Plant Refurbishment and Repowering

by trueventus

Reviving the plant to meet today's demands and standards

trueventus

July 20-21 2011 | Crowne Plaza Hotel, Kuala Lumpur

"Costs of refurbishment or repowering often equal to only about 25-40% of replacing the whole piece of equipment or installing a new machine, depending on the industry."

Frost & Sullivan, May 2005

WHY YOU CANNOT MISS THIS EVENT

Plant Refurbishment & Repowering addresses the fundamental issue for various industries in Asia to remain in the forefront despite multi-domestic and global competition. Upgrading projects utilise the technological progress made since the plants first commissioning, or since the last refurbishment.

During the initial strategic planning stage of refurbishment or repowering, the challenge lies in defining the extent to which existing components have to be modified in order to achieve the biggest production efficiency improvement. Regardless, the issue of finances has an inevitability to arise. The need for effective and efficient refurbishment practices are driven by the high costs of plant shutdowns.

Nevertheless, the biggest barrier to corporate engagement on continued modernisation is most of the time not technical, financial or organisational, but human—manifesting in lack of awareness and the resistance to change. The increased pressure to reduce environmental impacts will also continue to force all industries to apply more complex technologies to their existing plants.

At Trueventus' Plant Refurbishment & Repowering, expert engineeers from various industries come together to share on how to evaluate or assess your existing plant, where to go to secure finance as well as what are the available alternatives for performance improvement and operation optimisation. Most of the topics would be approached on a case study basis to enable delegates to listen first-hand at success stories from major industries around the region. Join us this July to revive your plant!

THIS UNIQUE CONFERENCE WILL BRING DELEGATES THE BENEFITS OF:

- Analysing the rate of return against the risk of investment for a technical asset
- Identifying key preparation in design and engineering calculations, layout of plant design and detailed engineering of equipment and system
- Identifying critical work areas to emphasise proper and adequate resource scheduling for long-term and short-term refurbishment/repowering work
- Finding out how industrial ecosystems can turn surplus materials and energy into valuable resources and business opportunity
- Combining technology and expertise from a vast range of solutions designed to raise efficiency at every stage along the energy value chain
- Improving the ability to adjust production volumes up and down in meeting market demand through plant flexibility
- Enhancing current maintenance practices for a particular industry plant with regards to latest refurbishment and repowering
- Setting goals with regards to continuous education and training on system operation reliability, functionality and maintenance
- Comprehending the path to achieve ISO 14001

GOVERNMENT REPRESENTATIVE :

Alagasan Gadigaselam, Senior Director of Investment Policy & Manufacturing Services
Ministry of International Trade & Industry

FEATURING INTERNATIONAL CASE STUDY :

Jun Lanada, Maintenance Engineering Manager
Fisher & Paykel, New Zealand

Ahmer Parvez, Head of Engineering
National Food, UAE

Stuart Scott, Regional Asset and Fleet Operations Manager
Boral, Australia

Rakesh Gupta, Operation Support Manager
Dubai Aluminium, UAE

Sunil Chandiramani, Director- Global Ink Operations
Hewlett Packard, Singapore

Adrin Ramdhana Rauf, Lean Manufacturing & Continuous Improvement Manager
Kraft, Indonesia

Suwarti Sjamsuddin, Production Manager
Bayer, Indonesia

Dr S Vijaykumar, Regional HOD- Engineering
CIBA Vision, Singapore

Wawang Sukmoro, Continuous Improvement Manager
Prysmian Cable, Indonesia

LOCAL REPRESENTATION FROM :

Ir Ghazali bin Abu Hanifah, Head of Plant Facility
Proton

Mages Varen Sinniah, Manufacturing Manager
Johnson&Johnson

Mandeep Singh, Operations Director
Flextronics

Mohamed Azrin Mohamed Ali, Head of Green Technology
TNB Research

Aminah Ang, Head of the Sustainability Certification Section
SIRIM

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CONFERENCE AT A GLANCE

Day One

Session One
Perspective – Refurbishment and Repowering

Session two
Evaluating the risk, challenges and solutions in the life cycle of plants and its implication on ROI

Session Three
Conducting plant reliability evaluation prior to venturing into refurbishment and repowering project

Session Four
Risk Management - The probability of facing and rectifying consequences of unsuccessful refurbishment and repowering

Session Five
Plant optimisation – Optimising plant output during refurbishment and repowering

Session Six
Transitioning from a cost centre to a profit centre by improving plant flexibility

Session Seven
Less is more - Cashing in on energy efficiency in the plant through average scale refurbishment and repowering

Session Eight
Attaining "Zero Waste" by applying Lean Manufacturing methodology

Day Two

Session One
Maintenance management – Adapting to practical methodology for current best practices

Session Two
Operator empowerment – Enhancing continual development for optimum productivity

Session Three
Post refurbishment evaluation - Reviewing investment lessons while closing the gap of actual and forecast

Session Four
Generating from industrial ecosystem by altering the path of waste into significant utilisable energy

Session Five
Implementing large scale modifications in plant to achieve optimised energy efficiency

Session Six
Reaping the advantages of alternative energy for dependable energy reserve

Session Seven
Zeroing in on ISO 14001 EMS & sustainability improvement in achieving international certification standards

Session Eight
Panel Discussion on Life Cycle Management

WHO SHOULD ATTEND

VPs, Directors, Head, Managers, Superintendant, Team Leaders of

- Plant
- Maintenance
- Operations
- Production
- Reliability
- Engineering
- Asset
- Facilities
- Mechanical
- Finance
- Start-ups
- Commissioning
- Project
- Electrical

FROM

- Automotive
- Steel
- Heavy Manufacturing
- Pulp and Paper
- Breweries
- Food Processing
- Beverage
- Pharmaceutical
- Cement
- Tobacco
- Tyre
- Water Cooling
- Plastics & Moulds
- Packaging & Distribution
- Medical Devices
- Equipment
- Pumps & Motor
- Aerospace & Defence
- Coating & Adhesives
- Oil and Gas
- Petrochemical and Chemical
- Household/ Electrical Goods
- Industrial Gases
- Power and Utility
- IPP
- Water Treatment
- Waste Water Treatment

Day 1
Wednesday, July 20 2011

0830 Registration & coffee

0855 Opening address from the chairperson

0900 Session One

Perspective – Refurbishment & Repowering:

Warm up your engine and get ready for an overview of the leap and growth of refurbishment and repowering, since then till now, here and around the globe. This presentation will transmit and distribute the general knowledge and set up combustion for the following sessions throughout the conference.

Alagasan Gadigaselam,
Senior Director of Investment Policy & Manufacturing Services
Ministry of International Trade & Industry, Malaysia

0945 Session Two

Evaluating the risk, challenges and solution in the life cycle of plants and its implication on ROI

- Evaluating the pros and cons of refurbishment and repowering towards the efficiency and design life of your plant
- Exploring the options of solution to extend plant life and maximise yield from your current asset
- Analysing the rate of return of refurbishing and repowering against the risk of investment for a technical asset (serialised equipment)

Dr S Vijaykumar, Regional HOD- Engineering
CIBA Vision, Singapore

1030 Morning Refreshments

1100 Session Three

Conducting plant reliability evaluation prior to venturing into refurbishment and repowering project

- Conducting initial evaluation and assessment which include feasibility studies, project schedules, cost estimates, Hazard and Operability (HAZOP) study and relevant statutory requirements
- Identifying key activities in design and engineering calculations, layout of plant design and detailed engineering of equipment and system
- Reviewing of Quality Assurance Plans (QAPs)- Identifying and dealing with change in the overall quality strategy, phases of works and roles as well as the responsibilities of plant personnel

Sunil Chandiramani, Director- Global Ink Operations
Hewlett Packard, Singapore

1145 Session Four

Risk Management – The probability of facing and rectifying consequences of unsuccessful refurbishment and repowering

- Studying the possibility of failure to obtain replacement parts during refurbishment
- Verifying if new components or reverse engineering would be a better option for long term investment
- Obsolescence management: Minimising capital expenditures by cost-effective alternatives that extend the economic life and maintain the operational safety

Wawang Sukmoro, Continuous Improvement Manager
Prysmian Cable, Indonesia

1230 Networking luncheon

1400 Session Five

Plant optimisation – Optimising plant output during refurbishment and repowering

- Identifying critical work areas to emphasise proper and adequate resource scheduling for long-term and short-term refurbishment and repowering works
- Outage optimisation strategy: Keeping STO cost and duration at a minimal
- Anticipating unexpected problems which could impact safety, work programme and overheads through organised communication at all different levels and stages of the works

Jun Lanada, Maintenance Engineering Manager
Fisher & Paykel, New Zealand

1445 Session Six

Transitioning from a cost centre to a profit centre by improving plant flexibility

- Manufacturing flexibility: Ensuring operational mobility in regards of structure, infrastructure and managerial policy at the plant level
- Exploring the ability to ramp production volumes up and down to fit the demand of the market
- Analysing the cost of switching from one product to another in order to optimise product availability

Suwarti Sjamsuddin, Production Manager
Bayer, Indonesia

1530 Afternoon refreshments

1600 Session Seven

Less is more - Cashing in on energy efficiency in the plant through average scale refurbishment and repowering

- Combining technology and expertise from a vast range of technologies and solutions designed to raise efficiency at every stage of the energy value chain
- Comparing tools for improvement of energy efficiency with medium size investment through improved waste heat recovery, combustion control furnaces, co-generation and improvement of heat exchangers
- Measuring the benefits, in increased profitability through evaluation of measurable quantities before and after completion of the work

Ir Ghazali bin Abu Hanifah, Head of Plant Facility
Proton, Malaysia

1645 Session Eight

Attaining "Zero Waste" by applying Lean Manufacturing methodology

- Defining the concept of lean processes within the refurbishment and repowering context
- Applying the technology of Intelligent AP Automation to drive lean processes and information flow
- Being the Change Agent, who must be able to go beyond the normal and usual to effect the dramatic shift in operations that lean requires

Mandeep Singh, Operations Director
Flextronics, Malaysia

1730 End of conference Day 1

Day 2
Thursday, July 21 2011

0830 Registration & coffee

0855 Opening address by chairperson
Jun Lanada, Maintenance Engineering Manager
Fisher & Paykel, New Zealand

0900 Session One
Maintenance management – Adapting to practical methodology for current best practices
- Analysing why failure to maximise new technology, sticking to schedule and securing parts results in disastrous maintenance
- Finding out why preventive maintenance program fail and how to rectify it Minimising the mean long-run cost-rate for continuous-time deteriorating systems through five maintenance strategies
- Optimising machinery performance and extending plant life cycle by implementing total productive maintenance

Mages Varen Sinniah, Manufacturing Manager
Johnson&Johnson, Malaysia

0945 Session Two
Operator empowerment – Enhancing continual development for optimum productivity
- Enhancing continuous education and training on system operation reliability, functionality and maintenance
- Stressing on the impact of insufficient operator training on disturbance, operation emergency and system restoration plans
- Utilising full potential of resources and assets through operation management training

Adrin Ramdhana Rauf, Lean Manufacturing & Continuous Improvement Manager
Kraft, Indonesia

1030 Morning Refreshments

1100 Session Three
Post refurbishment evaluation - Reviewing investment lessons while closing the gap of actual and forecast
- Post implementation review: Learning the success, remedy required and improvement for current and future project
- Operation optimisation: Benefiting from a cost effective system for an uninterrupted reliable production resulting in shorter production timeline
- Process improvement: Minimising manpower by streamlining operation and maximising machine utilisation to achieve zero error production

Ahmer Parvez, Head of Engineering
National Food, UAE

1145 Session Four
Generating from industrial ecosystem by altering the path of waste into significant utilisable energy
- Discussing environmentally sound methods of handling waste by recycling and converting them into usable energy
- Reusing products to reduce depletion of natural resources: The process and cost benefits
- Realising end uses by redeveloping assets that are nearing their extractable life

Stuart Scott, Regional Asset and Fleet Operations Manager
Boral, Australia convert

1230 Networking luncheon

1400 Session Five
Implementing large scale modifications in plant to achieve optimised energy efficiency
- Exploring various modifications, which require large investment such as improvements in advanced process controls, installation of gas pressure recovery generators, installation of waste heat recovery generators and change from "wet" to "dry" process to attain energy efficiency
- Measuring the benefits of large capital investments against design life of refurbished and repowered plant
- Discussing most foreseeable barriers to energy investment and policy options for the promotion of energy efficiency investments

Rakesh Gupta, Operation Support Manager
Dubai Aluminium, UAE

1445 Session Six
Reaping the advantages of alternative energy for dependable energy reserve
- Implementing cost-efficient designs, flexibility and reliability through innovation to move alternative energy from "the power source of tomorrow" to "the power source of today"
- Photovoltaic system: Efficient and cost effective operation by converting light energy to electricity
- Hydroelectricity : Methods and benefits of utilising the energy of flowing water to generate electricity

Mohamed Azrin Mohamed Ali, Head of Green Technology
TNB Research, Malaysia

1530 Afternoon refreshments

1600 Session Seven
Zeroing in on ISO 14001 EMS & sustainability improvement in achieving international certification standards
- Familiarising with the term ISO 14001 and getting to know the benefits of implementation
- Seeking certification by gaining information on environmental management system
- Finding out about root cause analysis and improvement tool as a step towards certification

Aminah Ang, Head of the Sustainability Certification Section
SIRIM, Malaysia

1645 Session Eight - Panel Discussion
Asset Integrity Management vs Refurbishment and Repowering
Maintaining a plant at full production cycle while keeping up with demands require plant managers and operators to manage the assets and equipment emplaced via sound maintenance methodologies and, periodical shutdowns and turnaround. However, regular maintenance can only do so much to extend the lifecycle of the plant as assets will inevitable fail and OEM parts cease to be obsolete. The big question is; would refurbishment be considered a preferable option in terms of financial investment, operation practicality and profit returns? Plant operators today need to select the best time for a refurbishment to happen. What are the factors which need to be considered? What is the time frame we are looking at? Who should be involved in the decision making of when a refurbishment should happen? Join our three expert panelists as we identify the myriad challenges of creating a refurbishment timeline and what can be done to overcome them.

1730 End of conference

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COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.

Name	Job Title
Email	
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Authorising Signature	

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John Karras
Tel: +603-2711 0701
Fax: +603-2711 0703
Email: johnk@trueventus.com

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Aravind Menon
Tel: +603-2711 0701
aravindm@trueventus.com

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