

Getting the Green Light: Standards for the Green Supply Chain – What you need to know



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**How Green
is your Supply Chain?**
Conference

28 August 2008 • Glenburn Lodge, Muldersdrift

Why “Green”?

- **Reduce Carbon Footprint**
- **Energy crisis**
- **Environmental issues**



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Reduce Carbon Footprint – How?

- Source building material, bricks, cement, aggregate and sand from the closest source in order to reduce the transport distance and related emissions
- Modify and refurbish instead of demolishing or adding to avoid unnecessary production and transport of building materials



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Reduce Carbon Footprint cont

- Ensure that waste and off cuts are reduced by specifying standard sizes
- Ask suppliers for information on their energy practices in order to create awareness and allow for the making of informed decision



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Reduce Carbon Footprint cont

- **Electricity** is the key contributor
- **Electricity consumption** - measurement only available at high level
- Data uncertainty is highest around logistics as it is often contracted out and fuel efficiency is not measured



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Reduce Carbon Footprint cont

- **Energy Efficiency:** achieving the same performance / service with smaller energy use.
- **Business process & employee engagement:** changes in working practices which reduce travel and energy use.
- **Renewable Energy:** either on company property and/or purchased from suppliers



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Reduce Carbon Footprint

SANS 14064/ISO14064 Part 1 is the basis for establishing a credible carbon footprint



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Energy Crisis

- Demand bigger than current supply
- Demand bigger than future supply
- Energy security becoming an issue
- Envisaged legislation to ENFORCE power conservation eg remote switch-off, penalties, etc.



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Energy Crisis /cont

- Reduction strategies
- Energy savings
 - Awareness
 - Auto switch off
- Waste and packaging
 - Take back agreements
 - Use of biogas for chilling
 - Use of organic waste as mulch/compost



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Energy Crisis /cont.

- ISO in conjunction with UNIDO are in the process of developing an Energy Efficiency Management System Standard
- SABS Standards Division – established TC 242, Energy efficiency
- TC 242 in process of adopting 2 Danish standards – interim solution



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Energy Crisis /cont.

- Energy efficient buildings
 - National Standard solution
- SANS 204 Energy efficiency in buildings
- Part 1 – General requirements
- Part 2 – Energy efficiency in buildings within a natural environment
- Part 3 –artificial environment, etc



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Energy Crisis / end

- Approach on these standards – similar to ISO 9001 & ISO 14001 AND fully compatible



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Environment

- Pollution – ground/air/water
- Resources
- Waste management legislation - Enforcement
- Infrastructure



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Environment /cont.

- Standards as solutions:
 - Environment
- SANS 14001/ISO 14001 – *Environmental management systems – Requirements with guidance for use*



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Environment /cont

- Standards as solutions:
 - Product design/development
- SANS 14062/ISO/TR 14062
Environmental management – Integrating environmental aspects into product design and development



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Environment /cont.

- Standards as solutions:
 - Transport /Logistics
- ARP 067 Road transport management systems –
 - Part 1 – Operator requirements - Goods
 - Part 2 – Consignor requirements - Goods
 - Part 3 – Consignee requirements - Goods



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