ASIAN DOWNSTREAM SUMMIT 2018

PART OF THE SIEW SINGAPORE INTERNATIONAL ENERGY WEEK

Optimizing efficiency through digitalization in chemicals, petrochemicals and refining
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Exclusive Speaker Interview

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1. **Please introduce your role at PT Kreasindo Resources Indonesia.**

   I am Robby Kambey, in charge for Asset Management at PT. Kreasindo Resources Indonesia. PT KRI is the first company that initiated two private refineries in Indonesia. My responsibility is to prepare the refineries with the current technology available in order to efficiently maintain and manage the refinery assets.

2. **What does the subject of digital transformation and IoT mean to you?**

   For me, Digital Transformation meant Changes Paradigm which refers to the way we are doing. As the phrase goes, MORE with LESS.

3. **What's the greatest impact IoT, data analytics and AI will have on the industry? What lies ahead of operators and how will they adapt?**

   Some type of jobs maybe changed or eliminated and new jobs are also created. The operators should be ready to adapt changes on the way they are doing their job and learn a new way of monitoring asset performance.

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CLARION EVENTS

4. **How do you see the role of the Industrial Internet of Things in refining, petrochemicals & chemicals? What are the key benefits and opportunities of using IIoT solutions in downstream operations?**

   The key benefits of Industrial Internet of Things are the level of safety, reliability and efficiency in downstream operations.

5. **How will this paradigm shift affect talent in manufacturing & downstream industry overall?**

   It affects the organization of the manufacturing and downstream industry in terms of job description and others.

6. **What does workplace innovation look like at your organization?**

   In the future, it will be much quieter due to the less resources that are required once innovations take over the workplace.

7. **How does this impact your customers?**

   In oil and gas sector usually customers are engaged with the long term contract. As long as we fulfil the contract with the right quality specification, right quantity in time it should be ok to the customer.

8. **What are the latest technology adoptions by downstream operators in Asia? Are there any success stories that other operators can learn from?**

   Not heard any yet for reference. One company is different to another, even in the similar sectors the configurations are different. May be we can collaborate with the technical providers for the right technology.

9. **What Does Industrie 4.0 mean for your company?**

   What we can imagine right now that it should end up with the efficiencies in doing business.

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10. Will Artificial Intelligence replace humans working in oil and gas?

To some extent, I do believe that artificial intelligence will replace humans in oil and gas.

11. What is the current state of cybersecurity preparedness across refining, petrochemicals and chemicals and how is the cybersecurity market set to evolve?

I do not know what is the current state right now, but the more we depend on the Industry 4.0, the more we should concern about the security access to the big data.

12. Are manufacturers concerned about cybersecurity in their organization?

It depends on the manufacturers how big they already invented the IIOT or Industry 4.0 in their manufacturers.

13. What are the key technologies which your company would like to implement in the next 5 years? (for refiners, petrochemical & chemicals companies only)

They key technologies what we would like to implement in the company are IIOT and Artificial Intelligence.

14. What are the current challenges and hurdles that affect the spread and deployment of the Internet of Things in your organization? (for refiners, petrochemical & chemicals companies only)

a). Location – Usually the site of the plant location is remote, so the infrastructure should be ready, power etc.
b). Regulations – Local and government regulation on the recruitment of local people in the organization
b). Standard – Currently there are no standard yet whether the company compliance on the Industry 4.0

15. **What impact does Big Data have on operational efficiency and how is Big Data changing the industry?**

a). Speed
b). New job
c). Less People

16. **What are your views on Asia's downstream industries rate of digitalisation as compared to counterparts in other regions i.e. America, Europe and the Middle East markets?**

a). Education – In the developed countries the link and match between Industry and Education are there
b). Implementation – In the developed countries implement the new things meant innovation
c). Socialization – sometime it does not need. People are already aware with the changes

17. **With these radical changes looming what opportunities lie ahead for manufacturers?**

The manufacturer to me are those who provide the new technology (Technology Provider)
a). Manufacturer should provide a Matrix what new technology to replace what (enabler)
b). Collaborate with users to prepare a Road Map
c). Calculate the efficiencies and ROA if the technology is implemented

18. **What will the future workforce look like in the digital age?**

I think the future workforce will look like S.W.A.T Working People.

19. **What will be the highlight of your presentation at Asian Downstream Summit 2018?**

a). Standard – The need for industry standard in implementing Industry 4.0
b). Team Up - Set up a working team in Asia by collaborating the stake holders
c). Socialization – Introduce the social impact of the Industry 4.0 to management and work force
d). Education – Prepare future work force towards Industry 4.0 era.
These are what I called a Change Paradigm