

# Industrial Visit NEWSLETTER

by Petronas and Huawei

17th November 2023, Friday

## Summary

During our latest industrial visit, we went to two remarkable companies which were Petronas and Huawei. Both are located in Kuala Lumpur. According to PETRONAS official web page, the company is an organisation that controls their business actions, develops rules, and plots their future. We heard presentations from two amazing presenters on the company, opportunities for careers, infrastructure services, software engineering, and how technology is employed.

The Huawei showroom was our following destination. The display included many advanced technologies, including the data center's storage system, the smartLi UPS, which provides continuous power, and other products related to 5G infrastructure and the Internet of Things. The tour of the Huawei showroom provided an overview of the company's innovative approaches as well as potential industry effect.

## Technologies in Huawei

The majority of its technologies were developed with features of power integration and maintenance. One example of their product is SmartLi Uninterruptible Power Supplies (UPS). SmartLi UPS is used to generate batteries in case the power center has no energy. The SmartLi UPS Solution provides a dependable power source with a longer lifespan and also requires less maintenance. Furthermore, we were also introduced to Huawei's fusion dc which has various types including Power Module, IEC Module and iRobot Module. Some of their features are also to generate power and have an addition of cooling features. In addition, the data centre's storage system is one of Huawei's advanced technologies as well. They provide high performance and reliability service needs met by the system, which also allows high-density snapshots.



## Technologies in Petronas with Exxonmobil

Petronas has signed a contract with ExxonMobil to pursue Carbon Capture and Storage (CCS) projects in Malaysia. We heard a speech regarding computer infrastructure and software from Mr. Ninderjit and Mr. Roman of Exxonmobil. Petronas is also aiming for a Net Zero Carbon Emissions by 2050.

For now, they have a 5G technology which can reduce the usage of carbon.

"Our purpose is to be a progressive energy and solutions partner enriching lives for a sustainable future." — PETRONAS.

They are in the process of digitalisation all of their technologies

and transferring data into cloud as well as the advancement of their process equipment. It was embedded in the overall plant design of Pengerang Integrated Complex (PIC). Besides, they have Information Technology Service Management to manage their storage, management and cloud.



DAYANG FARAH FARZANA BINTI ABANG IDHAM  
FARRA NURZAHIN BINTI ZAHARIL ANUAR  
HARINI A/P SANGARAN  
SYARIFAH DANIA BINTI SYED ABU BAKAR

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A23CS0079  
A23CS0081  
A23CS0183



## Issues discussed by Petronas

As mentioned previously, Petronas is on a process where they are transferring their data into cloud. Petronas decision to move onto cloud computing is a game-changer for their work efficiency as they are one of the global tech company in energy sector. Although Petronas hasn't completely transferred their data onto cloud yet, there has already been an attempt to breach their datacenter according to Mr. Ninderjit Singh, one of the staffs of Petronas. He also mentioned that Petronas hasn't fully recovered from that breach but have attained most of the data back.

## Issues discussed by Huawei

With all enterprises being digitalized, it is important that enterprises have proper storage systems to manage their data so that they can monitor on their products and services and also work efficiently at the same time. Not only that, digitalizing businesses has allowed enterprises to expand globally. Therefore, Huawei presents OceanStor Dorado 18000 which is their highest-end all-flash storage system which allows a maximum cache of 32 terabytes!

## Reflection

Our visit to Petronas and Huawei had been an enlightening and an eye-opening experience as we were able to receive valuable insights upon ICT from both companies. The visit to Petronas Digital has thought us that Petronas has long been laying the groundwork for the ongoing digital revolution by investing in fundamental building blocks for digital growth, such as Internet Of Things (IoT), connectivity, cloud, security, process automation and analytics. We learned that even in an oil and gas company, digitalisation is necessary in order to cut costs, improve efficiency in terms of communication, processes and workflow, as well as to increase agility and profits consequently resulting in a better work environment and customer experience.

As with the visit we had at Huawei Malaysia, we were exposed with a wide range of products and infrastructures that are the backbones of today's society. Rapid digital transformation across the globe has forced the world to be swift in catching up upon the latest technologies created in the means of easing networking and redefining productivity. We had the chance to learn about their latest smart devices other than phones and tablets such as the IdeaHub and smartLi UPS. Other than that, the visit emphasized on communications, networking and data storage so we got to learn and witness multiple devices such as switches and routers ranging from home to the industrial level and also their modular data centre prototype.

The visit at both Petronas and Huawei was not merely a tour of facilities but an eye-opening exploration of a revolution. All the representatives from both companies discussed and revealed the ongoing efforts to deploy cutting-edge technologies including 5G networks, overall cloud storage, and advanced networking and communication systems in order to meet the evolving demands of a digital society. Being able to learn about the things that operates in the background of our lives deepened the appreciation we have towards the world that we live in today.

