to win this award again? Is there a secret recipe behind all this and would you mind sharing it to motivate others?**

This is truly an awesome feeling and thank you for giving me this opportunity to share my gratitude and my personal beliefs with everyone. I am overjoyed to have won this award again and there is no secret recipe. Here are my thoughts: always stay humble for the award you have received remains in the past, not the present and you must work hard for it to get this kind of recognition. Secondly, you must find self-motivation and reinforcement to succeed in life. For me, my inspiration comes from our Country Manager because I see his strong passion and dedication for work. The most important thing is to be passionate about your career, when your work is aligned with your passion, you are bound to succeed.

**4. How does your team support you to achieve the Outstanding Performer awards three times during your professional life at MPRL E&P?**

Both the Reservoir Engineering Team and the Head of the Department always assist me to reach my potential and make sure I get proper help, advice and direction before starting any assignments. It has been a pleasure working with them. I am grateful.

**5. Any motivational quotes or motto that drive you to be who you are today and who you are going to be in the coming years?**

Abraham Lincoln once said, "I walk slowly but never backwards". This is my life motto; I keep myself motivated and always ensure I tackle all tasks, small and big, with patience and detail and when I encounter a problem, I make sure I take a short break and continue the work and move on. My goal is to become a successful engineer and I look forward to sharing my accumulated experiences with the next generation.



**Daw Thin Thandar Win**  
Junior Engineer  
Field Operations Department

**1. Can you tell us how you ended up at MPRL E&P and your role and responsibilities in the Field Operations Department?**

Mingalarbar! As soon as I finished my final year thesis, I applied for a job interview at MPRL E&P. It has been two years now and

currently, I work on the Data Inspection and Processing Team where I am in charge of monitoring and managing the field production and technical data including invoice processing.

**2. You are one of the two Outstanding Performer Awardees for the first half of the fiscal year 2020-2021. Would you like to share your feelings with us? What do you think is the main driving force to achieve such recognition?**

Well! That was so unexpected and I feel blessed to have received this award. Massive thanks to the Senior Executive Management for giving me this opportunity to be part of MPRL E&P, and my field team for their support and guidance. My inspiration is Ko Moe Thu, he received the same acknowledgement as me and I am so happy for him. He is someone who I look up to as my role model since my intern days. The key driving force for me is my strong passion for work, which inspires and motivates me to come up with innovative ideas.

**3. You are currently working in Mann Field Operations. How has COVID-19 impacted the team's daily field operations tasks and how have you overcome this "new normal" on-site?**

The challenges we face come from the regional restrictions due to the COVID-19 outbreak and as a result, shift changes became ineffective. Therefore, the Field Management Team had to run the operations with tight manpower while ensuring work safety by complying with the MoHS guidelines. I honestly think that staying at work for a certain period during the crisis causes fatigue, stress and most importantly, homesickness. I always try to stay energetic and focused, and tell myself that I am not alone in this situation. There is always sunshine after the storm, so why not!

**4. How does your team support you to achieve the Outstanding Performer Award?**

Everyone here is very supportive regardless of their role and gender. They are approachable and they always provide good feedback and honest suggestions, which help me realize my own flaws and enable me to improve myself. This award would not have been possible without my team's support.

**5. As a female engineer, what do you think are the key factors to get a job done successfully in the field operations?**

Self-confidence, open-mindedness and self-trust are necessary to overcome any challenges we face. And that being said, I think taking up on the challenges will improve your potential. We are capable and strong; we do not have to either stand alone or stay behind just because we are women. We stand side by side with men.

**6. How do you cope with the "new normal" lifestyle at Mann Field Base Camp? How do you make sure you maintain mental and physical health during the outbreak?**

As I have mentioned before, I focus on my work duties and assignments and stay positive. I am glad to have supportive colleagues. I try to stay fit by playing table tennis, which has become my newfound hobby.





## THINKING ALOUD with

**U Han Myo Aung**  
Environmental Officer (Mann Field)

**First of all, please introduce your role and responsibilities at MPRL E&P.**

As an Environmental Officer, I am responsible for the implementation of the EMP (Environmental Management Plans) which means I make sure that environmental regulatory requirements follow the National Environmental Quality Emission Guideline (NEQEG). I am in charge of monitoring and the implementation of environmental protection measures, ensuring environmental monitoring and inspections/audits are undertaken according to the requirements of the EMP. In addition, I am responsible for implementing our company's Environmental Policy and its objectives, preparing the Biannual Environmental Monitoring Reports, and promoting environmental awareness among our crews and communities.

**We understand that your duty station is Mann Field. Could you please talk about the environmental initiatives completed in Mann Field for this fiscal year? What kind of challenges did you have to overcome because of the pandemic?**

For this fiscal year, we have conducted many environmental awareness-raising activities for MOGE and MPRL E&P staff such as sewage water disposal system renovation at MPRL E&P's Base Camp, plastic bags usage reduction, and recycled waste management. Also, we did knowledge sharing activities including monitoring of field activities to avoid or reduce contamination of the environment and strengthening waste segregation practices among many other initiatives.

Because of the pandemic, there is a delay in implementing the environmental awareness program to be conducted for the communities and schools in collaboration with the CSR & Communications Department. There have been some setbacks related to the air, noise, water, and soil monitoring program and so we are required to work closely with the Site HSE Team and other related departments like MOGE and Environmental Conservation Department to manage these issues.

**Currently, you are working from home. How has your remote working experience been like? What are the advantages and disadvantages of working from home?**

Due to the current traveling restrictions, I have been working from home and have been waiting for my turn for the crew change. As for me, there are many advantages of working from home; I have more time to spend on my work as there is no more time spent in transportation, I have less chance of coming in contact with people so my risk level is low. Also, I've gained knowledge by attending knowledge-sharing sessions conducted by MPRL E&P Group of Companies as well as participating in external and interdepartmental knowledge sharing sessions virtually from the comfort of the home environment. But of course, there are certain disadvantages like electricity cut-offs, technical problems, and some poor data network conditions.



**Please share your professional background including working at ECD before joining MPRL E&P as an Environmental Officer. What was your motivation to move from the public sector to the private one? Was it a good decision?**

After earning my Bachelor's degree in Electrical Power from Yangon Technological University (YTU) in 2002, I started working as Assistant Manager in the Myanmar Timber Enterprise and as Staff Officer in the Environmental Conservation Department under the MoECAF (Ministry of Environmental Conservation and Forestry) for more than 15 years. Then I joined MPRL E&P in August 2019 as Environmental Officer. The main reasons why I moved to the private sector are to break out of my comfort zone, expand my horizon, and get a wider perspective and experience on the side of the compliance role instead of the enforcement role. Yes, definitely working in Oil & Gas sector has been one of my dreams and now that it has come true, I feel very motivated with a new mindset and I am ready to solve any challenges in my job.

**Could you briefly talk about your observation of the environmental topics that have gained attention in light of the COVID-19 pandemic?**

We know that COVID-19 was a zoonotic disease and it has been recognized as a serious threat to humans by global health experts. Pandemics result from the destruction of nature and according to some reliable reports, future pandemics will emerge more often due to the impact of human activities on the environment. COVID-19 is an alarming signal about loss and degradation of biodiversity and their habitats, deforestation, climate change, land conversion, wildlife trade, etc. and it also indicates a requirement to start rebuilding planetary health. We have to save our environment because everything on our planet is interconnected and we are part of the equation! ■

From Page 7

**6. How do you stay physically and mentally healthy during COVID-19 work-from-home period and how do you keep yourself productive and motivated?**

I strictly follow and adhere to the guidelines set forth by MoHS. I make sure I eat healthy food that boost my immune system, sleep well, and come up with fun at-home activities for my family. For example, there was a time when I watched this cooking show on TV and made something delicious for my mother. And working remotely has been hard. I have a dedicated a work-from-home setup in my house and set a daily schedule as if I am working at the office.

**7. As a Reservoir Engineer, what is your thoughts on the global oil market in the upcoming years?**

It is hard to predict the global oil prices because of various risk factors such as politics, economics, COVID-19 impacts, including many other uncertainties. In my opinion, the global oil supply and demand will go back to normal in the coming years. Demand for fuel consumption in general will increase as we adapt to the new normal, new coronavirus culture alongside with the good results from the vaccinations. ■

**7. At the end of the day, what gives you the most satisfaction at work?**

I feel most productive when I solve problems at work. I feel satisfied because I am contributing towards the same goal as a team and also, when I have effective group discussions relating operational concerns. ■

*"Self-confidence, open-mindedness and self-trust are necessary to overcome any challenges we face. And that being said, I think taking up on the challenges will improve your potential. We are capable and strong; we do not have to either stand alone or stay behind just because we are women. We stand side by side with men."*



## Bouncing Back Better

### Thal Sandy Tun

*From farm to construction to sales to petroleum field, this Junior Engineer steered a kaleidoscopic career life through thick and thin.*



### U Soe Kyi

**Junior Engineer  
Field Operations Department**

The oil and gas industry is known for its boom and bust cycles – with every boom, jobs are added while they are taken away with every bust.

After undergoing redundancy during the industry downturns, some individuals have discovered greener meadows in other lines of work. U Soe Kyi was an On-the-Job (OJT) Engineer when he was given the boot amid the company-wide downsizing as a result of the 2015 industry contraction. Nevertheless, he made a return to the oil and gas sector in 2018 as a Junior Engineer in Mann Field. The 33-year-old leapling's story might sound familiar to those in the oil and gas industry who have experienced similar experiences in their professional careers.

Throughout his childhood, Soe Kyi would sight the nodding donkeys in Mann Field as he traveled by road to Minbu from his hometown. Seeing the operating fields and equipment every day sparked a keen interest in him, which led him to pursue a degree in petroleum engineering at university.

He said with a smile, "At least, I had seen an oil field when I decided to study petroleum engineering. Most of my friends and junior students pursuing petroleum engineering had no clue about the oil and gas industry, better yet, what a career in oil and gas entails."

His 6-year university student life was a typical one, he said, but what he would always remember about his student life was commuting to the university, which was seven miles away from Magway, on a crowded HINO bus-sometimes he would stand on the bus all the way to the destination.

Concerning engineering and industrial trainings, Soe Kyi claimed, "Throughout my university life, I had been to three oil and gas fields as part of the year-end field studies; Nyaungdon Gas Field, Htaukshabin Oil and Gas Field and Mann Field, all of which are primarily onshore fields."

After graduating in 2010, he was sure he did not want to work in public sector and he had to go to Yangon for better employment options. Nevertheless, for the first few years, Soe Kyi got himself busy on his parents' farm before he took up an interim job at a construction site in the country's capital, Nay Pyi Taw. Soon he started to try to become a petroleum engineer and he quietly vowed he would never come home unless he became one.

Outfitted with a Bachelor's degree in Petroleum Engineering from Magway Technological University, he made all the way from his home town, Pwint Phyu in Magway Region, to Yangon to find a foothold in the country's oil and gas industry-first as an OJT Engineer in 2015 and then as a Junior Engineer in 2018.

For a few years in between, to keep his unemployment period to a minimum, he decided to take on the role of Samsung Myanmar's Retail Area Manager for the northern Shan Region and later, got married at his hometown in Magway. Feeling confident and determined, Soe Kyi buckled down and prepared to make another return to the oil and gas industry, which started to come out of the woods two years later.

"Normally, I can work in other fields without much difficulty, but I have been trained to be a professional engineer in an oil and gas field and it was a disappointment for me when my education and career expectations did not match. All the signs were indicating that I made a return to the (oil and gas) industry, pushing me to immediately send in an application and prepare for an interview," the Junior Engineer recalled.

He was further encouraged by his wife, a senior nurse at Pyin Oo Lwin General Hospital, and his parents who knew their only child's dream was to work in his favorite field of studies. "They were both surprised and pleased when they found out about my decision to work in an

oil field as an engineer again. They couldn't wait to see me evolve into a professional petroleum engineer! I am sure, if all things are aligned, everyone will pursue their professional dreams," said Soe Kyi.

Soe Kyi knew the job interview was not going to be a walk in the park, he felt like he needed to prepare for it. He revisited critical concepts related to petroleum engineering, brushed up his English skills, and reflected on some of the key interview questions. He was thankful for some of the transferrable skills he gained from previous occupations. He also admitted that it was not easy to switch from one job to another, especially if they are in different fields because it depends on one's age and potential benefits outstripping drawbacks.

After nearly three years in the professional field, the 33-year-old has once again built up his confidence in the daily field operations, feeling eager to solve any challenges at work. The recent COVID-19 outbreak has taken a toll on all of us as employees. He has been taking preventive measures to keep himself safe and healthy. "Together with my colleagues, we play soccer after work which helps me stay fit and reduce stress and most importantly, strengthen our teamwork."

With the coming of the coronavirus pandemic, Soe Kyi thinks it might take some time for the college graduates in petroleum engineering and geoscience to land a job in the oil and gas industry, which has been hit by the virus-driven economic crisis, à la 2020, in tandem with the travel and tourism sectors, but he feels hopeful that the global economy and industry will take a turn for the better.

"Due to the coronavirus outbreak, our field operations have been running with a minimum crew for the past several months. We have started to see a rebound in oil prices as economies set in a recovery mode from the pandemic with the rollouts of vaccines. In my opinion, oil is essential in everyday life and not to mention, natural gas is projected to play a key role in our future energy mix."

The Junior Engineer now lives in Pyin Oo Lwin with his wife and a 3-year-old son. He would normally travel to Mann Field for four weeks on two weeks off rotations to support safety management and physically help out with pumping unit maintenance where his everyday goal is to complete the operations safely and smoothly. ■

*"In my opinion, oil is essential in everyday life and not to mention, natural gas is projected to play a key role in our future energy mix."*







## MPRL E&P On-boarded a Treasury Manager



**Daw Khin Mar Thu**  
Treasury Manager  
Finance Department

### 1. What have been the advantages and disadvantages of working in a position with no predecessor?

I do not think it is a big deal to accept a position with no predecessor and it's quite normal for me. In the past, treasury functions in businesses were just a small part

of finance functions, especially in Myanmar, due to several reasons. For instance, Myanmar companies were not required to pay much attention to currency, financial, or cash management risks before. Things have changed as we see more investments coming into Myanmar. These days, businesses are focusing on long-term investment planning and Myanmar's businesses are experiencing multicurrency usage, which brings out a need to examine and prevent associated risks.

Since MPRL E&P is one of the largest acreage holders in the domestic upstream energy sector in Myanmar, it seems to me that the company has decided to create this position for its long-term business strategy in this sector. In the beginning, there were several minor bottlenecks because there was no solid handover from a predecessor and the COVID-19 pandemic limited my ability to meet with the Finance Team in person. However, I eventually managed to meet the entire Finance team and I am so grateful for their advice and help; they were all welcoming and I was so excited to be part of the cooperative team. I see many opportunities coming my way since I'll be working with experienced expatriates like our CFO Mr. Tee and I am looking forward to learning more about equity and debt financing.

### 2. What are your goals as a primary financial steward handling the company's investment, risk management, tax, and accounting practices?

I am primarily in charge of accounting, cash management, budgeting, and taxation. I have to ensure timely and accurate reporting and also, analyze financial plans, budgets, and cash flow forecasts so that all business operations across the Group run smoothly and efficiently without any hiccups. Moreover, I make sure that we handle all financial processes fluidly when dealing with foreign banks to reduce risks related to overseas cash management on loans and unnecessary bank charges.

### 3. Workplace culture is important for everyone. Which style of work environment do you feel most comfortable and productive in? How was your first week at MPRL E&P?

We all spend many hours at work interacting with one another on a daily basis. Therefore, a workplace culture that fosters and promotes collaboration, cooperation, sincerity, transparency, and friendliness among colleagues and teams is very important for me.

Speaking about my first week at MPRL E&P, I was very excited to take on new challenges at my new workplace. At the same time, I was very proud to open a new chapter here at MPRL E&P since it is a well-established business organization in Myanmar for over 20 years with multiple major projects in the country's upstream energy sector.

When I first arrived at the office, I was pleased to find out that it is a modern, well-furnished, and functioning workplace with proper SOPs. This is truly amazing! The most enjoyable part for me was getting to know the friendly and supportive colleagues. Since the first week, I have been blessed with a very exciting and energizing career life!

### 4. What was the last financial industry that you worked in before you left for MPRL E&P? Could you also share your educational background?

I was at National Energy Puma Aviation Services Company for five years where I worked as a Credit and Treasury Analyst for the first three years and then I was promoted to become a Finance Manager. In terms of my educational

background, I hold a Master's degree in Business Administration (MBA) from UBIS-Switzerland and have completed ACCA Part II.

### 5. As a woman leader in the field of finance, what kind of skills and knowledge are important in your job?

As a finance professional, my main focuses are on accuracy, reasonable forecasting, and compliance with applicable laws and financial regulations as well as financial standards. To be able to do well in these areas, I am required to learn and acquire several skills - analytics, reporting, management, and forecasting, and at the same time, be well aware of the business nature and strategy of the organization I am working in. Moreover, I make sure I keep up with the latest trends and knowledge in my professional field of study.

### 6. Can we say women are pretty successful when it comes to financial and accounting careers?

To say that only women who pursue careers in finance and accounting are successful is an understatement. I have seen many successful women working in science and engineering fields. I believe women are successful even as homemakers as we manage a variety of issues at home. We are intelligent and smart; we will excel in any field especially if it is something we are passionate about.

### 7. How important is Finance for business organizations?

Finance is one of the most critical aspects of a business because it involves the process of monitoring and managing the company's transactions and cash flow to make sure there are sufficient operating funds and also, spending and investing it wisely for long-term benefits. Finance professionals are required to help the organization make smart and thorough decisions on cash flow, come up with sustainable funding strategies and manage risks.

### 8. Except for figures and numbers, what other things interest you? Do you like traveling? What is your most memorable trip?

There are other activities and hobbies that I enjoy doing when I am not working. I love cooking, baking bread and cakes. I also like listening to music as a way to reduce stress. Of course, I love traveling and I have many memorable trips. My favorite is the trip to the stunning Ngapali beach last January.

### 9. How has COVID-19 affected your job? What does it feel like to work from home for this long now?

I don't think that there are any severe impacts because the company implemented a "Work-from-Home Program" and it is because the program is effective and it is for safety reasons. During the first and second wave of COVID-19, we were told to stay home and work remotely from the comfort of a home environment while the organization is operating with a minimum workforce. It has been a new experience for me, to be working remotely, adopting a new normal working style.

### 10. What are your observations, in terms of financial perspectives, in regards to the oil and gas industry and its ongoing trends on the back of a global health crisis?

In 2020, the oil prices started to collapse because of the Coronavirus Pandemic. Worldwide lockdowns in effect reduced demand for oil and gas thus created a negative impact on the industry. On a global scale, the industry has achieved some milestones during the recovery phase with the arrival of vaccines and other factors such as oil production cut by OPEC. We will need to continue monitoring whether the market can sustain this, and whether prices will go back up again in the coming months. ■





# Helping to Get Ready for Careers in Nursing Field

Thal Sandy Tun



The educational partnerships spearheaded by MPRL E&P as part of the CSR Program for the host community in Mann Field provide opportunities for eligible youths in the community to acquire vocational and life skills, which they need to successfully transition to professional careers and adulthoods.

In the contract year 2020-2021 (April 2020 to March 2021), our CSR team, in collaboration with a private training center namely Ayeyarwaddy Training Center in Minbu, continued the efforts in supporting three female students in their twenties from Mann Field (out of 15 applicants) to enroll in a 2-month nurse aide training course.

These selected students said that they found out about the open call for applications by MPRL E&P's CSR Program through the Village Administrators. After discovering the selection criteria which included the requirements of applicants' age to fall between the age bracket (18-30 years old) and must finish at least middle school level, the candidates handed over their applications to the CSR Field Team.

One of the applicants, Ma Za Lat Wah from Lay Eain Tan Village, shared her story by saying how she was so excited about getting accepted to the program. "I have always been interested in becoming a nurse aide and when I learned through the Village Administrator that MPRL E&P's CSR Program was accepting applications for a nurse aide training course, I submitted my application right away. I was eager to learn about how to give good care to those who are ill including the elders and children. One day, I would like to run my own village clinic and provide health care services to the community."

During the one-month practical training course at the Ayeyarwaddy Private Teaching-Training Center in Yangon, the three selected students learned new skills and knowledge including personal hygiene and basic clinical nursing skills, safety and emergency procedures, communication and interpersonal skills, which helped them with their roles in the health care sector.

Another trainee, Ma Hla Wut Yee Lwin from Let Pa Taw Village explained, "In terms of the practical portion of the course, I was excited to learn about a variety of studies which included things like nasal tube insertion, urinary catheterization, renal dialysis, pleural aspiration, blood pressure measurement, blood glucose testing, intravenous injection and infusion, and intramuscular injection. I also studied basic nursing care skills like how to take care of patients who suffered from a stroke and how to help them with rehabilitation exercises, body mechanics and perform home remedies."



The two-month nurse aide training course prepares and enables the students to start working in health care within a couple of months after graduation. It enhances the job outlook for students like Ma Za Lat Wah and Ma Hla Wut Yee Lwin who landed employment with local pharmacies and clinics in the community.

The third and final student, Ma Moe Thandar Naing from Kywe Cha Village, also said, "Since completing the nurse aide training course, I have been working as an assistant to the trainer at the Ayeyarwaddy Training Center (Sub) in Minbu. I am happy that I could use my knowledge and skills right away after finishing the training course. Now at home, I feel more confident when taking care of my parents and neighbors, especially those with health problems. I am preparing to open a small pharmacy in my village." ■

All three students have plans to further their knowledge and skills in the health care field to ensure a long-term impact in their community and secure a rewarding career. They expressed their gratitude regarding MPRL E&P's CSR Program as below:



**Ma Hla Wut Yee Lwin**  
Let Pa Taw Village

"I want to see other youths in the community to be able to gain similar knowledge and skills and I would like to see that MPRL E&P continue its CSR initiatives in the community. I thank the company for supporting me with the nurse aide training course and I hope that under-served youths in the community will have the same opportunities as well."



**Ma Za Lat Wah**  
Lay Eain Tan Village

"I wish MPRL E&P will continue supporting youths in the community and I would like to express my sincere appreciation to MPRL E&P and its CSR Program, which have benefited many of us from the surrounding community in Mann Field."



**Ma Moe Thandar Naing**  
Kywe Cha Village

"MPRL E&P's CSR initiatives have been very supportive among the young community and I hope they will continue to do so in the future."





## From Cover Page

Another setback is endured by Myint & Associates Offshore Supply Base Limited., (M&AOSB), concerning the construction scheduled to be undertaken by the contract awardee China Harbor and Engineering Company. On a positive note, our CSR initiatives that are dedicated towards the surrounding communities of Nga Yoke Kaung Bay have picked up their momentum as we remain committed to supporting their health and livelihoods amid the pandemic. This is something that I am also proud of as we face unforeseen challenges due to the outbreak.

There are certain positive offshoots from MPRL E&P's more than two-decade-long commitments to fulfill the country's energy need, both current and future. I am pleased to say that we have received three appreciation awards from the Ministry of Electricity and Energy (MoEE) in December 2020. As a long term responsible investor, we will continue to apply values-based environmental and social management principles in all our business operations.

At the employee front alongside the recent outbreak of COVID-19, we have documented more than 50 employees across MPRL E&P Group of Companies who have been affected by the virus. This number was not a total shock for me as I was expecting a higher number of cases considering our workforce and the level of contagion of the virus.

Further, we are aware of the fact that there may be those who show no signs of infection but are carriers of the COVID-19 virus. During the second wave of

the outbreak, there was almost no zero contact among communities and this may be due to the strong immunity, which makes a big difference in certain parts of the population when it comes to showing signs and symptoms of the infection. People also behave differently; some individuals strictly follow the pandemic-related guidelines such as wearing a face mask, washing hands, staying indoors, and social distancing while some just ignore them.

Now my question is, will vaccines make a huge difference, especially in a country like ours?

Let me share my thoughts on this. Myanmar, just like any other developing country, faces multiple challenges relating to launching a mass vaccination campaign for COVID-19. It is possible for the country to set up a vaccine fund and I have no doubt that Myanmar people, who are known for their benevolence and generosity, will contribute. However, we have to overcome infrastructure needs and logistics to successfully administer thousands of jabs which will go in phases and prioritization to ensure herd immunity among 54 million people, that is if we can secure a steady stream of COVID-19 vaccines from India or China. While we are getting our heads around these catch twenty-twos, BBC quoted World Health Organization, saying, "The world faces a 'catastrophic moral failure' because of unequal COVID vaccine policies. Over 39 million vaccine doses had been given in 49 richer states but one poor nation had only 25 doses."

To cut the long story short, we need to be strong and positive, and hold our horses towards 2022 for our lives to return to normal as the vaccinations come into full effect and COVID-19 prevention protocols come into full swing. With all this in mind, the country's economy will hopefully take off as the restrictions gradually shed off as we enter 2023.

Although this pandemic is not part of the plan for fiscal year 2020-2021, we have been able to strategically and quickly make decisions that ensure business continuity and employee safety since the get-go as an independent E&P company. Many frustrations and setbacks are shared among many of us, as colleagues, friends, and families. However, I wish to remind you that we must always keep our health and safety in mind but at the same time, it will do no good for you if you are a bundle of nerves at all times. One of the pandemic silver linings for me is having the long-awaited opportunity to spend more time at home with my family. I would wake up very early in the morning, take a long walk with a face mask and avoid crowded areas. En route to home, I would drop by at a local market that is just starting to open to fetch some fresh vegetables and meat. I have recently taken on a chef role at home and have been testing out a variety of dishes with my wife. I think this is one of the best ways to spend time with family and strengthen a positive attitude during the lockdowns and stay home period. Stay safe, stay positive, and stay smart everyone! ■

## From Page 27

What about bury CO<sub>2</sub> out of the air we breathe? Smart petroleum engineers may be tempted to extract carbon dioxide CO<sub>2</sub> from the atmosphere and use it for enhancing oil recovery in Mann Field. This operation, known as Carbon Capture & Storage (fig. 4), constitutes a tertiary oil recovery technique, after secondary oil recovery from pressure maintenance by injecting water and/or gas from the field has reached its limit. Some 120 such projects exist in the USA, but only about a dozen sites in the rest of the world. They all rely on carbon dioxide pumped either from naturally producing reservoirs or from human intensive production, such as coal-fired power stations or cement factories where CO<sub>2</sub> is captured from the gas escaping from the chimneys, and injected in the reservoir rocks. Unfortunately, no such intensive CO<sub>2</sub> production industry exists in the vicinity of Mann Field, and extracting CO<sub>2</sub> from the atmosphere is still an industrial costly dream (US\$ 120 to 600 per ton of CO<sub>2</sub>) in a dozen localities around the world. This proposal in Mann Field may be an eco-

nomically possible when technology to extract CO<sub>2</sub> from air will become affordable, and the oil price will have sustainably rocketed way up through the ceiling. Furthermore, because carbon dioxide would be released again when the oil is consumed, such tertiary recovery would not be a carbon neutral process.

## 5. Conclusion

Offsetting carbon emission has already permeated into the public; as a practical example, we may buy plane tickets online with some airlines, which ask whether we want to offset our CO<sub>2</sub> emission; for a relatively modest sum, our money contributes to fund a carbon sink sponsored by the airline company, such as a reforestation project. As an example, Thai Airways sponsors methane recovery from a garbage landfill to power generators to feed the national electricity grid. This latter project in the suburbs of Bangkok reduces carbon emission by 78,000 tons of CO<sub>2</sub> annually.

What about our Learning Club think tank debating the question of "What More Can MPRL E&P Economically Do Towards Carbon Neutrality?" and propose concrete measures to the Field Team, Resilience Team and ultimately the corporate management?

Want to know more? [https://en.wikipedia.org/wiki/Carbon\\_neutrality](https://en.wikipedia.org/wiki/Carbon_neutrality) may be the start of a long thread of links depending on whether you are interested in politics, economy, markets, greener society.

The World Bank is a very rich source of data on carbon tax for instance, in the <https://openknowledge.worldbank.org/discover> hyperlink. You may dive even deeper in the UNFCCC website <https://unfccc.int/>.

Petroleum engineers might enjoy this excellent USGS paper: Fundamentals of Carbon Dioxide-Enhanced Oil Recovery (CO<sub>2</sub>-EOR)—A Supporting Document of the Assessment Methodology for Hydrocarbon Recovery Using CO<sub>2</sub>-EOR Associated with Carbon Sequestration (by Mahendra K. Verma – USGS - Open-File Report 2015-1071).

All documentation (incl. above USGS report) collated and consulted for this snippet has been downloaded on a share folder at Y:\08.00 Multidiscipline Share\Carbon neutral .

May the fun go on, folks! And don't forget shopping at our CSR shop on 9<sup>th</sup> Floor, further offsetting carbon footprint by buying Mann Field communities' products, in a short producer-to-consumer circuit: cotton bags, soap, shampoo, various locally produced dried veggies, snacks, etc. ■

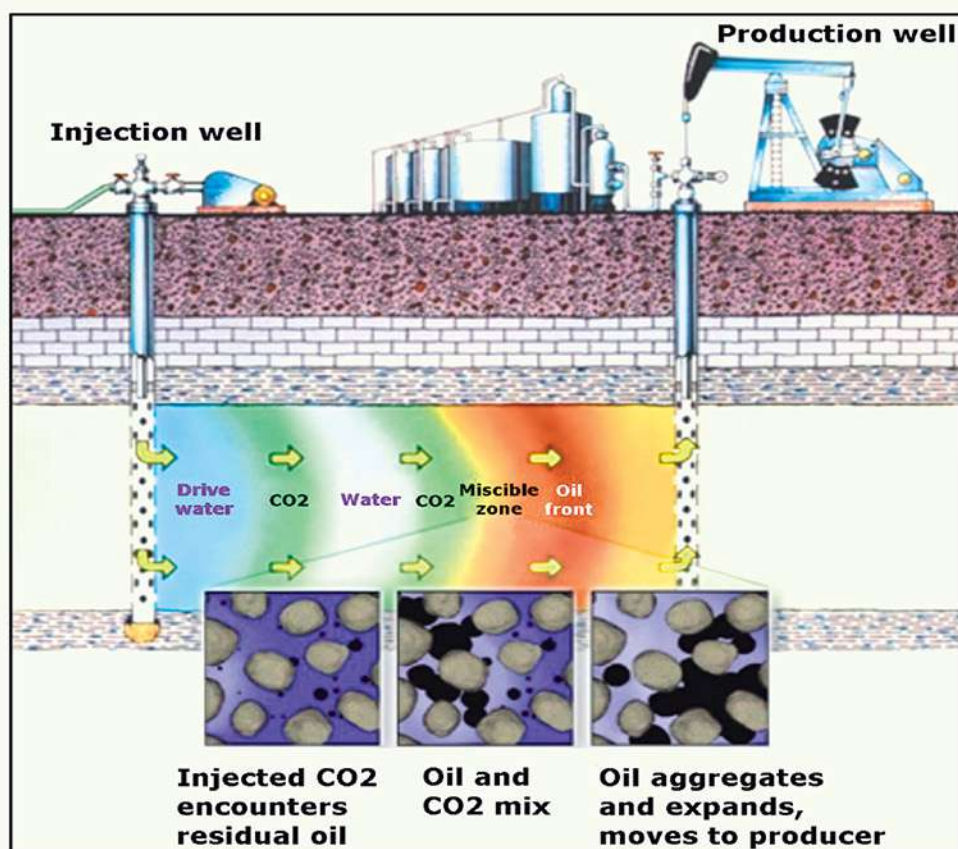


Fig. 4: A CO<sub>2</sub> EOR diagram (from <https://www.energy.gov/fe/science-innovation/oil-gas-research/enhanced-oil-recovery>)



# Who's Who at MPRL E&P?

## Field Maintenance Teams for Pumping Units, Heavy Machineries and Operational Related Equipment

Our field operations are daily routine jobs, and all vehicles, equipment, and tools are in running non-stop at the project site. Many times, we encounter material wear and tear situations and when this occurs, some parts need a new replacement. To handle these technical problems, we have a Maintenance Team who is ready to solve these types of mishaps. We have over 300 oil-producing wells where oil is produced using the artificial lift method. This method uses Tubing, Sucker Rod, Insert Pump, Packer, Tubing Catcher, and other related equipment and on top of this, these components are in operating 24 hours, which is why at one point, new equipment is needed as a replacement. After the switch, we need to service the recovered Downhole Tool with help from the Downhole Workshop Team. Besides their main task, Downhole Workshop Team and Downhole Tool Service Team work together to repair the hydraulic system and hoisting system of the pulling unit.

There are over 230 pumping units in our field, and they are all in good condition. The Pumping Unit Maintenance Team makes regular inspections to ensure that these units are running smoothly. Some parts needed to be replaced with new ones within a designated time frame. All wells are produced using these pumping units and the team is essential for these pumping units to operate smoothly. Not to mention that there are different types of pumping units. It is also important to have the engineers working on-site since they understand the match for well data and unit capacity and also, the various specifications for pumping units.

At our site, we have many heavy vehicles like backhoes, dozers, carrier trucks, and pulling units, which are used for well servicing and workover operations. We have both day and nighttime operations. The Mobile Workshop Team repairs the damaged parts/materials and equipment. Some of the equipment is not only a mechanical base, there are a few that have a combination of both mechanical and electrical systems. This is why Mechanical Engineers are always trying to learn the updated techniques.

All the Maintenance Teams have a plan for Preventive Maintenance (PM) schedule according to their priority level. This maintenance schedule is very effective and useful for our field operations because it provides a reliable timeframe for the equipment to be operating safely. Mainly, the schedule prevents unnecessary hazards and reduces potential risk. We always train the crews who are working in the Maintenance Team to become competent and knowledgeable workers so that they can contribute to enhancing the productivity of field operations.

Besides, our team leaders from the Support Groups also make sure we have spare parts on standby. It is never easy to arrange parts for both short-term and long-term usages. But these leaders have extensive experience in field operations and therefore, they know how to manage and handle the equipment properly. Machinery parts are very complicated to handle and our supervisors always lookout to solve any issues to ensure smooth operation.



**U Myo Win**  
Field Operations Manager  
Field Operations Department

We have a big warehouse for storing operational materials, parts, and well equipment. Our Warehouse Team systematically keeps the inventory in our warehouse compound. They make sure to issue the requested material or parts on time to prevent any delay in operations. They control the stock and inventory list using the supply chain method. They conduct tubing inspection to check the tube condition and if need be, separate the pressure rating of the tubing to be used in operations. They always

communicate with the end-user(s) directly when checking the inventory to avoid unavailability of parts and also, choose the right materials and parts that enhance productivity in field operations. Our Warehouse Team collaborates with the Material and Logistics Department for the materials purchasing process. These activities need to comply Annual Audit Team and Third-party Audit Organizations.

In conclusion, all our Field Operations Teams perform their daily tasks following Occupational Health and Safety Procedure and Policy. If we have or foresee unsafe conditions, all staff on-site including working-level crews have full authority to stop the operation. This is the most important aspect of work safety in our daily field operations. To obtain the highest capacity or productivity of field operations, the Technical and Supporting Teams need to work together as a team, and this is why it is important that we have good communication among teams, and have empathy, goodwill towards one another and show respect for each other. At the same time, we always try our best to improve productivity and take care of materials to avoid unnecessary waste. I am proud to see that all teams collaborate to succeed in our daily operations and solve issues together. Our Field Operations Department strongly believes in supporting the success of our company in its current and future endeavors. ■

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# Uniforms & Corporate Identity

## What's the Big Deal?

Wit Hmone Tin Latt

Before we start talking about uniforms, let's first find out what corporate identity means. The term "corporate identity" may not be very common in everyday language for most of us, but for marketing and communications enthusiasts, it sparks great interest and significance. When we think about corporate identity, a few things that come to our minds are visual elements like logos, colors, fonts, or business cards. These visual elements that are easily seen create a sense of visual identity, which plays a vital role in establishing a corporate identity. You may ask yourself, what does wearing uniforms have to do with corporate identity?

As mentioned before, the visual elements that we easily see develop a variety of visual cues that attract our attention, and consequently, unlock our

memory to quickly make a connections. This intrinsic association between our internal emotions due to certain visual markers and the perception of the organization as a result of these markers set the groundwork for achieving organizational objectives.

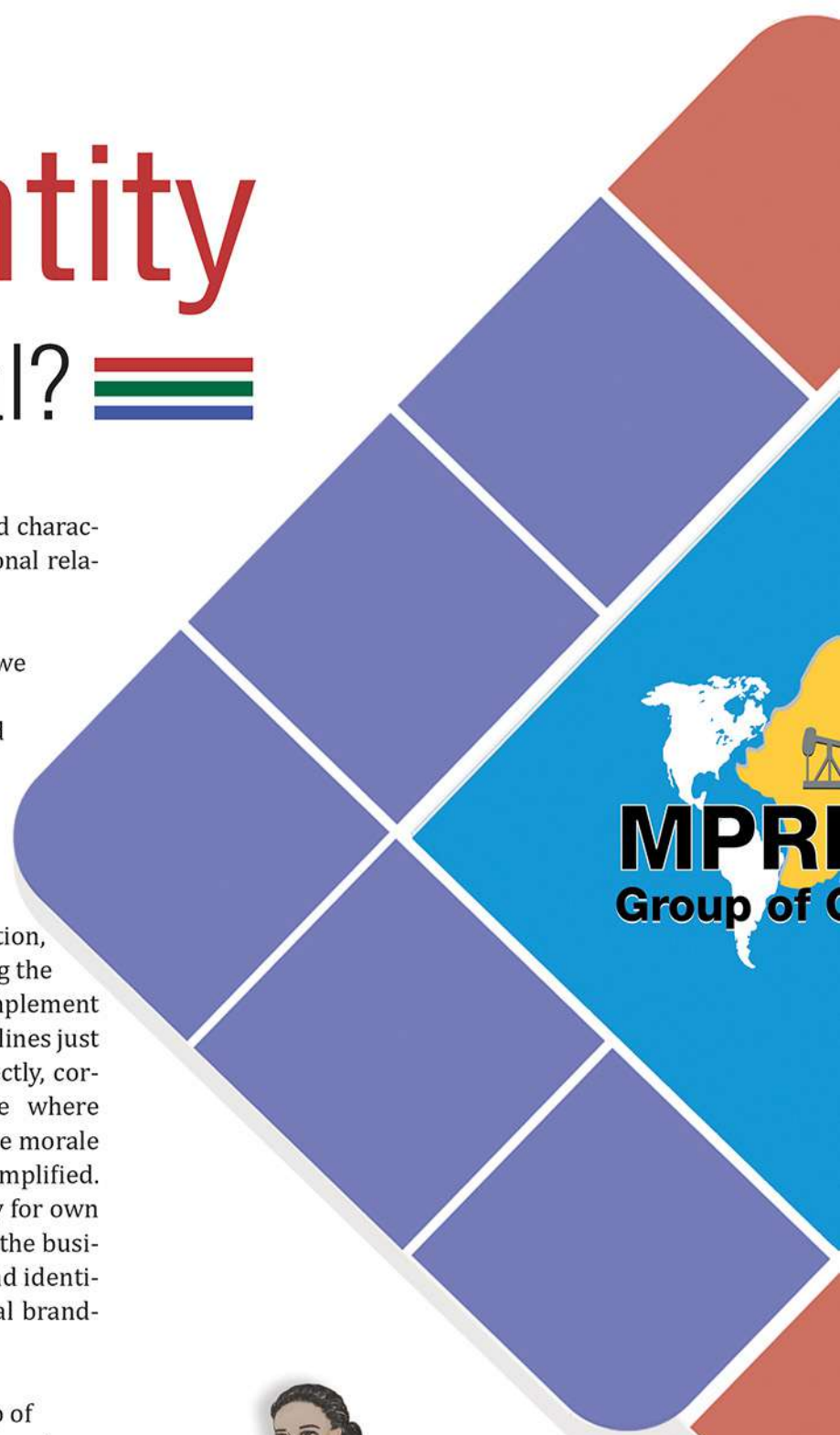
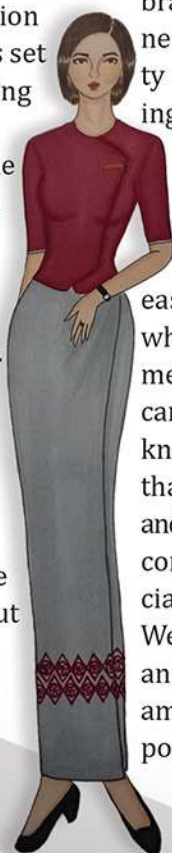
Hence, uniforms, with unique colors and designs, are seen as having a communicative function and as a result, have an impact on the organization's brand identity.

Corporate identity is more than just a graphic design; it represents who we are as a company. Not only it incorporates various corporate design elements but

also the organizational culture, values, and characteristics, which all help enhance professional relationships with the external stakeholders.

Further, based on the discussions above, we learn that one of the components of corporate identity is the uniforms. Shared corporate attire promotes solidarity and belonging, where everyone is equal and no one is different. Also, implementing a company-wide corporate uniform policy produces many benefits for the company - a sense of integrity, sophistication, responsibility, and professionalism among the employees. Many large corporations implement uniforms like the banks, hospitals, and airlines just to name a few. When implemented correctly, corporate uniforms create an atmosphere where teamwork is valued, and consequently, the morale and performance of the employees are amplified. A corporate uniform designed specifically for own brand has a significantly higher value for the business as the outside world connects a brand identity to a particular company through visual branding design.

As an employee at MPRL E&P Group of Companies, I enjoy having to wear a custom uniform to work every day. It makes my life easier because it eliminates the stress of choosing what to wear to work the day before and not to mention, time is money. Also, buying office attire can be expensive and one can spend without knowingly. By wearing a uniform, we feel that we are part of the MPRL E&P team and we have the responsibility to adhere to the company's culture and values, especially in front of the public eye. We believe that good team spirit are developed and positive attitudes are developed among the staff when wearing corporate uniforms because we

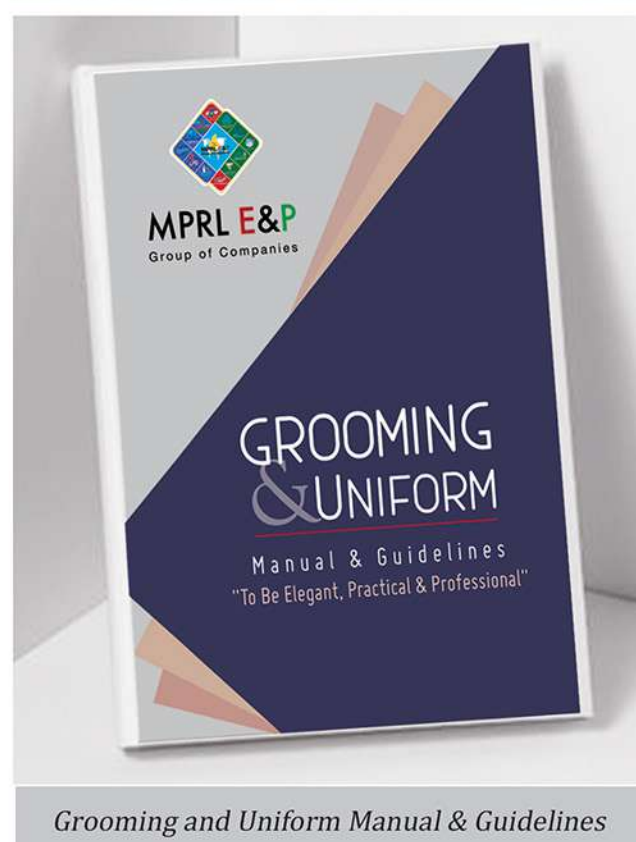




feel that we are working towards achieving the same business goals, thus setting milestones for the company. Lastly, the most important aspect of wearing a uniform is the trust that the external stakeholders place in us, which enables us to easily create strong relationships with them. After all, we are the face of the company for we represent our company.

Here at MPRL E&P Group of Companies, we have a corporate uniform committee that helps maintain and communicate the company's corporate image and identity to the employees. Not only, does the committee put its focus on uniforms; other aesthetical elements like accessories, hairstyle, and makeup must also be consistent with the MPRL E&P brand and identity. The committee provides a set of grooming guidelines for the incoming employees as part of the new employee induction program. The Group has communicated its company culture to all employees through Country Manager's monthly corner office note, quarterly Insight! newsletter, town hall, team building activities, internal knowledge sharing sessions, and many more.

The importance of corporate uniforms should never be underestimated as it correlates to the organization's brand identity. As mentioned above, companies adopt uniform policy because of many benefits it produces for the employees and company itself. Uniforms plays a vital role in a company's marketing and branding effort, which corresponds to positive relationships with the external stakeholders. Nevertheless, a strong corporate identity can improve public awareness through brand recognition and can increase a company's competitive edge among its peers. ■



*Grooming and Uniform Manual & Guidelines*







From Page 13



**U Aung Zaw Lwin**  
Assistant Manager  
Field Operations Department

As an Assistant Manager in the Material and Logistics Team, I am responsible for leading all field operations, warehousing, and logistics functions. I joined MPRL E&P as a Warehouseman in 1997 to work on the Mann Project. In 2000, I got promoted to Warehouse Supervisor and within seven years, I became a Senior Warehouse Supervisor. In September 2014, I moved up to become Field Material and Logistics Team leader and in October 2017, I assumed the role of Assistant Manager with broader duties and responsibilities. This is to summarize my professional timeline revolving around the Mann Field project.

I am proud to say that I am one of the first few people who joined the Myint Family in the early 1990s. At that time, I was waiting for my universi-

ty admission. After working for one and a half months, I was assigned as a Storekeeper at Seismic Operations Field near Chauk which is located on the west bank of Ayeyarwaddy River and was involved in the SSL (UK) and Unocal Onshore Project. After one and a half years later, I went back to Myint & Associates Co., Ltd. (M&A) and was assigned to assist in trading and surveying functions and also, worked on various projects including GCSC hospital, Burger Buster fast food, and Serenity Restaurant. While working on the F&B projects, I was moved unexpectedly to Mann Project in 1997. I graduated from university while working full-time and received a Bachelor's degree in Geography. To highlight my professional experience, I have been working with U Moe Myint's family for more than 30 years now.

Out of my 30 years at MPRL E&P Group of Companies, 23 years were spent working on the Mann Project. My main duties were to support requirements of 18 departments and teams - Drilling, Production, Geoscience, Mud Engineering, Pulling Units, Pumping Unit Maintenance, Measurement, Echo meter, HSE, Waste Management, CSR, Mechanical Workshop, Downhole Workshop, Special Project, Administrative, MIS, Medical, and MOGE Representative. I also had a chance to coordinate with Field Management and Yangon Logistic Teams to ensure smooth operations relating to field materials, logistics, purchasing, loading/unloading, transport arrangements, material transfer for MOGE, etc.

As an Assistant Manager, my main tasks are to oversee the Mann Project Inventory and Warehouse Teams by managing, maintaining, putting in

I was born in 1986 and graduated with a Bachelor's degree in Physics from the University of East Yangon in 2006. I joined MPRL E&P Pte Ltd. (Mann Field Operations) as a Field Technician under the Production Measurement Team on November 16, 2006. It was my first job in the oil & gas industry at the age of twenty. While working under the Production Measurement Team, I was assigned as both day and night supervisor in all GOCS (Gas and Oil Collecting Stations) Number 1 to 5.

I was transferred to Warehouse Department in December 2011 as a Warehouse Assistant. There, I learned about warehousing procedure, house-keeping, material storage location, truck publisher jobs (field operations, drilling operations), transferring job (GD-II rig move and rig down operation, supporting cementing operations), overshot installation knowledge sharing, setting tool installation, servicing knowledge sharing along with other various fabrication jobs at Warehouse Welding Shop under the management of two Assistant Managers (Field Material and Logistics), U Aung Zaw Lwin and U Thet Lwin Ohn who both have 3 years of professional experience in these fields.

I also participated in Hydraulic Fracturing Project as an Operation Assistant to support various tasks involving truck publisher task, tank moving and cleaning, fracturing sand, chemical transferring, and moving with the Assistant Managers.

I was promoted to Senior Warehouse Assistant on 1 April 2014 and with my continuous efforts to become a supervisor, within four years, I assumed the role of Warehouse Supervisor on 1 September

2018. Currently, I am working with the Field Material and Logistics Team with Assistant Manager, U Aung Zaw Lwin.

At my current position, I take care of daily issues concerning finding required materials for field operations and respective supporting teams such as Downhole, Workshop, Special Project, CSR, and Production Measurement. Also, I arrange the Inspected Tubing, Sucker Rod, and other materials for daily Well Operations on time.

I also handle daily In/Out Usage Report (DIS, DRS, MRR) and allocate it with the Authorization for Expenditure (AFE) code. Further, my duties include merging files of DIS, DRS, MRR, FR, and Fuel Usages documents as soft copies and hard copies so that we can place an order for required materials requested by end-users, all information in consistency with Supply Chain Method. To ensure zero discrepancies, I calculate lead time and do counter checks to generate order quantities. I also prepare lists for stock notification for end users twice a month and report back to Assistant Managers including sending emails to all end users and sending FR (Field Requisition) for needed materials using Supply Chain Method. I do a daily physical stock check for DIS items and participate in physical stock auditing twice a year as the annual physical stock check involves MOGE Audit Team and the year-end stock check involves third-party audit teams. We performed well at last year-end inventory auditing and physical stock-taking with zero discrepancies in inventory. We had a great relationship with third-party auditors as well as the MOGE auditor personnel.

orders for materials, updating stock and data, implementing supply chain method with zero discrepancies for stocktaking, auditing, allocating AFE, VFM fuel management along with leading HSE matters, coaching, and solving daily problems, while strictly following the company's code of conduct and policies.

The biggest operational support in my role is the refurbishment of field equipment relating to welding jobs. This is the most valuable contribution to field operations' cost saving. I make sure the Warehouse compound is well organized, maintained, and if needed, upgraded. The Warehouse that you see now is very different compared to the time MPRL E&P took over from MOGE.

We have four team members, including me to run the process of our Warehouse tasks. They are U Kyaw Nyein Chan (Warehouse Supervisor), U Win Htut (Senior Warehouse Assistant), and U Zaw Cho Latt (Warehouse Assistant). Our team is formed with sixteen crew members who are involved in our warehouse daily operations.

We have seven material warehouses, six chemicals warehouses, and five open-sheds. We manage a total of 18 buildings and the total area for the Warehouses is close to 9.2 acres.

I believe that my hard work and performance throughout my career have exceeded the expected level. I received a lot of valuable experiences working at this company and I am very pleased to be part of the hardworking team. I have spent two-thirds of my professional career at MPRL E&P and I look forward to continuing my profession here as I wish for a brighter future for MPRL E&P. ■



**U Kyaw Nyein Chan**  
Warehouse Supervisor  
Field Operations Department

To maintain an accident-free environment, we do weekly safety meetings to discuss HSE matters and solve problems with patience and confidence. I always try to promote "Zero Accident" Safety Culture among the Warehouse Team, Control Warehouse Team and also commit to our Team's daily Tool-box Talk Meeting at 07:15 am where we discuss following Occupational Health and Safety and Environmental Policy and Job Safety Analysis (JSA) with team members and operators. Every Sunday, we have a special Safety Meeting at 7:00 am where all team members and operators share at least one topic relating to safety matters with the team leaders. After the meeting, the reports go to the Site HSE Officer with our combined suggestions. Also, every Saturday, I attend and inform



team members about Safety Training and remind them to write a Care Card if needed. The Warehouse Team participates in various CSR activities like the OGM Campaign, Monsoon Tree Planting, and Trash Hero Minbu Cleanups.

I have 14 years of work experience with MPRL E&P and I love my job. I am confident to embrace any new challenges. MPRL E&P is a family company and my father is still working here as a Senior Logistics Assistant under the Material and Logistics Team since 1997. I see a brighter future ahead of me at MPRL E&P.



**U Win Htut**  
Senior Warehouse Assistant  
Field Operations Department

I graduated from a local university with a Bachelor's degree in Geography on 22 March 2008. Right after graduation, I started working at Myint & Associates Co., Ltd. (M&A) as a Security Officer and was assigned to work at the MPRL E&P office lo-

cated on Merchant Street. After working there for nine months, I moved to the parent company, MPRL E&P. The recruitment process was quite competitive and I was surprised when I got selected for the job interview. The interview was conducted by a group of selected members, and I was so happy when I found out I got the job. I also felt very lucky because getting a job at an oil and gas company is not easy.

On 8 December 2008, I was appointed at Mann Field Warehouse as Warehouse Assistant. My duty schedule included both day and night shifts especially working under the Warehouse Security Management. After my two years' experience at MPRL E&P's Warehouse, I had an opportunity to try out for the Field Technician position at the Oil and Gas Collecting Stations (GOCS). I relocated to work under GOCS-Measurement Team where I spent about a year working for them. Then I was transferred back to the Warehouse as a Warehouse Assistant. On 1 April 2014, I was promoted to Senior Warehouse Assistant.

My duty as a Senior Warehouse Assistant is to assist our Team Leader to monitor the minimum/

maximum level of inventory, verify receipt of materials, and ensure that all material logistics are fully documented and recorded. I manage and handle inventory by preparing computerized inventory data for the team. I am also in charge of transportation arrangements of daily field operations, fuel collecting, distribution, and completing necessary paperwork on time. I am also accountable for the team's compliance with Warehouse procedures.

MPRL E&P is a company that prioritizes social and community matters along with its business operations. To enhance and support this, we participate in all of the CSR activities. The company also arranges for its employees to attend training courses to improve and expand their skills. Among many courses, Developing Leadership Skill Training is one of my favorites because it is very useful and helpful for me.

My work experience at the Warehouse is now 12 years. I enjoy my work at the Warehouse because I love to work there. I still have a lot to learn about material and logistics matters so that I can further my professional career. ■

I started my journey with MPRL E&P on 8 December, 2002 after receiving my Diploma (AGTI) in Machine Tools in 2001. At first, I was assigned with Measurement Team where I had an opportunity to learn more about monitoring the production of oil and gas, collecting hourly rates along with a thorough knowledge of flow and gas lines that lead to Gas and Oil Collecting Stations (GOCS), meter charts and transfer of oil from tank batteries to Total Acceptable Collection (TAC), and TAC to One Million Tank. I worked with the Measurement Team for about five years. During these years, I got promoted to Junior Engineer, Assistant Engineer, and then to Engineer and started working for the Pumping Unit Maintenance Team in 2007 for a year.

Pumping Unit Maintenance Team is a rather important department in most operations of Mann Field. It is particularly essential in oil and gas production. To be specific, daily maintenance has to be carried out according to Preventive Maintenance (PM) schedule so that pumping units can operate regularly. Replacement, installation and maintenance of machine parts are the routine tasks of Pumping Unit Maintenance Team (PPGU). To obtain the optimum oil production, pumping units are planned to move between the low production wells alternately. Moreover, PPGU Team's duty is to prepare and arrange suitable pumping units for non-routine operations such as reopening and deepening new wells.

To maintain each component of the pumping unit as well as the essential parts such as motors and brakes, we cooperate with MOGE Electrical Department. If new parts are required for pumping units, BNU heavy fitting workshop would help PPGU Team with necessary fabrications. We also work with MOGE Transport Department to arrange appropriate vehicles for pumping unit relocations. Currently, I am in charge of Pumping Unit Team but I am also assigned in other departments such as Downhole and Measurement Teams if needed. ■



**U Kyaw Zeya**  
Engineer  
Field Operations Department



**U Zaw Min Latt**  
Senior Engineer  
Field Operations Department

Mingalarpar! I am one of the Mechanical Engineers at the Mechanical Workshop in Mann Field. I graduated from Taungoo Technological University in 2004 with a Bachelor's degree in Mechanical Engineering. I joined MPRL E&P as an Assistant Engineer in December 2006. I am currently working there as Senior Engineer.

Throughout my career, I have worked at several service and maintenance divisions under the Me-

chanical Workshop as Pumping Unit Maintenance Supervisor, Downhole Tools and Equipment Maintenance Supervisor, Tubing Inspection and Testing Supervisor, and Service and Maintenance. All of these divisions are essential in supporting the field operations. I worked at the Mechanical Workshop for the longest where I also served as a Team Leader.

Every day, I start my work with Tool-box Talk. At the meeting, my team and I would share Health, Safety, and Environment (HSE) knowledge with each other and further discuss SOPs (Standard Operating Procedures). Sometimes, I would share our company's CSR activities in Mann Field. After





the meeting, my team and I would make a daily to-do list including daily, weekly, and monthly inspections. Our team is always on alert, when there is a mechanical problem at the site, we would troubleshoot it right away to prevent operational delays. Further, I would do a stock check of mechanical parts and create a "re-stock" list. Our company has an annual internship program and I enjoy participating and sharing my technical knowledge and experience with young engineering students from various technical universities. The internship program is one of the company's best programs for the young generation.

As a Team Leader in Mechanical Workshop, I have maintained good communication and relationships, with MOGE Personnel, Stakeholders, and the Communities by participating in Ceremonies, Cultural Festivals, CSR Activities and Social Warfare Initiatives. Promoting the HSE culture at work is important. I would review the performance of my junior staff, colleagues, and team to make sure they are improving their professional and interpersonal skills along with HSE knowledge and performing well in their respective line of work. One of our company missions is to promote a safe culture in the field operations and to reinforce this, I always motivate my team to operate their assigned tasks safely and efficiently without leaving a negative impact on the environment and community.

In my opinion, teamwork is the backbone of a strong company. We always help each other out to make sure the job is completed successfully and on time. I also believe that physical and mental health is important especially when working on site. My colleagues and I would work out together so that we foster team spirit and as a result, we work better as a team.

I have made a lot of progress in my technical, managerial, and interpersonal skills from the training provided by our company. I am very glad to be serving as Mechanical Engineer in the oil and gas industry, especially in Mann Field. I look forward to contributing my experience to better support the field operations and long-term success of MPRL E&P. ■

I received my A.G.T.I (Mechanical Power) Diploma from Technical Institute (Thanlyin) in 1999. I started my career at Myint & Associates Co., Ltd. in 2000 as a temp. I became a full-time employee on 1<sup>st</sup> June 2001 as Field Technician and was promoted to Junior Engineer in 2011 and Assistant Engineer in 2013.

At present, I am working as an Assistant Engineer at Pumping Unit Maintenance Team. Every day, I maintain pumping units and inspect them to make sure they adhere to the Preventive Measure (PM) schedule. If the unit needs to be serviced, I inform my seniors and perform service work in coordination with the respective departments, whether be light or complicated job.

Before starting any work, I and my fellow crews would gather around and hold a Toolbox Talk Meeting (Pre-job Safety Meeting). We would share and discuss our daily tasks, safety tips, and how to care for the environment and community where we operate. Safety is our first priority and so, I make my team works safely and efficiently. There

are times when a good-producing well's pumping unit would malfunction. When we encounter unexpected issues like this, I would take action right away and repair or replace the bad unit. Depending on the production and well's behavior, we have to transfer the pumping unit to meet the production target requested by Production Team Leader.

At work, I always follow the Job Safety Analysis (JSA) and conduct operations as per Standard Operating Procedures (SOPs). In every operational meeting at night, I report and discuss the pumping unit condition and daily activities. I also check stock for spare parts and produce Field Requisition (FR) on time to prevent spare parts shortages and operational delays. There are times when I get assigned as a Supervisor of Tubing Inspection for Downhole Workshop and Measurement Team, I enjoy everything about it.

I will give all my best to the company. Because of my 19 years of service with MPRL E&P, my family and I do not need to worry about basic needs like education and family health. I feel very proud



**U Saw Min Soe**  
Assistant Engineer  
Pumping Unit Maintenance Team

working as an Assistant Engineer at MPRL E&P. I wish the company more success and prosperity in its future endeavors. ■



**U Aw Zar**  
Engineer  
Field Operations Department

In 2010, I graduated from Magway Technological University with a Bachelor's degree in Petroleum Engineering. I have been working at MPRL E&P Pte Ltd., focusing on Mann Oil Field, since March 21, 2012. I have worked as a Supervisor before at Downhole Workshop and my responsibilities included maintaining the Field Management schedule for Production Measurement, Pumping Unit

Maintenance Team, and Warehouse Tubular Inspection.

Downhole is one of the Workshop Departments and my main responsibility as an Engineer is repairing and maintaining Well Servicing Equipment, Downhole Tools (such as insert pumps, packers, bailer, etc.), drawworks, mast section of pulling units, and workover rig (P-100). While working at Downhole Workshop, I studied to further get a better understanding of the mechanism of Downhole Tools, pulling units, and workover rigs.

Besides, I tried to expand my knowledge by learning from my seniors about Echometer (such as interpreting Pump Card Shapes, Fluid Load on Plunger (Fo), and Pump Intake/Displacement Pressure (PIP/PDP), Calculated Production, Downward Fluid Velocity, etc.) As a result, I gained a better understanding of the concept of Well-Servicing Operations, Mechanism of Downhole Tools, and Echometer. To make use of my new knowl-

edge, I invented a sand and gas separator with many challenges. And this Downhole Tool became the very first effective and useful tool for sand and gas problem wells, which was successfully developed to solve the sand problem, one of the main issues of Mann Oil Field. I won the best Outstanding Performer Award for my invention of a new design sand and gas separator.

To conclude, let me share one of the mottos that I hold dearly in my heart, which is "QQTSE". The first Q stands for 'Quality' (in everything we do, quality is very important), the second Q represents 'Quantity' (increasing productivity is also a key factor in our operations), T is 'Time' (being able to complete a task on time is crucial), S means 'Safety' (safety is very important in all our operations. Our operation is considered a success only if there are no incidents/accidents) and E stands for 'Environment' (if our operations have a negative impact on the environment, the operation is not considered an achievement). I think a job must be in line with QQTSE to be considered a success. ■







### U Tin Oo

Crane Operator  
Field Operations Department

I have been with MPRL E&P Group of Companies for 20 years now. My career life began with Motor Transport Department at Myint & Associates Co., Ltd. in November 2000 when I had completed my study at Government Technical Institute in Maubin. I was transferred to Mann Field to work as a Field Technician in July 2006. I was promoted to Junior Engineer and was assigned to take the duties and responsibilities of Downhole Workshop independently in April 2010. After working for three years as a Junior Engineer, I became an Assistant Engineer in 2013, then assumed the position of Engineer in April 2014.

Downhole Workshop is one of the supporting teams in Mann Field Operations. Our duty is to maintain and repair not only the insert pumps and well-servicing equipment but also the pulling units' draw works system, hydraulic cylinders, and mast system. In pulling unit repair and maintenance, I encountered many challenges and overcame many difficulties when I took on the duties and responsibilities of Downhole Workshop since I had no background experience in this area. So, to fix this, I tried to learn things on my own and worked with MOGE staff to overcome difficulties.

To note, if we do not keep the pulling units in good running condition, we will not be able to perform operations within the given time frame and as a result, can affect the daily production. This is why the pulling unit repair and maintenance is one of the major aspects of maintaining a smooth production. To fulfill this requirement, we set up weekly and monthly preventive maintenance

I started my career with MPRL E&P Group of Companies 18 years ago. Before joining the company, I was not feeling confident to work as a Driver and was really thought this through but I made a smart decision. The sister company, Myint & Associates Co., Ltd. (M&A), definitely changed my life. In 2003, after landing a job at M&A, I became more confident and content with my life and got my self-esteem back. I relocated to Mann Field in 2004 and while there, I was given an unexpected opportunity to drive a 3-ton crane, which made me realize my dream was to become a Crane Operator. In 2011, after taking several courses on how to drive and control a 35-ton crane TADANO, I was promoted to Crane Operator and started working for Asia Drilling Pte Ltd. which is also another sister company. There, I had a chance to learn about oil drilling and production of the MDE-1 well from experts.

schedules to check and repair all pulling units. Due to the kind favor and guidance of Field Management, I was able to cope with and overcome all the challenges.

There were two difficult tasks during my ten-year career that I'd like to mention in detail, which are noteworthy. The first task was replacing the fabricated rivets at places where drum and brake flange attached bolts were damaged and it was impossible to replace them with original parts. On the other hand, the drum assembly was very expensive and it was not easy to get the same part in the market. As we all know, the main drum is one of the critical parts in the draw works system of the pulling unit for the lifting operation and it could lead to serious injury if the brake system of the drum fails. In 2013, the main drum of the P-70 Pulling Unit had been changed to a riveted type with the support of MOGE personnel to prevent any potential accident/problem. The main drum of the P-82 Pulling Unit was also transformed to a riveted type in the following year due to the same failures as P-70.

The next task was replacing the fabricated mast pad eyes of the P-69 Pulling Unit in 2017. It was our first attempt to replace pad eyes at Mann Field under the supervision of U Soe Than Naing, who was an Assistant HSE Manager at that time, along with the cooperation of welders from Asia Drilling Pte Ltd. It was not only the first operation for us but also a very risky one. After this experience, I have learned to independently replace pad eyes and kept doing it for the rest of the Cardwell Pull-

After three years at Asia Drilling Pte Ltd. I was re-assigned to MPRL E&P in 2014. At first, it was difficult for me to work at MPRL E&P because of my educational background. Nevertheless, I worked hard and tried my best to compensate for it by taking two Crane Operator training courses in December 2013 and June 2018 respectively. I am now qualified and proficient to carry out GD-2 Rig Move, Rig-Up Operations, Pumping Unit Relocation, Repair Operations, and Oil Tank Transfer Operations. Moreover, during the COVID-19 pandemic, I helped support the team and its operations at the site, and to return the favor, I worked in Mann Field for 154 days straight.

I will always be thankful to M&A for giving me such many opportunities for career growth. I look forward to devoting the rest of my career to MPRL E&P Group of Companies and I wish the company continued success, growth, and prosperity. ■



### U Myo Min Ko

Engineer  
Field Operations Department

ing Units with some help of welders from Asia Drilling Pte Ltd. and MOGE personnel.

The above two fabricating operations were great milestones for our Downhole Team during my tenure and I am pleased to have had the opportunity to learn more about these aspects of technical operations.

In conclusion, joining MPRL E&P has been a significant change in my life and I am very proud to be part of an organization that fosters my professional life and provides me with job security. I will continue to give my best to grow together with MPRL E&P. ■



### U Myo Chit Oo

Engineer  
Field Operations Department

My parents including my family live in Nan U Village, Minbu Township. My father's name is U Myint Shwe who has worked at MOGE's Drilling Department. Now, he is working at P-100 Work Over Rigs. I was born in Mann Field and grew up there. I finished Basic Education Middle School (Mei Bayt Kone) and went to No.1 Basic Education High School (Minbu). I graduated with a Bachelor's degree in Mechanical Power from Magway

Technology University in 2008 and I am currently working as an Engineer at MPRL E&P (Enhancement Project) in Mann Field. I joined MPRL E&P in June 2011 and my professional career has now reached a 10-year mark. My assigned duties not only include working for the Mechanical Workshop but also for Downhole Workshop, Pumping Units Maintenance, and Warehouse Tubing Inspector areas.

At the Mechanical Workshop, I conduct daily checkups for pulling units, monthly servicing of rigs and rolling stocks, weekly inspection of all GOCS formation water pumps and spots water injection pumps by following the Preventive Maintenance





nance (PM) schedule. As part of the Field Support Team, we always cooperate with our crews to efficiently repair machinery used in the field to avoid any malfunction or failure which results in operational delay time affecting production.

We also make sure that all spare parts and Ex-equipment are in good condition to avoid any delay during the repair. I always check the inventory and also, re-check on-hand material inventory after issuance for daily repair. My duties also involve issuing FRs for minimum stock when required to prevent a stock shortage. Our work schedule is usually a day shift but if there are problems during the night operation (for instance, some mechanical problems related to the engine, transmission, and other control systems), we would go to the job site and fix it.

Mechanical Field is extensive; I do daily self-studies and I always listen and process information from the experienced staff, read technical books and service manuals and sometimes surf the internet.

Safety is our priority and before starting any operation, we do Tool Box Talk, Standard Operating Procedures (SOPs), Job Safety Analysis (JSA/JHA), Risk Assessment, and other discussions with colleagues. Depending on the operation/work situation, if necessary, we would apply permit to work before starting any operations. Besides, we participate in the company's CSR activities as needed. The wastewater used in the workshop is recycled by zero discharge pits to prevent it from leaking, which has a minimal environmental impact. As a team, we adhere to the company's conduct policy while we work together to fulfill our duties in the field. ■

I finished Eleventh Grade in 2003 from No. (1) Basic Education High School in Minbu. I started working as a Casual Worker/Employee in the Tubular Inspection Section of MPRL E&P's Warehouse department on 1 January 2004 in Mann Field.

Working as a Casual Worker/Employee, I had some time to study and I ended up studying for Law at the University of Distance Education. In 2007, I got my bachelor's degree in Law.

While working in Tubular Inspection Section, I learned about cleaning and inspection, pressure testing, and the steam cleaning process in detail. I was assigned to work at the Return shop for receiving and cleaning materials that are returned from operational wells after usage. There I had a chance to learn more about drilling and production materials of field operations. It was a great opportunity for my career development as a

Casual Worker. Sometimes, there was an opportunity for me to help out at the warehouse to process documentation relating to materials issued and received records, transportation records, stock checking, etc.

After having worked as a Casual Worker for 11 years and 3 months, a great opportunity arrived where a job vacancy for the Well-site Storekeeper was announced. I went ahead and applied for this position. I went through a personal interview and was selected. I believe I got chosen because I had worked at the Warehouse as a Casual Worker for a long time. I will never forget that day!

I have been working as a full-time employee at MPRL E&P for 5 years now. I believe all my hard work and commitment definitely paid off. I wish the company continued success and would like to thank everyone for allowing me to be part of the MPRL E&P team! ■



**U Zaw Cho Latt**  
Warehouse Assistant  
Field Operations Department



**U Zaw Lin Oo**  
Engineer  
Field Operations Department

I was born in Mandalay and attended No. (14) Basic Education High School (Mandalay). I majored in Mechanical Power at the Government Technical Institute (Mandalay) and received a bachelor's degree in Physics from the University of Distance Education (Mandalay). I joined MPRL E&P on 28 May 2007. Before joining the company, I worked as Site Person in Charge at High-tech Steel Factory Construction where my responsibilities included handling inflammable and raw materials.

MPRL E&P is my second workplace and the work culture is different from the previous one. It has

changed my life, vision, focus, time management, and professional life. As an employee of MPRL E&P, I learned a lot about safety, teamwork, time management, work experiences, and other technical aspects. I joined MPRL E&P as a Field Technician and worked for the Mechanical Workshop. Currently, I am working there as an Engineer. My main assignment is in Mechanical Workshop but I have also worked in various field operations as a Supervisor of Pumping Unit Maintenance Team, Downhole Workshop, Tubular Inspection, and Warehouse. In the beginning, I tried very hard to understand the technical aspects of work and was lucky because of my seniors and trainers who very well-experienced and helpful. I learned many things from them and I look forward to expanding my skill set.

Mechanical Workshop is one of the main supporting teams for the Production Enhancement Operations. There are many duties and responsibilities as a Mechanical Engineer. They are maintaining rig equipment, vehicles, earthmovers, pumps, and other supporting equipment required for Mann Project operations in coordination with the MOGE mechanics. To ensure the safety, reliability, and efficiency of the equipment, we take good care of them following the Preventive Maintenance Plan (PMP) so that all operations are done safely and successfully.

Maintaining good relationships is very important among us. As a Mechanical Engineer, I lead the Maintenance Team and manage the repair service

and troubleshooting activities while providing technical advice for the team. Furthermore, I analyze and interpret data, write maintenance reports and prepare documentation for the Team Leader. As a Mechanical Engineer, I am responsible for identifying and assisting procurement of parts and equipment. I also actively participate in company's CSR initiatives, and consistently follow the health and safety rules set forth by the company. I also take part in company donations and traditional festivals held by MOGE personnel.

Our company has strong rules and regulations, healthcare and safety policies, and standard working procedures. The company strictly abides by the Labor Law, which protects both employees and employer. I am proud of being an employee working for a transparent Myanmar company.

In conclusion, I value the quotes of people I truly admire. Our CEO is one of them. What he said is true and inspirational: "Our most important and invaluable resource is our people." Another message was during the Team Building Retreat, held in Ngwe Saung in February 2020, where the CEO stated, "Never Stop Exploring and Be Fearless", a quote also printed on the shirts distributed to all employees. What I learned from him was to never stop speaking up for what is right and with no fear. I will continue to try my best at work and I look forward to growing with the company. ■





### U Aung Kyaw Soe

Crane Operator

Pumping Unit Maintenance Team

I started my job as a Driver on March 14, 2003, at Myint & Associates Co., Ltd. which is under MPRL E&P Group of Companies. Within a few weeks, I became a Crane Truck Driver in Mann Field where I was in charge of operating a crane truck and worked with the Pumping Unit Maintenance Team. Since April 2011, I have been working as a Crane Operator at Asia Drilling Pte Ltd. where I have managed to operate 35-Ton and 55-Ton cranes. I was then transferred to MPRL E&P Pte Ltd. on 1 April 2004 as a Crane Operator. During

my tenure at MPRL E&P Group of Companies, I have received a 15-year Group of Companies' Service Award in 2018 and a 5-year Service Award in 2019.

To improve my skills and excel in occupational safety and performance, I had attended and completed the Rigging, Slings and Banksman Training as well as Crane Operator course instructed by DNV GL (Thailand) Co., Ltd. in June 2018 and had received certificates. Special thanks to our senior management who always take good care of us and value our hard work and performance. Without their help and support, I would have never gotten promoted to Crane Operator, it is all because of their genuine interest in fostering their employees and creating opportunities for them.

To ensure occupational safety at work, I regularly carry out crane inspection with a checklist for equipment like lifting gear, lifting slings, webbing slings, and lifting chains. Furthermore, I participate in a Pre-Job Safety Meeting every morning with the Workshop Team. Before starting an operation, as a team, we conduct a Tool Box Talk Meeting where we discuss potential hazards as well as precautionary measures reminding ourselves to follow the Standard Operating Procedures (SOPs) systematically. Our weekly safety trainings have been instrumental in keeping employees safe and informed. We strictly adhere to the commitments of the Environmental Compliance Certificate

(ECC) so that our businesses do not negatively impact the environment, which includes proper waste disposal and knowledge sharing with our colleagues and community members about the environmental damage caused by unregulated dumping. I am fortunate to be able to work with the CSR Team, individually or collectively, in the environmental aspects of our operations.

I enjoy what I do and I believe that it is important to stay healthy, mentally and physically. For me, I do like to work out, I often go for a long walk or run and train at the camp gym. During my days off, I try to cycle in the morning to maintain a healthy and fit lifestyle.

There are three members in my family, including me. I have a 14-year-old son, who is now in Grade 9. My wife is a graduate of the University of Magway with a Bachelor's degree in Economics. She now runs a clothing store in Magway Myoma Market. I have been with the MPRL E&P Group of Companies for 18 years now. Throughout my career, I have learned so much from work and my skills and knowledge have expanded tremendously and I have come to realize that my lifestyle has improved, both at work and home. I am always looking forward to learning from my superiors, life mentors, and colleagues and I wish to continue working at MPRL E&P Group of Companies for many years. ■







Moe Thuzar Hlaing

**Myint & Associates Co., Ltd. (M&A)** was established in 1989 and it is the first privately-owned Myanmar company to conduct business as a service contractor in the upstream energy sector. Marking its 32nd year of operation this year, M&A has been a leader in providing a suite of services specifically tailored to the international energy companies along with their main contractors operating in Myanmar.

M&A has been actively involved in 90% of Myanmar's offshore projects by providing quality services for all our clients so that they can focus on their field operations. The cornerstone of our success as a leading service provider is by treating all service requests and requirements of each business partner as our own and dedicating our efforts to make sure that our input and support is an integral part of the operational success of our clients.

Since early 2020, as the global crisis was beginning to unfold due to COVID-19, and like our peers in the service industry, we have been faced with unforeseen challenges caused by the pandemic. Despite a few struggles and disruptions, M&A has been relentlessly providing services so that our clients can continue their operations with ease. As proof, our Operations & Logistics Department and Catering & Beverages Department have played a key role in ensuring the continued delivery of services to all clients namely POSCO Daewoo, PTTEP, and PCML, including their offshore and onshore projects during these challenging times. Besides, under the guidance of M&A's Senior Management, we have been keeping track of the upcoming drilling activities and most importantly, effectively prioritizing issuance of project tenders. Because of our diligence and perseverance, we are proud to say that we have secured service contracts with clients like Ocean Monarch, the drilling contractor for POSCO Shwe Phase II and Transocean DDKG-2, the drilling contractor for blocks AD-1, AD-8, and A-7 of Woodside, Shell, and MPEP amid the pandemic.



Offshore Catering Services for Diamond Drilling New Year Event

To further showcase our team's hard work, our very own 12 crew members from the Catering & Beverages Department successfully and safely ended their extended stay on offshore platforms in Malaysia due to the coronavirus outbreaks after performing their duties and responsibilities. Their impeccable performance has resulted in recognition from our clients who presented our Executive Management with official appreciation letters as a token of appreciation for their services. This is truly proof of the resilience and dedication of our M&A team who have successfully fulfilled their duties during unprecedented times. In this competitive business world, employees are major assets of any organization because they play a crucial role in warranting customer satisfaction and overcoming challenges together, both as a team and an organization.

The second team that deserves a spotlight is our Operations & Logistics Department for simultaneously providing their services in Logistics, Custom Clearance and Offshore Drilling Crew Supply to Transocean DDKG-2 Drillship, Woodside's Drilling Project, Ocean Monarch Rig, and POSCO Daewoo Drilling Project amidst the travel restrictions and lockdowns. The Department has tirelessly worked to ensure the completion of material handling and transportation services from Thilawa Port to Thaketa Supply Base for Woodside with zero accident or error with the help and collaboration of M&A's Health, Safety and Environment Department. We also assisted in the hiring of our former

# Taking Service Excellence ————— to a New Level amid the Pandemic



Appreciation Letter for M&amp;A Catering Crews (Diamond Drilling Project) &amp; Appreciation Letter from PTTEP for M&amp;A Catering Services for the Year 2020

local technicians for Manpower supply projects for both onshore and offshore so they had the opportunity to work side by side with the international staff, which essentially encouraged local talents to enhance their skills.

Here, we like to proudly present our M&A Team consisting of staff from the Catering Department and Manpower crew who are experts in their respective fields and who have all been involved in the international Manpower supply project. They have approximately seven years of professional experience, dating December 2007 to August 2017, in offshore fields in Korea, Singapore, Malaysia, and Russia, which were all operated by Korea National Oil Corporation (KNOC).

Most of the crew members on the drilling rigs are certified Medics, Radio Operators, Safety Officers, Drillers, Roustabouts, Roughnecks, Derrick hands, Mechanics, Motormen and Technicians, all of whom are qualified and skilled employees from M&A who have also successfully completed many overseas drilling projects without any issues. This has been a source of great pride for M&A's Executive Management as we document these Manpower Project milestones as part of our success stories.

To conclude, the pandemic has caused many disruptions in the planning and implementation of our usual business operations and also, challenges our own safety and wellbeing. Although the energy sector has been affected by this unforeseen outbreak, we are confident that the sector will remain strategic and resilient as we move forward and fight the pandemic together. Energy is an essential part of our daily lives and by overcoming these challenges together, we can continue and create a sustainable business model for all our business partners. ■



Material Handling Services, Pre-job Tools Box Meeting at TMIT Port



Material Handling Services at MOGE Thakata OSB

Material Handling Services from HLV to Local LCT



Transocean DDKG-2 Drillship and Associated Vessels Inbound Clearance Services





## Trash Hero Gaw Yan Gyi: Inspiring Long-Term Behavior Change in the Community



Pyae Pyae Phyoe

Every day, we are generating trash, and the accumulation of abandoned trash has been detrimental to our environment. Imagine the abandoned trash piles you see on the street. Imagine every street has several trash piles, and imagine this scenario in every city, every country. It is clearly a global concern and as responsible citizens, we must work together to bring awareness to our communities and contribute to the Trash Hero movement.

“While solving the global waste problem may be complex, knowing what to do about the garbage that is currently littered on our beaches and in our communities is relatively simple: pick it up”, a response from a Trash Hero. There is a lot that every citizen can do to save the environment by reducing his or her own carbon footprint. As a responsible citizen, we cannot just solely focus on conducting random cleanups, we must come together and work as a team to motivate each other while we participate in various environmental initiatives. This way, we gain a profound understanding of the consequences of being careless about throwing trash as we bring communities together for one mission that benefits all.

Wondering what Trash Hero is all about? It is a global volunteer movement, led, supported, and governed by Trash Hero World. It is a non-profit organization founded in 2013 with a wide network of 171 chapters (and growing), from Thailand, Indonesia to Poland, Germany, Australia and the United States of America. According to Trash Hero World, the mission is to bring communities together to clean and reduce waste through action and awareness, education, inspiration, and sustainable projects. There are currently 15 active chapters under Trash Hero Myanmar, which facilitates program coordination and represents local voices, both on the national and global levels. Like its fellow organizations worldwide, Trash Hero Myanmar fosters sustainable, community-based projects where focus is on removing existing waste and reducing future waste by inspiring long-term behavior change.



Social responsibility is a duty every person has to perform as well as every business organization to maintain a balance between the ecosystems and the economy. Being a socially responsible business, M&AOSB has always placed corporate social responsibility (CSR) in the forefront of our values and community efforts. To expand its contributions towards environmental initiatives, M&AOSB CSR Team reached out to Trash Hero Myanmar and worked together to open a new chapter – Trash Hero Gaw Yan Gyi, which covers Nantharpu Village Tract, Kyway Chaing Village Tract, and Nga Yoke Kaung Town. The chapter is formed with representatives from the community, M&AOSB CSR Team and Trash Hero Myanmar. Since its inception in December 2020, the chapter has been active in providing its own environmental awareness programs and workshops relating to sustainable waste management.

M&AOSB initiated the Trash Hero Gaw Yan Gyi chapter based on the results of the community needs assessment, the data provided by the local community with their concerns and needs. Community waste management was one of the major



concerns raised by all three communities around the area where M&AOSB project operates. M&AOSB CSR Team was eager to conduct community-led waste management programs since the get-go, and since its establishment, M&AOSB CSR Team has been working together with Trash Hero Myanmar to establish innovative, effective and sustainable ways to address the environmental issues in the community. The program has been successful in empowering and educating the community to be a part of the nationwide movement to tackle the waste problem collectively and proactively. After all, “Anyone can be a Trash Hero! A Trash Hero wastes as little as possible, reuses as much as possible, and works to preserve and improve the spaces they are in, wherever they may be”, a motto set by the Trash Hero World.

There are two notable Trash Heroes from Gaw Yan Gyi chapter who have voluntarily decided to become the lead organizers. Ko Moe Wanna Hein and Ko Kyi Lwin Thaung are young and passionate residents of Nantharpu Village Tract, who have been actively sharing their personal experiences about the community-led waste management initiatives. “Before







all the Trash Hero cleanup activities began, we first discovered about this movement through Saw Ba Lin Kyaw, who is the CSR Field Coordinator of M&AOSB. We feel lucky and blessed to be working together with a well-known organization like this and we are grateful to have M&AOSB's help in keeping our community clean," said Ko Moe Wanna Hein. He further described that the waste cleanup events are conducted on Sunday mornings, twice a month, where most of the community heroes consist of kids under the age of 16. Ko Moe Wanna Hein was surprised to find out that the participation of these kids isn't only due to their own willingness to contribute to the community, it is also reinforced by their parents' encouragement. Further, the adults have been proactively providing necessities for the cleanups along with breakfast for the heroes. "There were some efforts initiated in our community before, however, they weren't successful like the Trash Hero events, which have gained so much attention and participation from the communities and I think it is because the program is led by a group of like-minded individuals. Not to say that the bright yellow Trash Hero T-shirts capture everyone's attention of the program," said Ko Moe Wanna Hein, who feels appreciative of the community collaboration.

Another community leader, Ko Kyi Lwin Thaung, has shared his personal reason for actively participating in the waste management program in Gaw Yan Gyi. He said, "Our village has no landfill site or municipal cleaning service. Historically, trash and other waste were burned or hidden out of sight. In early 2021, 'trash bag program' was first initiated to reduce plastic waste and pollution in

our village." Ko Kyi Lwin Thaung then pointed out that one of his friends from Ngapudaw Township introduced empty fertilizer bags to the waste management program where these bags are sewn using round bamboos and are hung at the front of every house in the village, making it convenient for everyone to properly throw their trash away. Ko Kyi Lwin Thaung is hopeful that the community will continue implementing this system so that it will eventually become part of their daily lifestyle. "I am very happy with the Trash Hero movement and our community's participation in the cleanups. I will personally make sure to keep Gaw Yan Gyi neat and tidy so that it turns into one of the local attractive places for the tourists."

Unfortunately, the COVID-19 pandemic has disrupted the Gaw Yan Gyi Chapter's aim to launch major cleanup events in the community. The chapter strictly adheres to WHO guidelines including those high-level protocols issued by the Trash Hero World. Small group cleanup events are now conducted in compliance with COVID-19 regulations while following proper health and safety measures. Trash Hero Gaw Yan Gyi kicked off its first small cleanup event at Zin Yaw Chung, Ah Lel Kone and Seik Kan Wards of Nanttharpu Village Tract on 20<sup>th</sup> December, 2020. As of 14<sup>th</sup> February 2021, the chapter has organized five cleanups and collected a total of 965 kg of trash (193 bags). It has also mobilized a total of 193 heroes including 70 adults and 123 kids, making it an eye-opening movement for the Nanttharpu community. When the COVID-19 outbreak ends, it is hoped the Gaw Yan Gyi chapter will be able to conduct an inclusive cleanup movement with the local residents, businesses, government agencies, schools, tourists and other stakeholders to take positive and proactive actions towards managing and minimizing waste.

One of the ways Trash Hero Myanmar bring awareness to the community is by handing out the famous yellow T-shirts to all the participants who voluntarily join the cleanups. In addition to the local community contributions, in Gaw Yan Gyi, M&AOSB CSR Team handed out protective masks, gloves, trash bags, and provided transportation for all cleanups, as well as food and drinking water for the volunteers. M&AOSB CSR Team also helped out with carrying out the loaded trash bags by offering other transportation services using trucks and



Ko Kyi Lwin Thaung  
Nanttharpu Village Tract



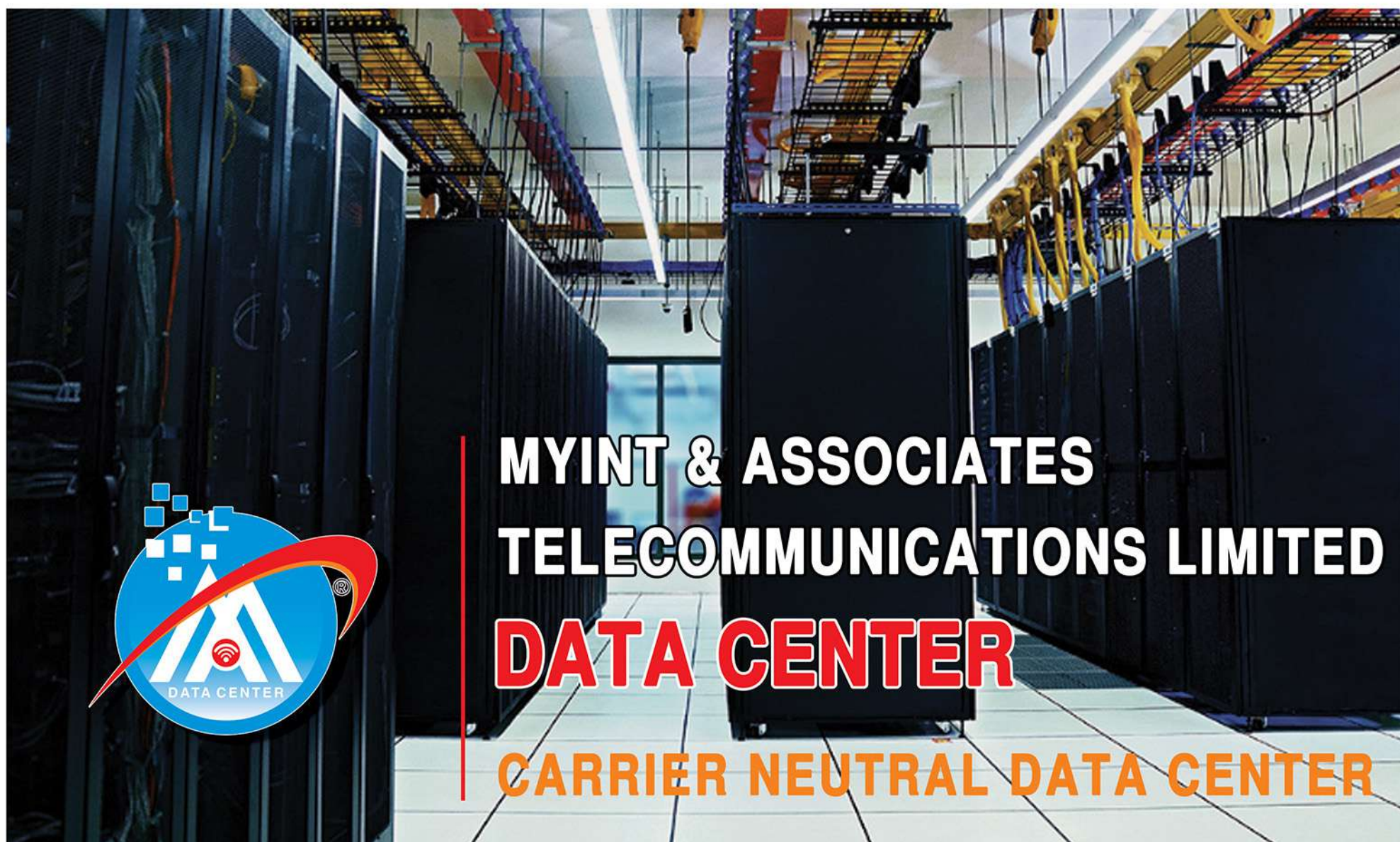
Ko Moe Wanna Hein  
Nanttharpu Village Tract

boats. Collected trash were then disposed at the landfill site of Nga Yoke Kaung, a taxed town, where weekly municipal cleaning service and waste collection system are conducted. Currently, the Gaw Yan Gyi chapter is conducting bi-monthly cleanups around the public areas of Nanttharpu Village Tract while offering waste management awareness sessions to the young volunteers.

M&AOSB CSR Program is happy with its new success at Gaw Yan Gyi and looks forward to implementing a strategic initiative for an educational outreach program to raise awareness for waste minimization and influence attitude and behavior changes within the community. M&AOSB believes in the Trash Hero motto - "We Clean. We Educate. We Change." and therefore, as a responsible company, we are dedicated to accelerating progress towards achieving a sustainable society where waste management and reduction are of primary focus within the community. ■







#### Myint & Associates Telecommunications Team

#### What Are the Services Offered by a Data Center Colocation Facility?

A data center, also known as, colocation provider or “colo”, is a large physical facility that offers bandwidth, power, cooling, and security for customers to host hardware and servers. The space or capacity at the facility is either leased by the room, cage, rack, or cabinet.

Based on the specific requirements or infrastructure, the businesses (customers) opt-out to “co-locate” by renting space in a colocation data center because it provides more reliability, greater protection from power outages, higher levels of bandwidth, and physical protection.

#### Types of Colocation Facilities

A data center colocation facility is generally classified as one of two types: retail or wholesale. A third type has recently become common, hybrid cloud-based colocation facilities.

#### Retail Colocation

A customer leases space within a data center, usually a rack, space within a rack, or a caged-off area.

#### Wholesale Colocation

A customer leases a fully-built data center space, generally at a cheaper rate than retail vendors, but with lower power and space requirements.

#### Hybrid Cloud-Based Colocation

Hybrid cloud-based colocation is a mix of in-house and outsourced data center services.

#### Myint & Associates Co., Ltd. (M&A) Data Center Colocation Services

When data availability is important and downtime is not an option for the core business, the M&A Data Center is the perfect place to collocate and host the business’ critical servers and related hardware. The data center offers a variety of different space options for a full range of client colocation services needs together with facilities for power, air conditioning, physical security as well as remote hand service. There are three types of colocation services in the M&A Data Center: rack, open space, and cage unit space.

#### Rack Colocation Service

Minimum 4U of rack space is available for colocation space up to full rack or numbers of racks required by the organization. Half cabinets with approximately 21U are also available. M&A Data Center offers all the customers a full 47U cabinets with unique keys and 600mm x 1000mm rack size for colocation in its data center facilities.

#### Open Space Colocation

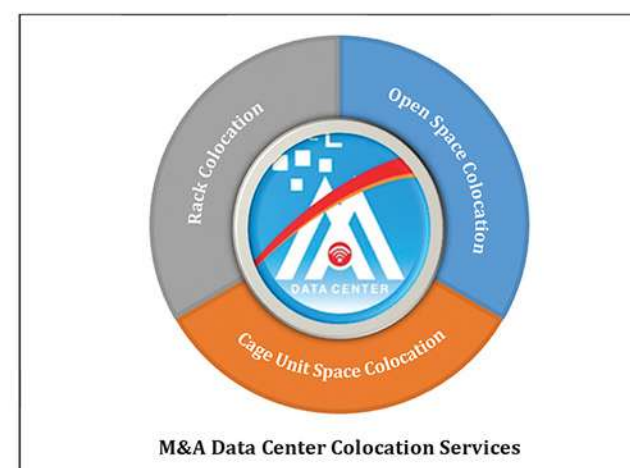
For open space colocation, the M&A Data Center offers the space for own rack installation by customers starting from 600mm x 1000mm. The data center provides the same facilities and security procedures as the rack space colocation.

#### Cage Unit Space Colocation

For customers who require a more secure colocation within the data center, the M&A Data Center offers cage unit colocation with a separately partitioned and lockable floor space. The data center provides cage unit installation service for customers with an additional layer of security door and access card system. ■

 Government	 Oil & Gas	 Telecommunications	 ISP & Cable Provider	 Financial Services	 Stock
 Media & Advertising	 Education	 Gaming & CDN	 Trading	 Retail	 Health Care

Industries Currently Renting at M&A Data Center





# Does Striving for Carbon Neutrality

## Make Business Sense for a Small Petroleum Company?

Old Geezer Doc Rock

### 1. Introduction

Excessive emissions by human activities of the **greenhouse gas** carbon dioxide (also CO<sub>2</sub>, improperly designated as "carbon" in many media concerned with the matter) is recognised by most people and learned organisations as the main contributor to rapid climate change. Petroleum companies are now blamed by much of the civil society for sourcing these excessive emissions.

The ultimate mitigation to climate change is for mankind's activities to become globally **carbon neutral**. **Carbon neutrality** is the situation whereby human activities produce as much CO<sub>2</sub> into as they remove from the environment. In other words, carbon neutrality is when carbon footprint is equal to zero.

The answer to the question in title is in a nutshell: "Yes, striving for carbon neutrality definitely makes business sense". Just like health, safety and environment (HSE), just like corporate social responsibility (CSR) make business sense. It is a matter of social licence, and also of business resilience.

**So how does an organisation – from personal lifestyle to entire countries and corporations - strive and achieve carbon neutrality?**

### 2. The carbon cycle and some figures

First let's remind us of the carbon cycle. The diagram of figure 1 shows the movement of carbon between land, atmosphere, soil and oceans in gigatons (thousands of millions, or billions of tons) of carbon per year.

Yellow numbers are natural circulations, red are human contributions in billions - or thousands of thousands of thousands - of tons ("gigatons") of carbon per year. White numbers indicate stored carbon not participating to the cycle. Human activities emit 9 gigatons, 3 gigatons of which are absorbed by photosynthesis on land (the carbon intake by vegetation) and 2 are absorbed by air to sea exchange at ocean level. The excess 4 gigatons per year (about one viss per inhabitant of the planet per day) is what causes the greenhouse effect. Carbon neutrality addresses the issue of how to absorb this excess 4 gigatons.

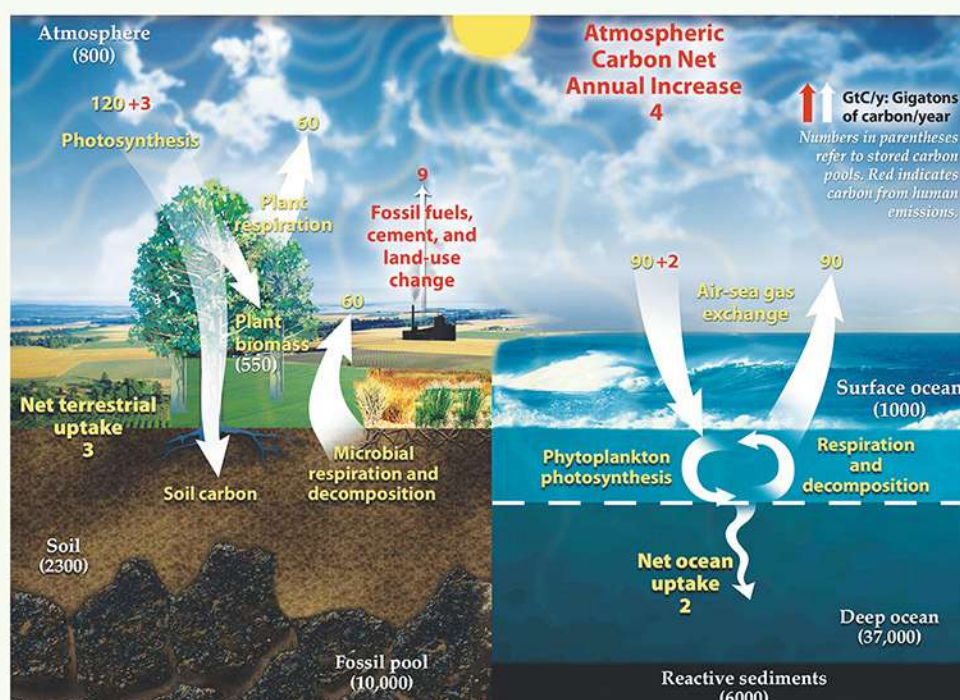


Fig. 1: Reminder of the carbon cycle; units are gigatons (billions of tons, or thousands of thousands of thousands of tons) per year

Carbon emission is measured in weight of carbon dioxide or CO<sub>2</sub>. Let's visualize what is one ton of carbon dioxide (as mentioned above, often improperly oversimplified as "carbon"):

- A ton of pure CO<sub>2</sub> occupies a volume of 556 cubic meters (m<sup>3</sup>), the volume of a cube of about 27 feet of side, not far from the volume of the Vantage Tower's 6th floor main meeting room;
- At the present level of 390 cubic meters (m<sup>3</sup>) of CO<sub>2</sub> per million m<sup>3</sup> of air that we breathe, one ton of CO<sub>2</sub> is held in 1.43 million m<sup>3</sup> of air, about 20 times the volume of the Vantage Tower (excluding the parking building).

To visualize consumption, travelling by Toyota Alphard from Yangon to Nay Pyi Taw and back produces some 210 kg of CO<sub>2</sub> per trip, i.e. 35 kg per person for six people traveling together. Of this 35 kg of CO<sub>2</sub> per person produced during this trip, some 15 kg will contribute to the greenhouse effect. You might object that does not make sense, as the round trip only uses some 50 litres of fuel. The calculation includes the carbon footprint to fabricate the car from extracting the ores and raw material of all its part to deliver it to the market. Flying to Nay Pyi Taw and back produces by contrast 80 kgs of CO<sub>2</sub> per person (reference <https://www.carbonfootprint.com/calculator.aspx> ).

Companies and organizations requiring practical tools to measure their carbon footprint use the ISO 14000 family of standards for environment management.

### 3. Carbon footprint: international law and money

Let's have a look on how the mitigation of carbon footprint is handled by law and big money.

#### The international law

Most organizations and countries concerned with carbon footprint and neutrality refers to two United Nations' framework agreements: the Kyoto Protocol and the Paris Agreement, both under the umbrella of the UN Framework Convention on Climate Change (UNFCCC), a UN treaty signed in 1992 seeking to reduce atmospheric concentrations of greenhouse gases with the aim of preventing undesired impacts of mankind on the earth's climate system.

The Kyoto Protocol is an international treaty that commits state parties to reduce greenhouse gas emissions. The protocol was established in 1997, effective in 2005, and had committed the signatories to limit the emitted greenhouse gases, chiefly CO<sub>2</sub>, to predefined binding targets of greenhouse gas reductions in a series of four-year periods starting in 2008; 36 countries participated in this first period. A second period is running until end 2020 with 37 countries with binding targets. The treaty called for national legal frameworks on implementation, a common accounting-reporting-review system, a UN adaptation fund for climate change to minimize impacts of developing countries, and a UN compliance committee.

The Kyoto Protocol established three flexibility mechanisms to be used by governments to meet their commitments in limiting greenhouse gas:

- the International Emissions Trading, allowing countries to trade their emissions,



- the Clean Development Mechanism, in which projects to reduce greenhouse gas generate Certified Emission Reduction units (or CER), traded in Emissions Trading Schemes (ETS), and
- the Joint Implementation (JI), whereby a signatory country can invest in a project to reduce greenhouse gas emissions in another signatory country. In this way, countries can lower the costs of complying with their Kyoto targets by investing in projects where reducing emissions may be cheaper, while gaining the same resulting CER's as in their own territory more expensive to operate.

The Paris Agreement, adopted in 2015, aims at limiting the temperature increase to 1.5 °C above pre-industrial levels, loosely defined as the average temperature between 1850 and 1900, by 2050. This would be achieved by:

- fostering climate resilience, i.e. adaptation to the adverse impacts of climate change, and minimize greenhouse gas emissions, but without threatening food security;
- making finance flows consistent with a pathway towards low greenhouse gas emissions and climate-resilient development.

By contrast with the binding Kyoto Protocol, the Paris Agreement relies on each country to determine, plan, and regularly report on the contribution to mitigate global warming. No mechanism forces a country to set a specific emissions target – the Intended Nationally Determined Contribution (INDC) – by a specific date, but each target should go beyond previously set targets.

The Paris Agreement also established a successor to the Kyoto Protocol's Clean Development Mechanism, informally known as Sustainable Development Mechanism, to allow signatories to collaboratively pursue emissions reductions for their INDC.

### Carbon pricing

The most efficient mitigation against climate change is carbon pricing under the form of carbon tax and/or permits to emit delivered by governments, known as emissions trading schemes. Carbon pricing, first implemented as a carbon tax in Poland and Finland in 1990, now covers 22% of emitted greenhouse gases emitted in the world, and raised US\$ 45 billion in revenues in 2019 alone (see fig. 2 for where and how carbon pricing is implemented).

### Where does Myanmar stand in the road to carbon neutrality?

Myanmar is an early signatory of both Kyoto Protocol and Paris Agreement. The country emits 0.01 percent (1 in ten thousand) of global greenhouse gas vs hosting 0.07 percent of the world population, i.e. 7 in ten thousand people in the world are Myanmar. The country is also a net carbon remover thanks to its extensive and precious forest cover. Yet Myanmar is one of the most exposed countries in the world to climate change, especially in the central arid zone evermore exposed to droughts, and in the Ayeyarwady Delta with lowlands exposed to sea level rise, both areas hosting together 70% of its population. The Nargis cyclone in 2008 is still haunting many memories. Myanmar has designed an ambitious Sustainable Development Plan 2018-2030 committing the country to reforestation, increasing resilience of coastal communities and mangroves, and implementing 30% of new electrification powered by renewable energy. More on Myanmar's climate commitment by following

<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Myanmar%20First/Myanmar%27s%20INDC.pdf>

### 4. MPRL E&P's efforts towards carbon neutrality

To be considered carbon neutral, an organization must reduce its carbon footprint to zero. Direct emissions include all pollution from operations and support, such as company owned vehicles and any other source that is directly controlled by the owner. Indirect emissions include all emissions that result from the use or purchase of a product, such as the electricity used in field and office.

Carbon neutrality is simply compensating operations emitting carbon dioxide (CO<sub>2</sub>) with operations and actions retaining and/or removing carbon. At MPRL E&P's level of a family business, three main options can be, and are eventually silently being, concurrently driven:

- improving the energy efficiency of our assets, bottom-up by ideas from our operations teams, this is part of resilience; a number of initiatives by MPRL E&P's field

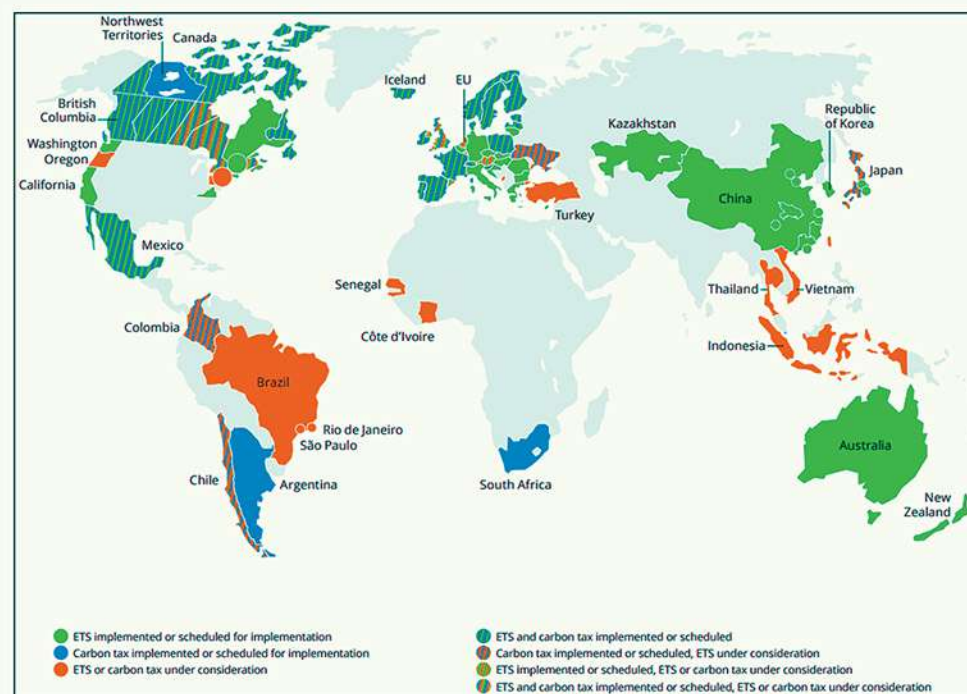


Fig. 2: Who pays a carbon tax? From "State and Trends of Carbon Pricing 2020", by the World Bank Group; ETS stands for Emissions Trading Scheme

engineers have earned them appreciations from the corporate management, such as wasting less energy in producing more oil, therefore reducing the carbon footprint of our operations!



Fig. 3: An example of MPRL E&P's ingenuity to save power and money in its Mann Field operations; U Aw Zar proudly standing next to his newly designed and locally engineered "mud anchor", entirely made of recycled material from the Mann Field operations; this mud anchor in the bottom of the oil producing wells is designed to increase the efficiency of our nodding donkeys by efficiently separating gas and sand from oil out of the sands reservoir; courtesy of DTXM Sayar Thu Nyo

2. designing and developing the most energy efficient new projects, such as in drilling and completing wells,

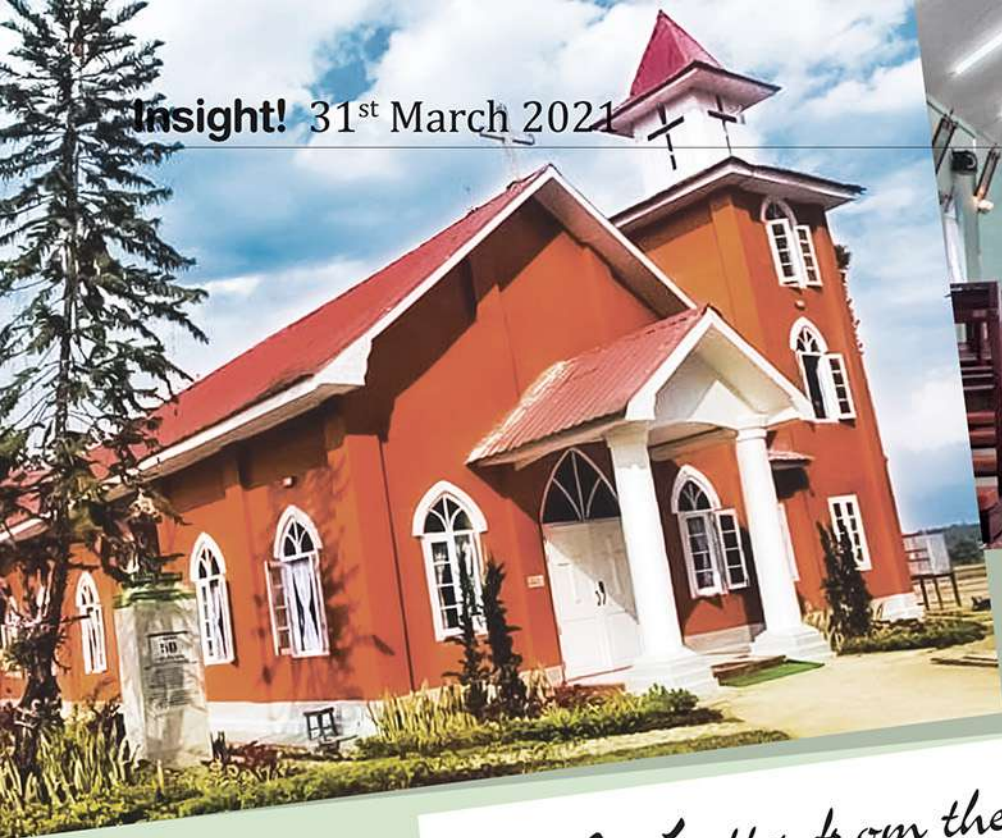
and implementing new techniques with energy efficiency in mind. For instance, the Block A-6 Development Project is designed along minimizing carbon footprint. Measures include the installation of waste heat recovery units, which remove the need for boilers or electrical heater, saving up to 7,700 tons of CO<sub>2</sub> per year. More design equipment efficiency improvements are under study, including optimisation of logistics, or alternative compression scenarios (e.g. using power from shore produced by a solar farm).

3. investing in offsetting carbon emissions, such as in sponsoring or even managing forestry or agricultural projects or mangrove reforestation along low littorals threatened by storms or in a solar farm to produce electricity from solar panels. MPRL E&P's CSR activities and environmental initiatives on in Mann Field appear to already carry out some of these offsetting carbon activities by supporting agricultural projects in the field, such as our tomato gardens or sesame production by the communities living in the field, and composting biodegradable waste for re-use in cultivation. Carbon offsetting however comes with all kind of red tape to be officially recognised, including:

- Vintage: the year in which the carbon emissions reduction takes place,
- Source: the project or technology used in offsetting the carbon emissions, such as land use, or use of methane, biomass, renewable energy and/or industrial energy efficiency and
- Certification regime: the systems and procedures that are used to certify and register carbon offsets, such as for the voluntary market, the Verified Carbon Standard and other similar schemes.

Voluntary carbon offset has become a big business, traded in stock exchanges, with the same speculative spirit of buying cheap in the hope of selling expensive. Many companies with low carbon footprint now claim to be carbon neutral, having bought Certified Emission Reductions shares in "green" projects around the world.





## A Letter from the Heart

"It all started one day when Ko Phone Kyaw quizzed me if I had any idea about where we would make our wedding vows. I knew both of us actually considered the matter a very important one. My mind flickered for a moment. I grew up in the countryside and I am a Kachin girl by ethnicity. I always wished to make our marriage vows before God in a small countryside church, surrounded by friends and relatives, with mountains and forests overlooking us in the backdrop. The ideal pick turned out to be Putao, a little town in the northernmost part of our country, known for its cold weather and snowcapped mountains, replete with rice fields and Christian churches.

It was such an exciting experience to explore the town and locate St. Anthony Parish Church, a local Catholic Church located on top of a hill, where we were warmly welcomed to be their guests. This could have been the end of our journey, mission completed, but at a closer look, we observed the church was somewhat in a condition that needed careful renovation. Some of its wooden structures inside were in serious decay and outside the church the land was rough and uneven which needed to be levelled. I understood the church was erected a long time ago by a pastor with limited donations which he gathered. So now was a good time to give it a fresh look, we thought.

When I mentioned about our trip and what we were thinking to my mother-in-law, she immediately said that it was an excellent idea and that she would be willing to provide a starting fund. We couldn't be happier!

Over the course of ensuing seven months, the renovation works were meticulously carried out by no other than Myint & Associates Construction Ltd., a company founded by my father-in-law. They did a wonderful job. My heartfelt thanks to all involved. We also donated a two-storey building for the young girls staying at the Boarding School located within the church compound so as to ensure that they can have more secure and safe space to live and study together.

Upon receiving photographs of the church with its latest look and appreciation letters from the Church officials, my parents-in-law expressed great joy, and for my mother-in-law it was meant to be her last charity project which she whole-heartedly saw through to the successful end.

For myself, I was pleasingly amazed at her noble generosity as well as how service was universal to my mother-in-law whom I adoringly called 'Mommy' like Ko Phone Kyaw did. I was very grateful to have received such blessings and boundless love from my parents-in-law and brother-in-law who are Buddhists. Most importantly, I had an opportunity for self-reflection and thoughts about how to emulate and try for myself to become someone with a big heart one day."

Awn Seng

