

**Best Practice for Energy Performance Improvement
3-Day PRACTICAL WORKSHOP in compliance to ...**



ISO 50001

Energy Management System (EnMS)

WORLD CLASS ENERGY MANAGEMENT WORKSHOP
In conjunction with

Energy Efficiency Initiatives in Singapore

LEARNING OBJECTIVES

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When you have completed this workshop you will be able to:

- Position yourself to further develop sustainability business with superior Energy Management System (EnMS) in place within your organisation while meeting the guidelines and regulation related to Energy Efficiency Initiatives such as the new Energy Conservation Act for industrial large energy users, incentives for SME and directives for Commercial Building owners.
- Pursue global competitive advantage following ISO 50001 the international standard for EnMS
- Understand the ISO 50001 requirements in a practical manner in order to reach the level of self-readiness certification
- Possess a full set of ISO 50001 Class documentation package to make your organisation an advance start in EnMS operation
- Improve energy performance in a systematic approach that can verify the savings quantitatively in line with business outputs
- Gain knowledge to develop and enhance the skill of your workforce through superior energy management system concept
- Provide effective communication internally and externally in promoting awareness of the company's sustainability drive
- Act on Lean energy procurement drive to ensure obtaining supplier support on implementing the EnMS operation
- Pursue the best practice and continual performance improvement under PDCA (Plan-Do-Check-Action) procedure
- Upgrade your business performance with efficient operation under the ISO class EnMS operation as well as following the Energy Conservation Act of Singapore.
- Lower the operation cost
- Lift your company business ranking with aggressive drive in sustainability business development

This comprehensive workshops will also provide you with the following benefits:

- By participating in the **Energy Review Workshop**, you will gain great ideas on energy conservation opportunities (ECO) expected savings of typically from 5% up with low or no investment
- By participating in the **Energy Review Workshop**, you will gain good design concept of suitable energy monitoring system for your organisation with economical solutions
- By participating in the **Energy Review Workshop**, you will be exposed to the "RENKEI Control" concept, the most updated control technology to realise the optimum energy efficiency solution without renewing your facilities
- By participating in the **Management Review Workshop**, you will gain good knowledge on the importance of top management involvement in order to run an effective EnMS operation and achieving energy performance improvement
- By participating in the **EnMS Planning Workshop**, you will gain the skill to undertake the leadership role in implementing the EnMS operation as well as to master the planning process for your organisation
- By participating in the **EnMS Implementation Workshop**, you will gain the experience by hands on practices on key elements such as EnMS communication, continuous improvement process etc. as well as strengthening managing skill for business operation
- By participating in the **EnMS Auditing Workshop**, you will gain hands on practices on audit activities through the use of innovative scorecard system for gaining further appreciation of EnMS as well as appreciating transparency of the assessment.

AN INTRODUCTION OF ENERGY MANAGEMENT SYSTEM WORKSHOP

MANAGEMENT SYSTEM WORKSHOP AN INTRODUCTION OF ENERGY

Energy management, it is about business development

Terminology "energy" often leads us into believe it is more an engineering issue. Especially when talking about energy efficiency, we tend to focus attention on more efficient facilities, renewable energy, non-fossil energy etc. We, as business executers need to switch our mind a bit to focus on invisible living creature running around in our daily lives, energy!! All our business in general is to generate energy, energy to pursue happiness, comfort, sense of achievement, security and so on. Energy management throughout the supply chain is to manage the input of energy that is treated and processed with energy to output another source of energy to maintain the business flow. Ultimate winner in the business is to produce the highest quality output on account of the least consumption of energy. This is true for any businesses from the primary to service industry, and is true for us consumers running our daily businesses. Energy management therefore is operational processes to develop business to the optimum scale sustaining its drive in the fast changing environment. Energy management is actually the business issue.

Can your business run without Energy?

Indeed, energy is vital lifeline part of your business.

Everyone now is aware of cost to produce energy and its impact to the environment.

We are now in the era of which the business operators lose ground if they use energy as much as they want to output their products or services. As the diversified life style calls for more energy while realising most of available energy is not abundant, energy has become the major factor to run your business smarter. This is how ISO 50001, the International Standard for Energy Management System (EnMS) was developed and introduced. ISO 50001 provides guideline for organisation achieving energy performance improvement in order to strengthen its business position locally and globally.

Energy is the main factor to run your business. Once you are engaged in managing energy, you will recognise that improving energy performance can generate diversified benefits such as increase safety, upgrade quality level, reduce environmental impacts, improve skill and competency of workforce, cost reduction, uplifting corporate ranking, and many more. In fact energy management is to manage safety, quality, and environmental aspects through controlling the energy behavior.

ISO 50001 is here to endorse companies developing sustainability business to be competitive globally

Systematic approach in energy management with the baseline ISO 50001 provides opportunity for any business units to run their business aiming to gain the most energy efficient operation with continual improvement practice leading into the best sustainable business development and performance. The international standard provides equal opportunity globally for companies willing to develop business under superior EnMS operation. Furthermore while meeting the guideline, it simultaneously complies to the new Energy Conservation Act, Singapore.

So join us in this workshop, and you will immediately see the difference...

ISO 50001

WORKSHOP AGENDA

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2013	Workshop Agenda	Expert Trainer
<p>25 September</p>	<p>8.30am – 9.00am: Registration 9.00am -9.40am: Ice Breaking Session</p> <ul style="list-style-type: none"> • Welcome and getting to know each other “Singapore Energy Efficiency Drive” Overview <p>9.40am – 10.40pm Guest Speaker: TBA - NEA</p> <ul style="list-style-type: none"> • How ISO 50001 and Singapore’s energy efficiency initiative can accelerate energy performance improvement <p>Energy Management System (EnMS) and business impact</p> <p>11.00am – 12.40pm</p> <ul style="list-style-type: none"> • Practical Guide to ISO 50001 International Standard for EnMS • ISO 50001 in relation with other management systems • Management Involvement is the Key • Importance of documentation <p>1.45pm – 4.45pm</p> <ul style="list-style-type: none"> • Wiki50001, EnMS Operating System Introduction • Energy Review <ul style="list-style-type: none"> ○ <i>EnPI identification for baseline and targets</i> ○ <i>Energy Audit including Operational improvement aspects</i> ○ <i>Energy Monitoring investigation and solution</i> ○ <i>Identifying energy conservation opportunities (ECOs)</i> <i>Optimisation solution (RENKEI Control)</i> • Other management elements <ul style="list-style-type: none"> ○ <i>EnMS Action Plan</i> ○ <i>EnMS Implementation (Communication, procurement, etc.)</i> ○ <i>Checking performance (Continual Improvement)</i> ○ <i>EnMS Audit</i> • <i>Day 1 wrap up and conclusion</i> 	<p>Mr. Noboru Yamanouchi & Mr. Bayu Darmawan</p>
<p>26 September</p>	<p>WORKSHOP SESSIONS</p> <p>9.00am – 12.30pm Energy Review</p> <ul style="list-style-type: none"> • <i>EnPI identification for baseline and targets</i> • Energy audit and site investigation <ul style="list-style-type: none"> ○ Identify Energy Conservation Opportunities (ECO) ○ 1st phase monitoring system recommendation ○ Recommended action for energy performance improvement <p>1.30pm – 5.00pm Management Review</p> <ul style="list-style-type: none"> • Holding a management review session per group <ul style="list-style-type: none"> ○ Review the findings and recommendation ○ Energy performance improvement targets ○ Financial, economics and prioritizing ○ Approving the energy saving actions <p>EnMS Action Plan</p> <ul style="list-style-type: none"> • Establish EnMS Action Plan for implementation of EnMS operation • EnMS Action Plan Production (Author EnMS champion) 	<p>Mr. Noboru Yamanouchi & Mr. Bayu Darmawan</p>

<p style="text-align: center;">27 September</p>	<p>WORKSHOP SESSIONS</p> <p><i>9.00am – 9.30pm</i></p> <ul style="list-style-type: none"> Improvement Infrastructure using wiki50001 <p><i>9.30pm – 15.00pm</i></p> <p>EnMS Audit</p> <ul style="list-style-type: none"> EnMS Audit Planning Preparing EnMS audit <ul style="list-style-type: none"> Documentation and data review Creating audit path Preparing audit scorecard EnMS audit activity <ul style="list-style-type: none"> Site assessment using wiki 50001 and scorecard Consolidating the findings and evaluation Identify improvement actions and the final score Closing meeting <p><i>3.15pm – 4.15pm</i></p> <p>Energy Performance Continual Improvement Procedure (wiki50001)</p> <ul style="list-style-type: none"> Implement three types of improvement procedure ISO 50001 compatibility gap analysis <p><i>4.15pm – 5.30pm</i></p> <p>Ending Message and session certification presentation</p> <ul style="list-style-type: none"> Discussion on EnMS effectiveness and future actions Closing Ceremony with Certificate Presentation 	<p style="text-align: center;">Mr. Noboru Yamanouchi</p> <p style="text-align: center;">&</p> <p style="text-align: center;">Mr. Bayu Darmawan</p>
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Energy Management’s another positive aspect: Elimination of “waste”

Energy waste such as inefficient use of energy or use of energy with low/no productivity is one of the key issues confronted by many organisation today. The waste is due largely by lack of people's attention on energy behaviors, facilities degradation over time, over supply of energy to demand requirements, and misuse of energy for the purpose of work, etc. The waste is also company's undesirable expenditure placing negative impact on the business performance and must be eliminated or prevented. The only solution to this is a proper energy management system in place.

Energy Management: Nothing to lose but only yielding further profit by adopting the Best Practice

ISO 50001 Class EnMS is not a new system to be established within your organisation. The system is already integrated within your business operation, and only to require the top management involvement in capitalising ISO 50001 concept for energy performance improvement. It can be wisely implemented without adding the company resources, while blending the operation in line with the Green Mark scheme and/or Singapore’s Energy Conservation Act, plus other relevant regulations.

So join us in this workshop, and you will immediately see the difference...

Mr. Nobby

It was a pleasure to know you and Ir. Lam.

Before attending the training, I was preparing myself for a bored 3 days training.

As most of ISO training were always focusing on explaining each clauses of the standard, its requirements, and participant will then be required to prepare examples of SOP & etc.

But to my surprise, your approach is totally anew. Sample of documents were provided, and focus were more on data analysis...

TESTIMONY

Target Audience

This workshop is mainly targeted to business oriented person responsible in energy management who represent the top management of the organisation. The represented organisation top management must be aware of the importance and effectiveness of the ISO 50001 Class EnMS operation. The organisation can be as aggressive as to expect self-readiness ISO 50001 conformity status within short period of time at the minimal cost after designated representative completing the workshop. The target audience must be prepared to adapt methodology and easy to use ready-made ISO 50001 compatible EnMS documentation that will be provided during the session.

Practical Workshops Exercises and applying learned concepts

Group Exercises - The delegates will participate in both mental and physical exercises to establish the EnMS ideas and principles firmly in their minds. The classroom work will enable the delegates to understand how to use the proprietary tools and techniques correctly, to enable the delegates to identify what questions they need to ask and where to get the information they need. Team building exercises will address the importance of teamwork in implementing ISO 50001 assessment.

Stimulated Case Study Workshop Sessions

The session's covers key elements of how to establish and Plan EnMS operation (Plan), Implement (Do), Verify (Check) and Improve (Act) in line with the requirements of ISO 50001. Delegates will have an opportunity to use all the proprietary tools and techniques they have learnt, and practice data gathering in a simulated environment. When they complete the sessions, they will have already experienced the challenges of the ISO 50001 implementation that can be applied as an immediate positive impact to the organisation when they return from the 3-day sessions.

Who should attend?

Top management representative responsible for EnMS, Energy Management Control Officer, Energy Management Planning Promoter, Company Senior and/or Middle Management, Plant Energy Manager.

Individual Attention and Post Training Support

Delegates will get individual attention, working in teams of four and/or five .

Participants will have email access to the trainer post training for any questions on implementation issues.

All participants' will receive:

- ✧ All presentation materials in electronic format.
- ✧ A set of speakers' proprietary tools of EnMS softcopy (EnMS 12 key management documents including EnMS charter, Energy Review Report, M&T Guidelines EnMS Audit Guidelines, plus EnMS Audit Scorecard kit)
- ✧ Training Completion Certificate
- ✧ Qualify to the prestigious SEP membership of Energy User League of ISO 50001 "Self-Declaration"-Singapore (The League)
- ✧ The League's SEP members are entitled to 30 minutes individual session with speakers outside the session, upon prior request
- ✧ Workshop report will be sent as post-workshop as one of deliverables

Don't miss this great opportunity!

Class size is strictly limited to 25 person.

Book right now to avoid disappointment.

Successful applicants will be notified within 2 weeks from date of submitting their application.

EXPERT TRAINER PROFILE

EXPERT TRAINER PROFILE



MASTER TRAINER

Mr. Noboru Yamanouchi [Nobby]

Energy Management System (EnMS) Specialist

Nobby is an Energy Management System (EnMS) specialist and author of EnMS management documents. His background is in the field of business development with a leading control maker in Japan.

He developed a concept of "Carbon Marketing" which was to stay with the energy users until achieving the targeted carbon emission reduction before closing the sales. In doing so, he assisted clients to develop EnMS in order to maximise the use of the deliverable supplied. His full time energy management consultancy began in 1997 in Thailand assisting energy users to comply with the ENCON Act that had become Thai law. He worked with energy users to enhance their EnMS operation to achieve energy performance improvement in line with the Thai government guideline.

After re-joining the control company as an EnMS consultant in 2002, he served Japanese energy users until 2010. During this period he also took an assignment of Japan Electronics & Information Technology Association (JEITA) where he played a team leader role undertaking the study group on "Energy Efficiency Control Technology for Climate Change". Through this work, he input elements required for the development of ISO 50001 in which JEITA was one of delegates for Japanese mission in the development. In 2010, he started his own entity EnMS-Doc Associates with its mission to broaden association globally with organisation or individuals involving EnMS in compliance with ISO 50001.



Coach Trainer

Mr. Bayu Darmawan [Bayu]

Principal Consultant

Bayu has about 18-years experience in the Management Systems in the areas of Quality, Health & Safety, Energy, Environment, Medical Devices, Telecommunication and Integrated Management System.

Before running Consultancy Company as a Principal Consultant, he assumed the post of Operations Director for BSI Group Singapore Pte Ltd, an internationally accredited Certification Body.

He has vast experience in the 3rd party auditing field and has audited different type of companies both in private and government sectors in South East Asia and other regions. Audited Industry sectors include electronics, oil and gas, chemical, mining, telecommunication, medical devices, construction, machinery, transportation & logistics, trading and others.

Being Lead Auditor for ISO 50001 and having expertise in the implementation of Integrated Management System using PAS 99 standard, he can assist the company in implementing Energy Management System and integrate it with other Management Systems in order to have holistic approach to managing business risks from the energy management perspective.

REGISTRATION FORM

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Participant's Information

Name (Dr/Ir/Mr/Mrs/Ms) : _____
NRIC/Passport No. : _____
Designation : _____
Address : _____
Postcode : _____
Country : _____
Telephone : _____
Mobile : _____
Facsimile : _____
Email : _____

Fee and Special Deals:

Early bird fee: (Pay before 31 st August)	SGD 1,850. ⁰⁰
Group discount (three or more)	SGD 1,650. ⁰⁰
Normal Fee: (Pay after 1 st September)	SGD 2,250. ⁰⁰
Group discount (three or more)	SGD 1,950. ⁰⁰

Payment Option (Please **v** where applicable)

- Cheque made payable to "Antris Management Solutions"
and crossed Cheque No: _____
- Telegraphic transfer :

Bank Name : DBS BANK LTD
Bank Address : 12 Marina Boulevard
DBS Asia Central
Marina Bay Financial Centre
Tower 3
Singapore 018982
Bank Account No. : 181-900039-1
Swift Code : DBSSSGSG

Substitution of Delegate

Substitution is allowed, provided the Organiser is notified in writing of the name and the designation of the new delegate(s) at any time prior to the commencement of the event. Transfer of registration to other programmes is not permitted.

Refund of fees

All cancellation of registration must be made in writing. If cancellation is received:

- More than 14 days before event, 30% will be refunded
- 7-14 days before the event, 10% will be refunded
- Less than 7 days, there will be no refund

Cancellation

We reserve the right to cancel the programme due to unforeseen circumstances.

Signature : _____
Date : _____

Upon signing this form, you are deemed to have read and understood the Registration Guidelines, Procedures and Policies and have accepted the terms therein. Please return this registration form together with the payment to reach us before the commencement of the event.

Administration Details

Antris Management Solutions
20 Marine Terrace #05-116
Singapore 440020

Telephone: +65-9040 0166 (Bayu)
+65-9224 3623 (Nobby)

Email: darmawan_bayu@singnet.com.sg
nobby@enms-doc.com

Website: www.enms-doc.com/workshop_ISO50001