



The SCTE – The Society for Broadband Professionals

has pleasure in announcing
the next in its series of
Lecture Meetings hosted by the Benelux SCTE

BENELUX LECTURE MEETING

**“POWER CONSUMPTION
IN COMMUNICATION
NETWORKS – AN OFTEN
UNDER-ESTIMATED TOPIC”**

on

Tuesday 17 September 2013

at

**The International Broadcasting Convention
Emerald Room
RAI Exhibition & Congress Centre
AMSTERDAM**

Registration at 9.30 am

SCTE Benelux Secretary:

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“POWER CONSUMPTION IN COMMUNICATION NETWORKS – AN OFTEN UNDER-ESTIMATED TOPIC”

The costs for power consumption in communication networks are often forgotten but add to the operational costs for the operators, however, these can be lowered by looking for “green solutions” that optimise power consumption. The speakers will be presenting papers on several solutions to lower power consumption from a consumer point of view, the facilities, as well as the network components and the outside plant. The session will help operators achieve a better understanding of the possibilities of optimising power consumption.

You don't have to be a SCTE member to participate in this free “Value Added” session at IBC – simply register with the SCTE Benelux Secretary, Rien Baan – see details below. Presented papers will be available for members to download from the SCTE website after the event.

PROGRAMME

09.30 - 10.00 Registration and Coffee

10.00 - 10.05 Welcome by the SCTE Benelux Chairman

10.05-10.35 “Power Consumption in FttH vs HFC Networks”

Hendrik Rood, Senior Advisor, Stratix

FttH networks deploy a passive outside plant compared with HFC networks and henceforth power consumption, a significant cost for MSOs, vanishes for the distribution network. However, deploying more and new equipment in the headend and the effect of shifting a part of power consumption to the end-user with their premises NTU and other new equipment, should be part of the full picture on energy usage impact. In this talk we will give an overview of the energy impact of FttH from the perspective of Green IT objectives of a cable operator transitioning.

10.35-11.05 “Network Powering: Methods, Costs and Financial Impact”

George F Taylor, President, Smart Tech 21 Inc

This presentation will deal with the cost and operation implications of power systems used in the broadband cable industry. The introduction of switch power technology will be discussed, and compared with non-standby and standby power architectures. Potential cost impact of each technology as it relates to capital investment and operating expenses will be discussed. In addition, the potential truck roll reduction and manpower savings will be demonstrated.

11.00 - 11.30 Coffee Break

11.30-12.00 “Managing Critical Facility Energy Use to Meet Business Growth Demands”

Paul Shmotolokha, President, Coppervale

An MSO's critical facilities (data centres, headends, hubs, etc) represent approximately 25% of the company's annual electricity spend. However, with a near 50% year-on-year growth rate of the data going through these facilities and an unpredictable electricity pricing environment, MSOs are coming to the following conclusion: some action must be taken to prevent rapid acceleration of critical facility electricity spend in the coming years. In fact, it has been noted by one MSO in the North American market that at current critical facility energy growth trajectory, inability to access adequate and cost effective energy resource could at some point limit future ability to grow the business. To this end, cable operators are now realising that to bring energy usage and availability under control, knowing and understanding their energy usage is an important first step to being able to properly and appropriately manage growth within their energy limitations and constraints (as they exist today and/or develop in the future). In essence, they are realising that to avoid energy availability and affordability being a drag on future growth of the business, they must know as much about their energy use as they currently know about their networks.

12.00-12.30 “Power Utilisation in HFC Networks - Status and Outlook”

Dr René Spée, Consultant

HFC system operators spend approximately 60-70% of their powering budgets on the outside plant, with the remaining 30-40% covering critical facilities and administrative facilities. This paper focuses on powering of the outside plant, presents benchmark power utilisation figures for typical HFC systems and introduces key efficiency drivers: density, fibre penetration, coax infrastructure, system voltage, power supply utilisation and efficiency of the fielded actives. This forms the foundation for a discussion of efficiency enhancement strategies to consider for both new builds as well as existing plant. Given the capital investment in fielded infrastructure, any efficiency improvements for existing plant will be evolutionary in nature and subject to demonstration of acceptable return on investment. The discussion will explore efficiency not only in terms of power consumption, but will also address the financial implications of various powering alternatives for the system operator. Depending on the powering architecture and the prevailing utility tariff environment, energy efficiency at times may not translate into financial effectiveness. In addition to energy and cost considerations, the paper will also explore the potential impact of various powering strategies on overall system reliability.

12.30 - 12.40 Closing remarks by the SCTE Benelux Chairman

12.40 - 1.30 Lunch - a light buffet lunch will be provided for all those attending.

Booking Details: On this occasion, there will be no charge for SCTE Members and non-Members to attend, however, for catering and registration purposes, would you please either complete the booking form below and return it to the Benelux Secretary (details below) by post or fax giving the names of the people attending. Alternatively, please just drop Rien Baan a note by email to advise him of your requirements (details overleaf).

Name:

Address:

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Tel: Fax:

Email: Mobile:

Please reserve place(s) for the lecture meeting in the names of:

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