

Farm Energy Forum



Department of
Primary Industries



Local Land
Services

Farm Energy Forum Program

Thursday 20 June

Nowra Golf Club, North Nowra

Time	Item
9.30 – 9.45	Opening/Welcome EES & Agencies & Industry bodies involved John O'Connor / Michael Cashen
9.45 – 10.30	Key note speaker: Dr Neil Thompson - Hydrogen Power is coming 'Integrated hydrogen energy systems for agribusiness '
10.30 – 11.00	Understanding Electricity: the grid, usage and cost: Lee Stewart Part 1 Network set up: charges and how to manage them
11.00 – 11.15	Morning tea
11.15– 12.30	Understanding Electricity usage and cost – Lee Stewart Part 2 Energy Management + Electrical training and support available e.g.: <i>90% subsidy on consultant to audit and plan energy savings</i>
12.30– 12 50	Lunch Break
12.50 – 1.45	Practical Energy saving options overview: Nick Bullock Water heating, cooling and pumping, power controllers, solar power and pumps, (stock & domestic, grid connect, stand alone, hybrid systems) Local examples...Keith & Paul Anderson, Tim Cochrane Battery storage Charles Lou (Pitt & Sherry)
1.45 – 2.05	Irrigation Check-up: Dave O'Donnell Efficiency benchmarks, power costs, pump costs, simple checks & designs that save
2.05 – 2.30	Q&A Panel: Speakers & locals
2.30 – 2.50	Industry developed assistance <ol style="list-style-type: none">1. Dairy Energy Program: - Greg Duncan DA/DNSW2. NSW Farmers programs and materials - Aginnovators3. NSW DPI Rural Resilience / RAA (NSW DPI)4. Repower Shoalhaven
2.50 – 3.00pm	Wrap up: Day Summary + 2 or 3 big ideas from each talk Evaluation
3.00	Afternoon tea Networking opportunity with refreshments at conclusion

Farm Energy Forum Program

Friday 21 June

Bega Civic Centre – Biamanga Room

Time	Item
9.30 – 9.45	Opening/Welcome EES & Agencies & Industry bodies involved John O'Connor / Michael Cashen / Dan Morgan
9.45 – 10.30	Key note speaker: Dr Neil Thompson - Hydrogen Power is coming 'Integrated hydrogen energy systems for agribusiness '
10.30 – 11.00	Understanding Electricity: the grid, usage and cost: Lee Stewart Part 1 Network set up: charges and how to manage them
11.00 – 11.15	Morning tea
11.15– 12.30	Understanding Electricity usage and cost – Lee Stewart Part 2 Energy Management + Electrical training and support available e.g.: <i>90% subsidy on consultant to audit and plan energy savings</i>
12.30– 12 50	Lunch Break
12.50 – 1.45	Practical Energy saving options overview: Nick Bullock Water heating, cooling and pumping, power controllers, solar power and pumps, (stock & domestic, grid connect, stand alone, hybrid systems, battery storage) Local example...Michael Shipton
1.45 – 2.05	Irrigation Check-up: Dave O'Donnell Efficiency benchmarks, power costs, pump costs, simple checks & designs that save
2.05 – 2.30	Q&A Panel: Speakers & locals
2.30 – 2.50	Industry developed assistance 1. Dairy Australia Energy Program: - Greg Duncan DA/DNSW 2. Bega Cheese energy initiatives (Mel Balas) 3. NSW Farmers programs and materials - Aginnovators 4. NSW DPI Rural Resilience / RAA (Ted O'Kane NSW DPI)
2.50 – 3.00	Wrap up: Day Summary + 2 or 3 big ideas from each talk Evaluation
3.00	Afternoon tea Networking opportunity with refreshments at conclusion

Introducing the speakers



Dr Neil Thompson has undertaken award-winning research at QUT Australia and KIT Germany in his role as Adjunct Associate Professor with the Institute for Future Environments. His work in the field of integrated hydrogen energy systems for mining and agribusiness has been regularly published in the USA and Europe leading to his recent appointment as Managing Director of ITM Power Pty Ltd for the APAC region. Since then he has developed a number of local reference sites for ITM's rapid response PEM electrolyzers across the mobility, industrial chemistry and power to gas sectors in partnership with key international clients.

Lee Stewart is a Director of Ndevr Environmental in Sydney, leading projects on Energy Efficiency, Carbon Accounting and Climate Change. He has over 15 years' experience in consulting and corporate sustainability roles ranging from start-ups to a large multinationals such as Fujitsu. Lee Co-authored the *SMARTer 2030* report that explored how technology available today can reduce Australian emissions by 26%. He delivers Energy Management training courses for NSW Government Agencies and is known for helping organisations evolve their sustainability practices from a compliance activity into one that can become a competitive advantage and market differentiator. Prior to joining Ndevr Environmental, Lee was the Head of Sustainability for Fujitsu Oceania and was also a member of the Global Sustainability Leadership.



Nick Bullock has over 20 years' experience working with farmers to review their current farm practices, identify improvements for production and environmental benefit and facilitate implementation. This has required understanding each farmer's systems and realizing the potential for change. He has worked with dairy, beef, oyster, pig, poultry and irrigation farmers. Projects have ranged from energy efficiency, renewable energy, whole farm planning, farm mapping, dairy effluent, irrigation, pumping and reticulation systems. As an ex- dairy farmer he understands farmers' perspective and barriers to change.

Dave O'Donnell has 25 years previous experience working for the Department of Agriculture in Victoria, Tasmania and New South Wales. His particular focus is on irrigation efficiency and productivity in horticulture and irrigated dairy in Southern NSW. Dave works with industry and grower groups to draw together information on technology and management that makes the most of water and energy efficiency. Dave specializes in newer irrigation system types particularly conversion to centre pivots, irrigation scheduling, energy efficiencies. Dave is an Irrigation Australia trainer and has been conducting irrigation training on centre pivots for the last 15 years.



