

ENERGY SYSTEMS MANAGEMENT WORKSHOP

A practical workshop on energy efficiency in common systems found in business and industry

DAY ONE THURSDAY 3 DECEMBER 2009

8.30	GREENHOUSE AND ENERGY, LEGISLATION, Greenhouse emissions, gas types covered, legislative overview covering the CPRS, Energy Savings Scheme and possible grants and areas of government assistance.	Jennifer Stace DECCW
9.15	COST IMPACTS AND OPPORTUNITIES Why energy prices will increase. Overview of the expected energy price impacts of the CPRS, electricity price increases, gas price increases and NSW based energy savings legislation. An overview on the types of energy efficiency grants will also be provided.	Andrew Doig ASBG
10.15	<i>Morning Coffee</i>	
10.35	COMPRESSED AIR SYSTEMS Overview of how compressed air systems work and to get the best efficiency out of your compressed air systems. Leak detection, sizing and optimization of existing systems will be covered. Savings of over 20% are typical for many sites with compressed air systems.	Quentin St Baker Champion Compressors
12.00	<i>Lunch</i>	
1.00	EFFICIENT LIGHTING SYSTEM DESIGN AND EQUIPMENT Overview of various approaches and equipment available to reduce your lighting bills. Covering the basics of measurement to lamp types, variable luminosity and overall management.	Leyden Deer Exergy
2:30	MOTORS, FANS, BOILERS, INSULATION AND LAGGING Correct loading of electrical motors, use of high efficiency motors, power factor correction, use of cogeneration, boiler maintenance, pipe and valve lagging, use of gas vs other fuels, roof insulation and its advantages.	Andrew Doig
3.20	<i>Afternoon Tea</i>	
3:40	WORKSHOP CASE STUDY: Participants are to undertake a Case Study workshop on energy efficiency using a mock site with various energy issues	Andrew Doig
5.00	<i>End Day 1</i>	

DAY TWO FRIDAY 4 DECEMBER 2009

8.30	HEATING VENTILATION AIR CONDITIONING AND COOLING TOWERS An overview of energy consumption composition in commercial buildings. How far can HVAC technology take us or is building redesign required? Use of on going monitoring, analysing and improving approach to building management. Workshop a case study on poor to efficient HVAC	Shahram Omidvar Normand Disney & Young
10.15	<i>Morning Coffee</i>	
10.35	GREENHOUSE EMISSIONS MEASUREMENT Using the NGER determination for greenhouse gases a variety of measurement, estimation practices and monitoring techniques are explored with a focus on compliance. These are provided with case studies and work through examples.	Andrew Doig ASBG
12.15	<i>Lunch</i>	
1.15	ENERGY MANAGEMENT – Introduction To ISO 14064 Greenhouse Verification System Greenhouse Gas Verification and Assurance of Greenhouse Gas Emissions to the international Greenhouse Gas reporting standard ISO 14064 covering implementation of credible, reliable and transparent GHG management systems and integration into existing ISO 14001 management systems.	Nav Brah NCSI
2:30	WORKSHOP Participants are invited to discuss with the group and experts key energy issues, equipment and approaches to operate and design them more efficiently. Specific and individual examples of energy efficiency approaches will be discussed.	
3.00	<i>Afternoon Tea</i>	
3.20	WORKSHOP cont.	
4.30	<i>Close</i>	

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