Today’s Agenda

• Introductions & ISCN overview
• The rationale for reporting
• Charter principles and report format
• Examples of reports
• Timeline for the 2012 reporting season
• Coping with survey fatigue
• Question & answer
The ISCN Secretariat

• Day-to-day management of ISCN activities
• Support for ISCN Members

On today’s call:

Bernd Kasemir, ISCN Program Manager
Clare Connolly
Debbie Shepard
ISCN Overview
The ISCN is...

- An international organization designed to support leading colleges and universities around the globe in achieving sustainable campus operations and the integration of sustainability in research and teaching.

- Co-hosted by:
Our Mission:

To provide a global forum to support leading colleges, universities, and corporate campuses in the exchange of information, ideas, and best practices for achieving sustainable campus operations and integrating sustainability in research and teaching.
Our Members

**Americas**
- Brown University
- Carnegie Mellon University
- Columbia University
- Georgetown University
- Harvard University
- John Hopkins University
- Massachusetts Institute of Technology
- Monterrey Institute for Technology and Higher Education
- Pontifical Catholic University of Peru
- Princeton University
- Stanford University
- University of Pennsylvania
- Yale University

**Europe**
- Ecole Polytechnique Fédérale de Lausanne (EPFL)
- Institut Européen d'Administration des Affaires (INSEAD)
- KTH Royal Institute of Stockholm
- London School of Economics
- Swiss Federal Institute of Technology (ETH Zurich)
- Politecnico di Milano
- University of Oxford
- University of Cambridge
- University of Gothenburg
- University of Luxembourg

**Asia**
- Indian Institute of Technology Madras
- Keio University
- National University of Singapore
- Peking University
- Tsinghua University
- University of Hong Kong
- University of Tokyo
Our Programs

• ISCN-GULF Sustainable Campus Charter
• Working Groups
• Conferences & Symposia
• Sustainable Campus Excellence Awards
ISCN-GULF Sustainable Campus Charter

- Developed in partnership with GULF (Global University Leaders Forum):
  - 26 heads of top universities worldwide, collaborating on significant global policy and helping to shape the agenda of the World Economic Forum.

- ISCN-GULF Sustainable Campus Charter:
  - Requires ratification at senior level of institution
  - Commits ISCN member university to annual reporting on goals, metrics, initiatives, and progress under three principles:
Working Groups

Open research teams who explore critical issues and facilitate the development of resources related to the three Charter principles:

WG-1. Buildings and their sustainable performance

WG-2. Campus-wide planning and target-setting

WG-3. Integration of research, teaching and facilities
Conferences & Symposia

- Annual events drawing ~70-90 participants
- Diverse geographical representation
- Intimate, work-oriented sessions
- Cutting-edge topics
- Leaders primarily from higher education, but also the corporate sector and policy sphere

Quotes from Past Attendees:

“The ISCN conference gives us the chance to discuss or even create the future profile of society and the role of the University from various viewpoints. In addition, I can now see a starting point to discuss sustainability both in the European and the Asian sense.” Hidetsugu Kobayashi, Hokkaido University

“Compared to similar networks, the size of the ISCN makes it easier to develop more meaningful connections rather than the seminar / presenter type of situation. The ISCN has also helped Brown University understand where our current sustainability initiatives are lacking and hopefully we can use the information gained here to inspire others at the university to understand the value of expanding our sustainability efforts.”

Christopher Powell, Brown University
Sustainable Campus Excellence Awards

Recognizes projects that demonstrate leadership, creativity, effectiveness and outstanding performance in four categories:

- **Buildings**
- **Campus**
- **Integration**
- **Student Leadership**
  
  *(in partnership with oikos international)*

Over 100 applications since 2009, winners to-date include:

- **Australia National University (Australia)**
- **Brown University (United States)**
- **Cornell University (United States)**
- **Ecole Polytechnique de Federale Lausanne (Switzerland)**
- **Leuphana University (Germany)**
- **King Abdullah University of Science and Technology (Saudi Arabia)**
- **University of Bradford (United Kingdom)**
- **University of Amsterdam (Netherlands)**
The Rationale for Reporting
Sustainability Reporting

If you don’t **measure**, you will not **manage**.

If you don’t **manage**, you will not **improve**!
What is a Sustainability Report?

A document describing the economic, social and environmental impacts caused by an organization through its every day activities.
Benefits to the Institution

- Identify **strengths and weaknesses**.
- Assess **risks and opportunities**.
- Develop a **mission & vision** for Sustainability.
- Raise **implementation** standards.
- Encourage multi-stakeholder **participation**.
- Improve **internal communication** and promote **creativity**.
- Differentiate strategy & build reputation as **innovator**.
- **Attract & retain** quality students and staff.
Among 12,000 college applicants surveyed by the Princeton Review in 2011, 69% of respondents said that information about a college's commitment to the environment (from academic offerings to practices concerning energy use, recycling, etc.) would impact their decision to apply to or attend a school.
Benefits to Society

• Institutions with integrity last longer and perform better.

• Greater communication between Institution & Society facilitates shared ideas.

• Build quality workforce and leaders who can address complex social, economic, and environmental concerns.
Organizational Commitment

- Get positive **participation** from all workforce;
- Identify most **relevant sustainability aspects** to include ("materiality");
- Use a structured approach (e.g. GRI sustainability reporting framework);
- Select **clear & realistic targets** to report;
- Develop a system to achieve agreed upon targets (i.e. management & methods);
- Report both successes and failures.
Organizational Commitment (continued)

- Manage expectations;
- Include subjects that help to ensure regulatory compliance;
- Provide accurate assessment / snapshot of reporting entity;
- Avoid “greenwashing”;
- Engage with key stakeholders;
- Collect, compile, and check important data;
- Publish a report that informs key stakeholders.
Charter Principles and Report Format
Charter Report Format

• Introductory Section
  – Title Page
  – Campus Overview
  – Contact Information

• Principle 1.
  – Management Approach
  – Main Initiatives & Results
  – Data Table

• Principle 2.
  – Management Approach
  – Main Initiatives & Results
  – Data Table

• Principle 3.
  – Management Approach
  – Main Initiatives & Results
  – Data Table
Intent of Charter Reports

• **Concise, executive summary** of strategic priorities, goals, and performance

• Promote objectives of:
  – **Transparency**
  – **Accountability**
  – **Best practice exchange**

• Annual public disclosure

• *Not intended as comprehensive, detailed sustainability report*

• *Not a rating or ranking scheme*
3 Charter Principles

• Charter Commitment:
  – Implement 3 principles
  – Set measurable targets
  – Report regularly on initiatives and performance:
Principle 1: To demonstrate respect for nature and society, sustainability considerations should be an integral part of planning, construction, renovation, and operation of buildings on campus.

A sustainable campus infrastructure is governed by respect for natural resources and social responsibility, and embraces the principle of a low carbon economy. Concrete goals embodied in individual buildings can include minimizing environmental impacts (such as energy and water consumption or waste), furthering equal access (such as nondiscrimination of the disabled), and optimizing the integration of the built and natural environments. To ensure buildings on campus can meet these goals in the long term, and in a flexible manner, useful processes include participatory planning (integrating end-users such as faculty, staff, and students) and life-cycle costing (taking into account future cost-savings from sustainable construction).

- Resource use
- Waste/recycling/emissions
- Research/IT facilities
- Building occupants/stakeholders
- Building design & construction
Principle 2 Topics

Principle 2: To ensure long-term sustainable campus development, campus-wide master planning and target-setting should include environmental and social goals.

Sustainable campus development needs to rely on forward-looking planning processes that consider the campus as a whole, and not just individual buildings. These processes can include comprehensive master planning with goals for impact management (for example, limiting use of land and other natural resources and protecting ecosystems), responsible operation (for example encouraging environmentally compatible transport modes and efficiently managing urban flows), and social integration (ensuring user diversity, creating indoor and outdoor spaces for social exchange and shared learning, and supporting ease of access to commerce and services). Such integrated planning can profit from including users and neighbors, and can be strengthened by organization-wide target setting (for example greenhouse gas emission goals). Existing low-carbon lifestyles and practices within individual campuses that foster sustainability, such as easy access for pedestrians, grey water recycling and low levels of resource use and waste generation, need to be identified, expanded and disseminated widely.

- Carbon/GHG Targets
- Master planning
- Transportation

- Food
- Social inclusion & protection
- Land-use & biodiversity
Principle 3: To align the organization’s core mission with sustainable development, facilities, research, and education should be linked to create a “living laboratory” for sustainability.

On a sustainable campus, the built environment, operational systems, research, scholarship, and education are linked as a “living laboratory” for sustainability. Users (such as students, faculty, and staff) have access to research, teaching, and learning opportunities on connections between environmental, social, and economic issues. Campus sustainability programs have concrete goals and can bring together campus residents with external partners, such as industry, government, or organized civil society. Beyond exploring a sustainable future in general, such programs can address issues pertinent to research and higher education (such as environmental impacts of research facilities, participatory teaching, or research that transcends disciplines). Institutional commitments (such as a sustainability policy) and dedicated resources (such as a person or team in the administration focused on this task) contribute to success.

- Topical integration/curriculum
- Social integration
- Research & education projects on labs/IT facilities
- Commitments & resources for campus sustainability
Title Page
Your University

Introduction
Describe the institution, its mission, key characteristics, and governance structure:

On the organization
- Name, size, location
- Regions/markets served
- Key activities/services
- Operational and governance structure
- Ownership/funding basis

On the report
- First or subsequent Charter report?
- Reporting period and boundary
- Combination with other sustainability report?

Contact Information
On Yale University

Yale University was founded in 1701 and is located in New Haven, Connecticut, in the North East corner of the United States, and has a global network of students and faculty. Approximately 11,416 students of all academic levels studied at Yale in academic year 2009/2010, just over 17% of which were international students. The remaining 83% were domestic studentsspanning all 50 US States, making Yale University a truly global institution of higher education with a market base in all regions of the US, and on all continents of the globe. The biggest international markets for Yale University are China, Canada, South Korea, India, Germany, and the UK.

The focus of Yale University is education and research, its mission is to create, preserve, and disseminate knowledge. It comprises of three major academic branches. The first is Yale College, which is the institution's Undergraduate component and had 5200 attendees in academic year 2009/10. The remaining 6,200 students who attended Yale University in 2009/10 were graduate students who study through the graduate school of Arts and Science, or at one of the 13 professional graduate schools that are located within the university campus. In addition to such a wide and diverse student body Yale University employs approximately 14,715 faculty, staff, and international scholars. The faculty account for approximately 3,600 of the University's employees, while an additional approximately 1,900 international scholars serve as researchers and educators. The students and faculty are joined by approximately 9,200 staff members who contribute to the University's mission.

Yale University is a private university and since 1792 it has been registered through the Connecticut legislature as 'the Yale Corporation'. The President oversees the organizational structure and nine Vice Presidents report directly to him, representing all the necessary functions required to operate a University of this particular stature. The President of Yale is Chairman and one of nineteen members of the Yale Corporation. The others are made up of a board ten Successor Trustees, who elect their own successors for up to two six-year terms; six Alumni Fellows, who are elected by the alumni for staggered six-year terms; and the Governor and Lieutenant Governor of the State of Connecticut, ex officio. The Corporation meets at least five times during the year and occasionally in special session. It has twelve standing committees, including the Institutional Policies Committee, the Educational Policy Committee, and the Buildings & Grounds Committee, which also meet regularly throughout the year.

As a privately owned university, Yale is financed mainly by its tuition fees and income from student attendance and through its endowment. The Yale endowment is overseen by the Investments Office and provides a significant percentage of the University's two billion plus US dollars operating income.
Management Approach

• Brief text describing:
  – How goals are set and measured,
  – Who is responsible within the organization

  – As it pertains to each of the three principles:

  – I.e. For principle 1, concerning the construction, renovation, and operations of individual buildings on campus.
Management Approach to Principle 1 Topics

EPFL was certified in 2006 under RUMBA, a system developed by the Swiss federal government as a framework for resource and environmental management. Its main objective is to continuously reduce the pollution load of products and government activities, while motivating employee sustainable behavior, reducing operating costs, and increasing efficiency.

Decision-making on aspects of infrastructure

The EPFL campus occupies a total area of 409,217 square meters, encompassing 66 buildings. As a member of the Swiss Federal government, the buildings used by EPFL are the property of the Swiss Confederation, however the government delegates decision-making and budget for construction, renovation, and operations to EPFL. Larger projects and those involving real estate investments must be approved by the Swiss Federal Council.

EPFL’s buildings are managed by the Real Estate and Infrastructure department, and the RUMBA program and all sustainability-related policies and procedures are managed by the sustainability coordinator, whose responsibilities include leading the development of program mission and objectives, supervising working group activities, and responding to the steering committee. The RUMBA program is governed by the RUMBA Committee, consisting of a cross-disciplinary group including senior administrators, operations staff, faculty, and students, whose responsibilities include developing indicators and updating the analysis of the school’s environmental impacts, and establishing and executing action plans with various departments.
Main Initiatives & Results

• (Optional) Brief text presenting:
  – Key focus areas,
  – Notable projects,
  – Achievements,
  – Program highlights, etc.

• Often a “first step” when quantitative performance data aren’t fully established

• Can be incorporated into data tables rather than text
Main Initiatives & Results: Example

Main initiatives

- Undergraduate and graduate multi-disciplinary concentrations and courses in environmental sciences and sustainability.
- University-wide Environmental Course Guide.
- Participatory learning opportunities, including student-led weatherization projects.
- Dedicated university-wide Office for Sustainability.
- Student Sustainability Grant Program.
- Sustainability Principles.
- Green Loan Fund, a $12 million revolving loan fund (www.green.harvard.edu/loan-fund), has funded over 200 projects with an average 27% return on investment.
- Green Office Program. As a result of this program, the number of employee green teams grew within 18 months from 17 to 118, engaging over 2,000 employees.
### Performance Data Table

<table>
<thead>
<tr>
<th>Topics</th>
<th>Goals and Initiatives</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Resource use</strong></td>
<td><strong>Indirect energy use</strong>&lt;br&gt;Electricity &amp; steam reported in GJ or kWh, and % reduction to previous year.</td>
<td><strong>Performance 2009</strong>&lt;br&gt;X GJ electricity use, corresponding to y% reduction compared to 2008.</td>
</tr>
<tr>
<td>Priority topics (with units of measurement)</td>
<td>Objectives and targets&lt;sup&gt;3&lt;/sup&gt; (for reporting year, for following year, and/or beyond)</td>
<td><strong>Performance 2010</strong>&lt;br&gt;X GJ steam use.</td>
</tr>
<tr>
<td><strong>Key initiatives</strong> (in reporting year, and/or planned for the following year or beyond)</td>
<td><strong>Performance 2009</strong>&lt;br&gt;A pledge campaign on lowering electricity use in dorm and laboratory buildings was rolled out to overall xxx undergraduate and graduate students. For all buildings constructed before 19xx, energy audits were conducted. Where a payback period of less than 5 years was found, insulation of walls and windows was improved.</td>
<td><strong>Performance 2010</strong>&lt;br&gt;X GJ steam use, in line with 2009 consumption.</td>
</tr>
</tbody>
</table>

Perfectly fine to state “in progress” or “to be developed over next year!”
# Performance Data Table: Example

<table>
<thead>
<tr>
<th>Topics</th>
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<tbody>
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<td><strong>Objectives and targets</strong> (for reporting year, for following year, and/or beyond)</td>
<td><strong>Key initiatives</strong> (in reporting year, and/or planned for the following year or beyond)</td>
</tr>
<tr>
<td><strong>Building design aspects</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Minimise total and conditioned GFA to be constructed</strong></td>
<td>To reduce amount of planned space for new construction and proportion of constructed conditioned space.</td>
<td>Space standards to be reviewed and reduced where possible for all new construction and proportion of constructed space that is dual mode or non-conditioned to be increased.</td>
</tr>
<tr>
<td><strong>Sustainable building standards applied and explored</strong></td>
<td>To achieve 25% energy savings for new buildings and 15% for existing buildings by 2020.</td>
<td>All new buildings to be designed to meet the minimum Green Mark (GM) standard.</td>
</tr>
</tbody>
</table>
2012 Reporting Timeline

GULF Meeting @ World Economic Forum

Deadline for inclusion in GULF Mtg.

General Reporting Deadline

Jan 18, 2012

Jan 25-29, 2012

Feb

Mar

Apr 15, 2012
Sustainability Survey Fatigue!

SIERRA

THE COLLEGE SUSTAINABILITY REPORT CARD

The Princeton Review's
GUIDE TO 286 GREEN COLLEGES
Presented in partnership with the U.S. Green Building Council

The STARS Program
AASHE's Sustainability Tracking, Assessment & Rating System
stars.aashe.org

KAPLAN COLLEGE GUIDE 2009
Get Started on the Path to Success!
390 colleges & 35 hot fields
What is the overlap between reporting programs?
## ISCN Principle 1: Buildings & Their Sustainability Impacts

### Resource Use

<table>
<thead>
<tr>
<th>ISCN Topic</th>
<th>Options for Target Topics (Metrics)</th>
<th>GRI Indicators</th>
<th>STARS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Energy use (per floor area or total), possibly per type of building</td>
<td>EN3: Direct energy consumption</td>
<td>OP7: Building energy consumption</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN4: Indirect energy consumption</td>
<td>OP8: Clean &amp; renewable energy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN5: Energy saved by conservation</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>EN7: Indirect energy conservation results</td>
<td></td>
</tr>
</tbody>
</table>
ETH Zurich

- **Combined:**
  - ISCN-GULF Sustainable Campus Charter Report and GRI B-Level Report

- ISCN Report serves as “Executive Summary” for longer, more detailed GRI report
# ETH Zurich - ISCN Table

<table>
<thead>
<tr>
<th>Topics</th>
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<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Priority topics</strong> (with metrics/ units)</td>
<td><strong>Objectives and targets</strong> (with time frame)</td>
<td><strong>Performance 2009</strong></td>
</tr>
<tr>
<td><strong>Resource use</strong></td>
<td><strong>Direct and indirect energy use</strong> (in % of use in targeted building complexes)</td>
<td><strong>Performance 2010</strong></td>
</tr>
<tr>
<td><strong>Renewable energy use</strong> (in % of electricity use)</td>
<td><strong>Increase proportion of renewable energy sources to 1% of total electricity consumption by 2010</strong></td>
<td><strong>Overall direct energy use (natural gas, oil): 49,000 MWh Overall indirect energy use (electricity, district heating): 123,000 MWh Chance of energy use in targeted building complexes compared to previous year: 5-10%</strong></td>
</tr>
<tr>
<td><strong>Direct and indirect energy use</strong> (in % of use in targeted building complexes)</td>
<td><strong>Use Energy to optimize operational efficiency in the ETL, FEL, FLA and HPM buildings. Increase energy efficiency by optimizing cooling equipment and upgrading lighting</strong></td>
<td><strong>Overall direct energy use (natural gas, oil): 49,000 MWh Overall indirect energy use (electricity, district heating): 123,000 MWh Chance of energy use in targeted building complexes compared to previous year: 5-10%</strong></td>
</tr>
<tr>
<td><strong>Renewable energy use</strong> (in % of electricity use)</td>
<td><strong>Energy supply to new buildings in Science City to use certified EWZ green electricity “ewz. wassertop”, from 100 % renewable energy sources</strong></td>
<td><strong>Proportion of renewables based electricity: 100% (based on certificates)</strong></td>
</tr>
<tr>
<td><strong>Renewable energy use</strong> (in % of electricity use)</td>
<td><strong>Increase proportion of renewable energy sources to 1% of total electricity consumption by 2010</strong></td>
<td><strong>100% (based on certificates) until end of 2010, not continued due to new and emission based strategy.</strong></td>
</tr>
</tbody>
</table>
Cross-referencing GRI indicators and ISCN report content

<table>
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<th>Pages</th>
<th>GRI content elements</th>
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<td>ISCN-GULF Summary Charter Report</td>
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<td>Introduction and Profile</td>
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<td>EN2-EN5, EN20, EN22</td>
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<tr>
<td>Principle 2</td>
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<tr>
<td>Principle 3</td>
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<tr>
<td>Research and Education</td>
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<tr>
<td>Students, Faculty and Staff</td>
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<td>LA1, LA2, LA7, LA11-LA13, PR5, PR8</td>
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<td>Facilities and Environment</td>
<td>31-36</td>
<td>EN1-EN5, EN16-EN18, EN20, EN22</td>
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<td>4.12</td>
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<tr>
<td>Imprint and contacts</td>
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<td>2.1, 2.4, 3.4</td>
</tr>
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</table>

A complete GRI Index with additional information on certain GRI indicators is available on the ETH website ([www.sustainability.ethz.ch](http://www.sustainability.ethz.ch))
Next Steps

• Start working on your draft reports / updating from last year
• Contact secretariat@isc-network.org with any questions or if you’d like assistance
• Stay tuned for more resources:
  – ISCN Members-Only Listserv
  – Digest summaries of first round of Charter reports
• Join us for the 2012 ISCN Symposium in June!
Question and Answer Session
Contact Us:

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secretariat@isc-network.org
http://www.international-sustainable-campus-network.org/