Sustainable United Nations

Supporting the UN Climate Neutral Strategy

United Nations Environment Programme
Here Comes the SUN

• Background
• Objective of SUN
• Our approach
• Sources and Causes
• SUN as a place for information
• SUN as your best friend
Climate Change in a Nutshell

GHG emissions increased by 70% from 1970 to 2004

GHG levels in the atmosphere are the highest in 650,000 years

The question is not IF? but HOW MUCH?

Mitigation costs are estimated to 1% of global GDP per year

Costs of no action is estimated to 20% of global GDP per year

Climate Change is the global threat!

Where is UN?
More than setting a good example

UN SG pledged, on World Environment Day (5 June 2007)

“…to explore ways of making the United Nations more climate friendly and environmentally sustainable, and to develop a climate-neutral approach to its premises and operations.”

- Climate Change impacts almost all mandates of UN.
- More and more UN organizations are challenged by their governing bodies and member states
- Our ability depends much on our credibility
In particular, by the end of 2009 we will:

- Estimate our greenhouse gas emissions consistent with accepted international standards;
- Undertake efforts to reduce our greenhouse gas emissions to the extent possible; and
- Analyze the cost implications and explore budgetary modalities-including consulting with governing bodies as needed - of purchasing carbon offsets to eventually reach climate neutrality.
Why?  CEB adoption of UN C-neutral strategy
How?  By each organization
But:  There is a need for guidance, support, and exchange of know-how and lessons learned.

SUN will:
✓ Assist in identification, quantification and justification of opportunities for emission reduction.
✓ Provide tools, methodologies and guidelines.
✓ Support information exchange and access to outside expertise

➢ SUN is working with UN and other organizations
➢ SUN supports climate neutrality and sustainability
SUN

Sources and Causes

Heating as example:

*Initial conclusion:* High emissions = need to improve heating system

*Are you sure?* Possible causes for large GHG emissions associated with heating include:

- Energy supply
- Performance of building envelope
- Indoor target temperature
- Attitude of staff
- Operational hours of office
- Office heating strategies
- Level of heat recovery in exhaust air

- Zoned control of heating
- Integration of HVAC
- Technical performance of heating system
- Maintenance of system
- Training of technical staff
- Energy saving plan
Simple ideas can go a long way

Example of light

1. Change to efficient lamps
2. Change to efficient ballast
3. Personalize light controls
4. Central turn off after working hours

5. Occupancy sensors in infrequently used areas
6. Maximize day light penetration through window design
7. Maximize light penetration through interior design
8. Understand why lamps are switched on
9. Minimize glaring and through-window heating
10. Raise awareness for staff
11. Provide incentives for staff
12. Set formal targets and monitor
13. Encourage e-commuting
Causes for energy use

- Building design & operations
  - Building envelope, design features
  - Energy systems (power supply, heat/cool, ventilation, lighting, etc)
  - Water and waste systems, and Chemicals use
- Procurement (travel, transport, equipment etc).
- Management policies / Organizational culture
SUN will focus on:

1. **Buildings & facilities:** Where we are
2. **Procurement & travel:** What we use
3. **Culture:** How we behave

Two ways of getting some SUN:

- Conduct cross-cutting assessment with SUN support with the aim to **develop comprehensive action plan for climate neutrality**
- Use tools & guidelines, benchmarks, case studies, expert network and on-line information exchange to address specific issues.
SUN works with the organization to:

- Conduct initial review
- Identify areas for in-depth assessment
- Draft action plan for climate neutrality
- Verify & support proposal
- Assist with tools, expert network, information sharing

Based on formal agreement between SUN and organization.
1. GHG inventory tool  
2. Screening methodology  
3. Performance audit system  
4. Facility management guide  
5. Technology source book  
6. Life Cycle budgeting tool  
7. Field companion  
8. Green meeting instructor  
9. Sustainable Travel & Transport roadmap  
10. Procurement guidelines & product fact sheets  
11. Procurement policy and statistics  
12. Cultural Guru  
14. Expert network  
15. Information gateway - KMS
Working with SUN

1. Working with SUN is voluntary
2. The UN Climate Neutral goal is already adopted
3. SUN will help you to do the work – not do the work for you.
4. Working with climate neutrality will still require time and resources from your organization
5. SUN is not an audit and not a certification!
6. It is still early dawn but we expect a sunny day!