

9.30am – 10.00am Registration & Tea/Coffee

10.00am – 10.10am Welcome & Introduction
– Edward Murnane – MD, Procad Engineering

10.10 am– 10.25am Opening Address
– Mr. Michael Noonan TD, Minister for Finance

10.30am – 11.15am Energy Efficient Design Methodology (EED)

The Energy Efficient Design (EED) Special Working Group (SWG) was established in September 2008 by SEAI. In developing the programme of work for this SWG, it's members sought to address why energy efficiency technologies and best practices have not achieved their true potential. The key weakness identified by the group was that traditional design projects are not organised nor are design processes in place to deliver optimum EED. The work completed by this group resulted in the development of a new EED methodology for implementation in the design phase of new or renovated facilities or processes. This methodology emphasises that the energy management process begins at design stage and provides a project organisational framework including specific design activities that can be incorporated into the overall project design structure. This ensures delivery of the most energy efficient design and lowest operational cost of the building or process. This presentation will give an overview of the EED Methodology and will outline some examples of its use & success in recent projects.

John O'Sullivan, LIEN Project Manager, Sustainable Energy Authority of Ireland. (Followed by Q&A's)

11.15am – 11.50am Waste to Energy: Developing an Anaerobic Digestion project in Ireland
– A Personal Perspective

Anaerobic Digestion (AD) is the process whereby organic matter is broken down by bacteria and enzymes in an oxygen-free environment. The organic matter is released as biogas which is subsequently used to fire a CHP Unit to produce heat & electricity. In this role, it offers the potential of treating organic waste, especially food waste, diverted from landfill and, in return, of producing renewable energy in the form of biogas which can be used for heat, power and fuel. Thus, it offers the potential of making a significant contribution to achieving key national targets by reducing the amount of biodegradable municipal waste sent to landfill, reducing CO₂ and other greenhouse gas emissions and increasing the fraction of renewable energy production. In this presentation David McDonnell will discuss his experiences with the development of a recently commissioned AD plant in county Limerick. He will discuss the process of designing & constructing this facility and cover a variety of aspects including planning, animal by-product regulations and connecting to the grid.

David McDonnell, McDonnell Energy (Managing Director) (Followed by Q&A's)

11.50am – 12.00am Tea/Coffee Break

12.00am – 12.45pm Solar Energy – Commercial & Industrial Applications

Solar Energy is one of the few truly clean, renewable & sustainable energy sources available to the world today. In Ireland its application to date has largely been in the leisure and domestic sectors, however this is changing. In more recent times, commercial & industrial organisations are looking closely at what Solar Energy has to offer and how it can be incorporated into the processes on their sites. A strategic longer term view on energy price stability as well as simple payback is driving the interest in this sector. Processes such as cleaning, pasteurisation, drying, pre-heating boiler feed, space heating & even cooling can be suitable applications within the industrial & commercial sectors. This presentation will include an overview of the Solar Industry in Ireland at present, will look at the drive towards Solar Process Heating in Europe as well as outlining some of the factors at play when evaluating possible retrofits of existing facilities. A case study will also be included.

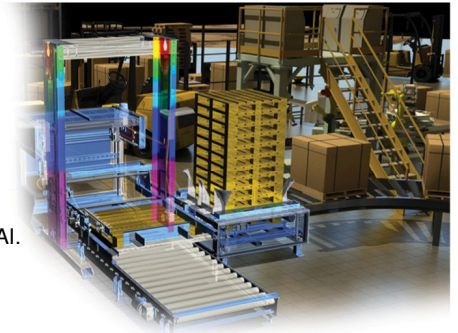
Steven Smyth, Technical Director, Carey Solar (Followed by Q&A's)

12.45pm - 1.30pm ICT in Buildings – The energy cost and how ICT can work for you

The energy cost of modern data centres and comms rooms can be a hidden drain within your building. During this session we will outline the scale of these costs and also outline an effective measurement tools to track the effectiveness of your comms room. Data centre configuration and layout will be addressed to outline the current thinking in terms of best practice, sizing of HVAC and establishment of N+1 redundancy. In addition we will examine the benefits of utilizing Group Policy to activate PC Power Options to achieve savings. The Power Options mode will be demonstrated and an example offered to back up the initiative.

Colm O Duinn – Ethos FM Consulting (Followed by Q&A's)

1.30pm - 1.35pm Close 1.35pm – 2.00pm Lunch



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