

INSTITUTE FOR SUSTAINABLE FUTURES

# ANNUAL SUSTAINABILITY REPORT 2010

THINK.  
CHANGE.  
DO



UNIVERSITY OF  
TECHNOLOGY SYDNEY



Institute for  
Sustainable  
Futures

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# STATEMENT FROM THE DIRECTOR

## Welcome to our 2010 annual sustainability report.

Sustainability is our core business and embraces both the work we produce for our clients and the way we manage our internal operations. Our staff are personally committed and passionate about sustainability and our stakeholders expect us to set an example.

We understand sustainability to be "*meeting the needs of the present generation without compromising the ability of future generations to meet their needs*" in accordance with the 1987 Brundtland definition of sustainability.\*

Our impact on economic, social and environmental sustainability principally occurs through the application of our research by our clients, the dissemination of our research findings through publications, the professional development we facilitate and changes in attitudes through media exposure and public forums.

As a Research Strength of the University of Technology, Sydney, our work aligns closely with the UTS objective to "*advance research that contributes economic, social, cultural and environmental benefits to society*" and its aim to "*be internationally renowned for outcomes-oriented research*". We play a significant part in meeting the University's key performance indicators, in particular through the industry funded research income we earn, our higher degree completions and our peer reviewed publications.

A list of projects we worked on during 2010 is included in Appendix 1. We provided independent research to a range of clients across out ten major research areas. Our projects for state and federal government clients help to develop policy that supports sustainable development. We work with industry groups and corporations to create and implement sustainable strategies and operations and we assist community groups to provide solid research to support their actions.

The Institute grew in 2010 with 12 new staff, including 5 new research assistants joining during the year. Our postgraduate program expanded in 2010 with 8 new students joining the 19 students who were part way through their studies in 2010. Four students graduated from our PhD program in 2010: Dana Cordell, Chris Reardon, Tanzi Smith and Suzanne Grob. (see Appendix 4 for details)

In 2010 our publications included 6 book chapters, 14 peer reviewed journal articles and 15 peer reviewed conference papers. (See list in Appendix 2)

We have established ongoing monitoring of our energy and water consumption and this allows us to take corrective action as needed during the year. Our energy consumption reduced by 8% in 2010 but our water consumption was 5% higher than it was in 2009.

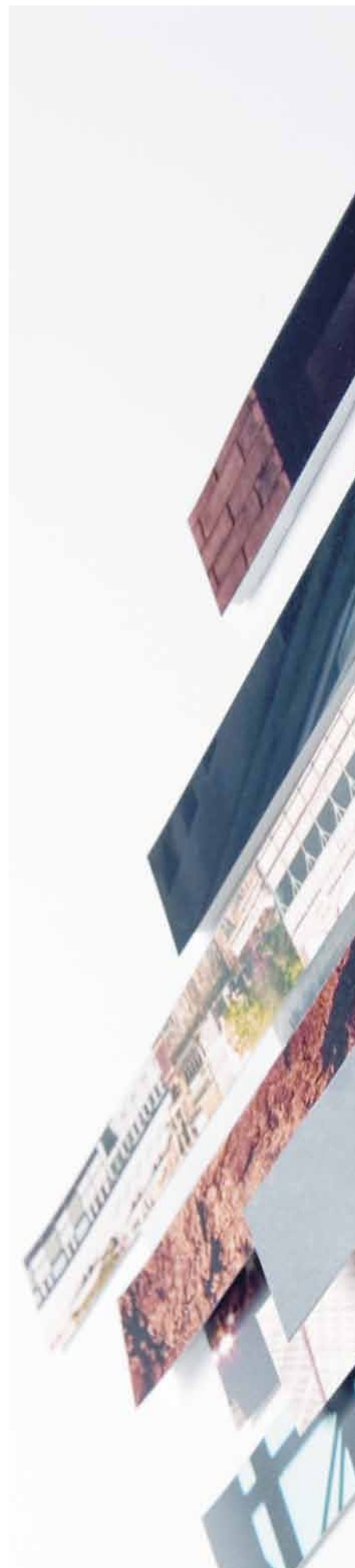
The year ahead is likely to be as challenging as the one just ended. We need to work hard to diversify our income and match people to projects. We need to maintain the balance between employing enough researchers with the right skills across our research areas to undertake our work, and getting enough work to cover the costs of these staff.

We will continue to manage the risks associated with relying on winning contracts to earn income, our commitment to innovation and the need to run our office sustainably by budgeting conservatively and monitoring our finances carefully throughout the year.

Our achievements in creating change towards sustainable futures are the result of the collective efforts of all the people we work with. We look forward to continuing to meet future challenges in partnership with our clients, our university colleagues and other stakeholders. We thank you for your continued support.



Professor Stuart White  
Director



\* The Report of the Brundtland Commission on Environment and Development, Our Common Future, was published by Oxford University Press in 1987. ISBN 0-19-282080-X

# ORGANISATIONAL PROFILE

## 2.1 Name of the organisation

Institute for Sustainable Futures (ISF)

## 2.2 Primary brands, products and/or services

Our researchers and support staff produce independent, project-based research that creates change towards sustainable futures for government, industry and community clients across Australia and internationally.

## 2.3 Operational structure of the organisation

The Institute for Sustainable Futures is a research institute of the University of Technology, Sydney which was established by the University of Technology, Sydney Act 1989, New South Wales (ABN 77 257 686 961).

ISF has no divisions, operating companies, subsidiaries or joint ventures. We organise our work around our 10 main research areas namely: Cities and Buildings; Corporate Sustainability; Energy and Climate Change; International Development; Local Government; Natural Resources and Ecosystems; Resource Futures; Social Dimensions of Sustainability; Transport; and Water and Sanitation. Researchers work within and across these areas depending on their skills, experience and interests.

## 2.4 Location of organisation's headquarters

The Institute is located on Level 11 of Building 10 on the Broadway Campus of the University of Technology which is at 235 Jones Street, Broadway, New South Wales.

## 2.5 Countries where the organisation operates

Whilst the Institute is based in Sydney, during 2010 our researchers worked on projects located in all Australian mainland states.

Institute staff also worked on projects in the Solomon Islands, Vietnam and Egypt in 2010.

International clients included Greenpeace International and the APEC International Centre for Sustainable Tourism.

Institute researchers spoke at several international conferences during 2010.

## 2.6 Nature of ownership and legal form

The Institute for Sustainable Futures is a research institute of the University of Technology, Sydney which was established by the University of Technology, Sydney Act 1989, New South Wales (ABN 77 257 686 961).

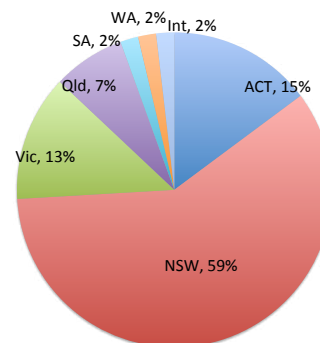
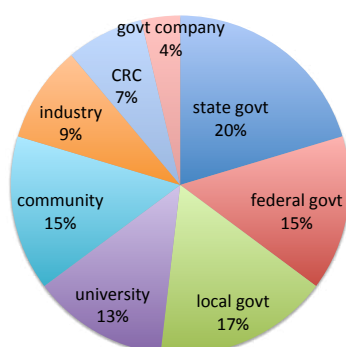
As an Institute located within the UTS Research Division with the same status as a Faculty, some of our income and expenditure (in particular, part of our operating costs), is subsumed into the University's accounts. The University provides some funds to ISF every year to cover the costs of activities such as our postgraduate program, academic publications, and support for National Competitive Grant research projects.

## 2.7 Markets served by the organisation

An analysis of our 2010 clients found 59% were located in NSW; 15% in ACT, 13% in Victoria, 7% in Queensland, 2% in Western Australia, 2% in South Australia and 2% were international organizations.

An analysis by type of client found: 15% were federal government agencies, 20% state government, 13% were universities, 15% community organization, 9% industry organizations, 4% government companies, 7% were Cooperative Research Councils and 17% local government.

Clients by type and location



## 2.8 Scale of the organisation

During 2010 the Institute had 53 full and part time staff, 22 students, 2 Adjunct Professors and 6 Associates working on contract research and research grant projects worth over \$5.27m. Ten years ago, we had 14 staff, 8 students and worked on \$0.7m worth of contract research projects.

In 2010 our researchers wrote 6 book chapters; 14 journal articles; 19 conference papers; and 14 publicly available project reports.

The Institute's research featured in the following media in 2010: 96 print media stories; 44 radio interviews; 4 television interviews; and 19 online news stories.

The Institute was involved in hosting and/or speaking at 4 public events in 2010

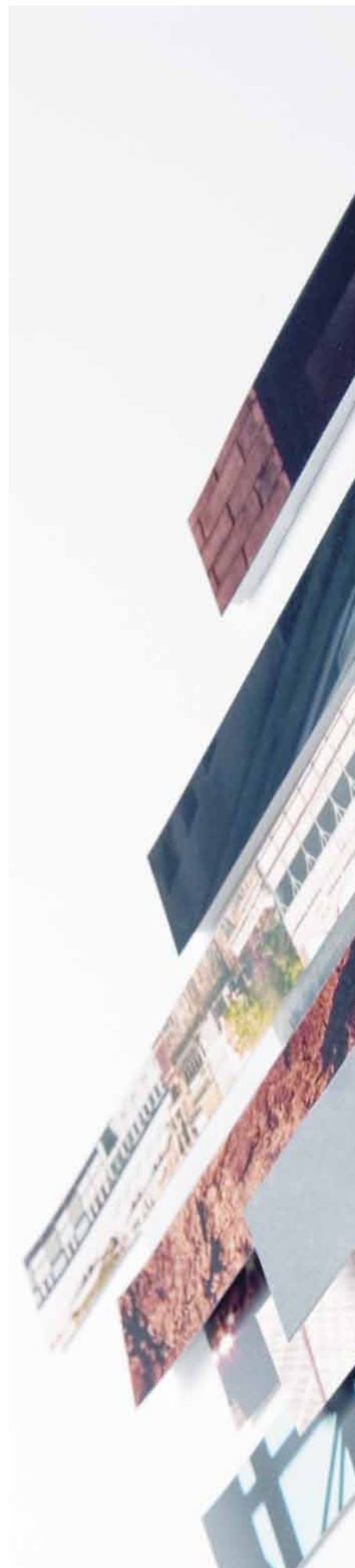
## 2.9 Significant changes during the reporting period

The Institute's total research income increased by 38% in 2010, 12 new staff joined and one staff member moved on to further study. Student numbers increased by 8 in 2010.

## 2.10 Awards received

Professor Cynthia Mitchell was honoured in the Urban and Industrial Water category of the WME 2010 Leaders List.

The judging panel of the International Association for Public Participation's 2010 Core Value Awards selected 'World Wide Views on Global Warming' as a project worthy of a Highly Commended award in the Robust Public Participation Process category. The Australian component of this event was hosted by the University of Technology Sydney (UTS) and managed by Institute for Sustainable Futures (ISF).



# GOVERNANCE, COMMITMENTS AND ENGAGEMENT

## **4.1 Governance structure of the organisation**

The Institute's Director reports to the University's Deputy Vice-Chancellor (Research).

In 2010 an Institute Steering Group comprising all Research Directors, the Director and the Institute Manager supported the Director and Institute Manager in strategic decision making for the organisation.

## **4.2 Indicate whether the Chair of the highest governance body is also an executive officer**

The Institute does not have a board of directors. The Institute Manager chairs the Institute Steering Group and was responsible for overseeing the implementation of ISG's decisions during 2010. The Institute Manager is accountable for the management and ongoing strategic development of a high quality and resource efficient support infrastructure to support the Institute's work. The Institute Manager is a member of the Institute's Steering Group and as such participates in the key decision making processes of the Institute.

## **4.3 For organizations that have a unitary board structure, state the number of members of the highest governance body who are independent and/or non-executive members.**

Not applicable

## **4.4 Mechanisms for shareholders and employees to provide recommendations or direction to the highest governance body.**

In 2010 the Institute was governed by an Institute Steering Group comprised of Research Directors, the Institute Manager and the Director. All employees could submit agenda items for this group that met monthly to make decisions on policies, staffing, resource allocation and strategy.

We also hold regular staff meetings every six weeks where employees and students share information and contribute to decisions on strategic and operational issues that affect the Institute as a whole including decisions relating to workplace sustainability and EHS issues. Employees also play a key role in setting the priorities and direction for the Institute at annual planning days and annual review days. Regular meetings with supervisors also provide an opportunity for employees to provide suggestions and recommendations to management.

Decisions on specific research projects are made at project meetings attended by those working on that project including Project Directors who take overall responsibility for the project and Project Managers who take responsibility for managing the project and its budget.



# REPORT PARAMETERS

## 3.1 Reporting period

Information in this report relates to the 2010 calendar year.

## 3.2 Date of most recent previous report

The most recent previous report was the 2009 report published in September 2010.

## 3.3 Reporting cycle

Annual

## 3.4 Contact point for questions regarding the report or its contents.

Lucy.Hall@uts.edu.au

## 3.5 Process for defining report content

The content for this report was defined by an internal GRI working group in 2006 comprising the Institute's Director, research staff experienced in corporate reporting and an admin staff member. This group was guided by the Institute's organisational objectives in determining materiality, priority of topics within the report and identifying the stakeholders that the organisation expects to use the report. The Institute Manager and Director are given the opportunity to review each year's GRI report before it is published.

## 3.6 Boundary of the report

The Institute is a single entity with no divisions, subsidiaries or joint ventures. Whilst we apply due diligence, we do not take responsibility for reporting on the activities of our partners or suppliers.

## 3.7 State any specific limitations on the scope or boundary of the report.

There are no specific limitations on the scope or boundary of the report. We used the best data measurement techniques available to us at the time but encountered some difficulties measuring our environmental impact in some areas.

## 3.8 Basis for reporting on joint ventures, subsidiaries, leased facilities, outsourced operations and other entities

The Institute is a single entity with no divisions, subsidiaries or joint ventures. Whilst we apply due diligence, we do not take responsibility for reporting on the activities of our partners or suppliers. There are no specific limitations on the scope or boundary of the report. We used the best data measurement techniques available to us at the time but encountered some difficulties measuring our environmental impact in some areas.

## 3.10 Explanation of the effect of any re-statements of information provided in earlier reports,

There are no re-statements in this report of information provided in earlier reports.

## 3.11 Significant changes from previous reporting periods in the scope, boundary or measurement methods applied in the report.

The following appendices have been added to this year's report:

Appendix 1 - projects completed in 2010

Appendix 2 - publications

Appendix 3 - media coverage

Appendix 4 - postgraduate researchers



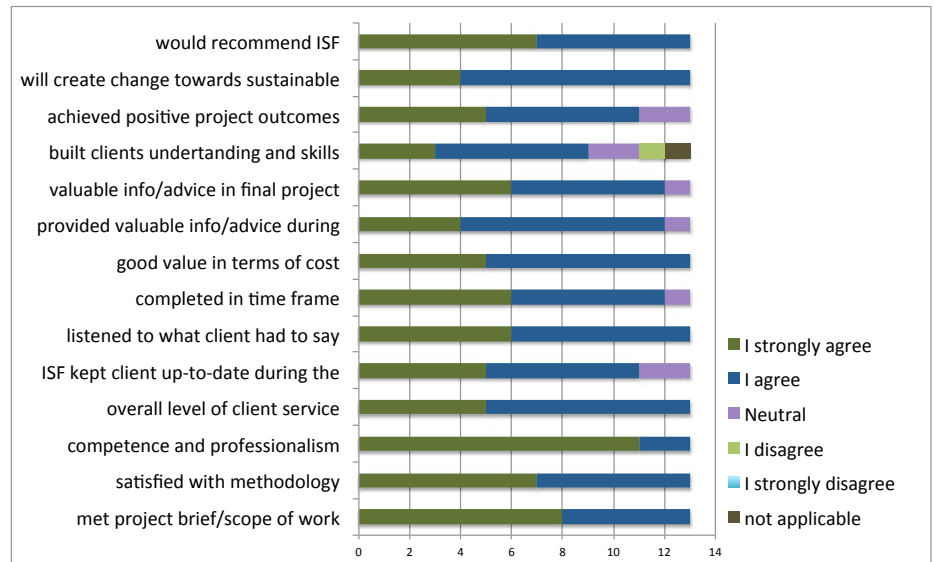
# STAKEHOLDERS

## 4.14 List of stakeholder groups engaged by the organization.

We create change towards sustainable futures by working closely with many stakeholder groups including:

- > Industry, community, government and individual clients – who are engaged through dialogue during the course of research projects and through an annual client survey.

Client survey results



- > Media – through media releases and responding to regular requests to provide expert comment on sustainability issues. In 2010 this generated: 96 print media stories; 44 radio interviews; 4 television interviews; and 19 online news stories mentioning ISF.
- > Employees: at weekly Operations meetings, regular meetings with supervisors, Wednesday Wrap meetings every six week, and annual planning and review days.
- > Postgraduate research students – through regular meetings with supervisors, Groups for Accountability and Support (peer group support); fortnightly postgraduate meetings, and an annual retreat.
- > UTS Environmental Sustainability Initiative: through membership of the steering committee and working groups.
- > Our Director meets monthly with the UTS Deputy Vice-Chancellor (Research) and Directors of other UTS research institutes on a regular basis.
- > We engage with our peers at national and international conferences.

We produce a monthly newsletter that is sent to over 700 stakeholders, hold occasional events that are open to the public, undertake other speaking engagements, and keep our stakeholders up to date through the news and events sections of our web site.

## 4.15 Basis for identification and selection of stakeholders with whom to engage.

We identified these stakeholders as the key people we engage with in our day-to-day work to accomplish our mission to create change towards sustainable futures.

# DATA ON PERFORMANCE

## Materials used by volume (EN1) and percentage of materials used that are recycled input materials (EN2)

### Performance

We purchased 182,000 sheets of paper in 2010 a decrease of 17% on the 219,000 sheets purchased in 2009).

Sheets of paper purchased per person was 3,500 in 2010 compared to 4,563 in 2009, a decrease of 23%.

### Comments

- > We purchase Australian paper which has an 80% recycled content.
- > We use duplex printing as default to minimize the amount of paper we use and often deliver our reports electronically to reduce printing.
- > We recycle our printer toner cartridges via Cartridge Rescue.
- > Our cleaners use natural biodegradable cleaning products made from citrus by-products (waste orange peel, pip and pulp).

## Indirect energy consumption by primary source(EN4) and initiatives to reduce indirect energy consumption and reductions achieved. (EN7) Total direct and indirect greenhouse gas emissions by weight. (EN16)

### Performance

Our energy consumption reduced by 8% in 2010. Energy consumption in 2010 was 62.58 kWh/m<sup>2</sup>/year and 67.69 in 2009.

This represents GHG emissions of 62.58 kg/CO<sub>2</sub>e/m<sup>2</sup>/year in 2010 and 67.69 in 2009. (Targets that we set in 2005 were 83 kWh/m<sup>2</sup>/year and 25 kg/CO<sub>2</sub>e/m<sup>2</sup>/year)

Total kilometres travelled by air in 2010 was 685,913 which was a 1% increase in the 2009 figure of 678,446. The GHG impact for our 2010 air travel was 175.20 tonnes. We reported a GHG impact of 205.50 tonnes in 2009. The apparent decrease of 15% in GHG impact is due to changes in the calculation methodology used by the Climate Friendly flight calculator that we use.

### Comments

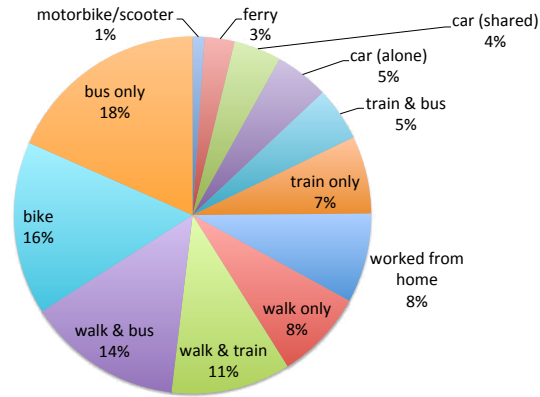
- > We take monthly meter readings to measure the electricity used for lighting and the electricity used via power sockets. The meter readings do not include power used for air conditioning.
- > We buy offsets for the amount of CO<sub>2</sub> we are responsible for producing each year.
- > We appoint a different staff member each week to be 'energy monitor' for the week. They check meter readings for the week and report on any unusual readings. They also check for any computer monitors left on.
- > Our office is easy to access by public transport being close to Central Station and Railway Square.
- > The Institute does not have permanent car parking spaces reserved for staff nor do we have company cars for senior staff.
- > Secure bike racks with 24 hour video surveillance as well as changing rooms, showers and secure lockers are available for cyclists.
- > As we work on projects across Australia and overseas we are responsible for GHG emissions generated by our taxi and air travel to meet clients and attend conferences. Where practical we use phone and video conferencing to minimize such travel.





### Employee commuting

The strategic location of our office in the city close to Central and Railway Square encourages the use of public transport, cycling and walking and discourages the use of cars. A survey of our staff and students undertaken in 2010 found most travelled to work by public transport or bicycle.



### Total water withdrawal by source (EN8)

#### Performance

Water consumption data for 2010 shows we used 1.08 kL/person/a

This is 5% higher than the consumption figure for 2009 but 32% lower than our target of 1.6kL/person/a.

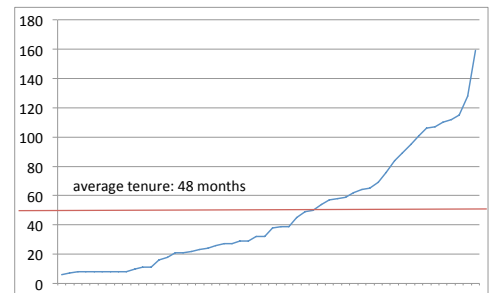
#### Comments

- > We take monthly meter readings to measure the water used in both female and male bathrooms. The meter readings do not include water used for air conditioning. We do not have a separate meter reading for water used in our kitchen.
- > Our new web based meter monitoring service allows us to identify and then report leaks more quickly which should reduce our water consumption in the future.

### Total number and rate of employee turnover by age group, gender & region. (LA2)

#### Performance

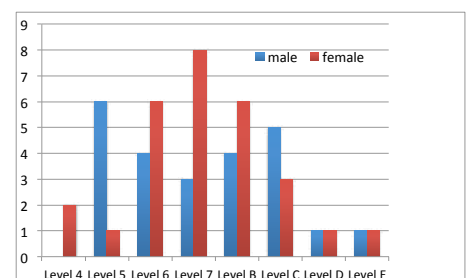
In 2010, a total of 53 part time and full time staff worked at the Institute for part or all of the year with 12 new staff joining and one staff member leaving during the course of the year. Average tenure at December 2010 was 48 months (same as 2009)



We use the University's recruitment process whereby staff vacancies are advertised locally. A gender balanced selection committee reads all applications and shortlists candidates to be interviewed by reviewing their application against the selection criteria for the position. A wider range of Institute staff then meet interviewed candidates during an interactive process and their feedback helps the selection committee make their final decision on who to appoint.

The proportion of early career researchers working at the Institute is higher than that of the university generally which faces an ageing of its research academic profile. The average age of ISF research staff in 2010 was 36 years of age.

The gender profile of Institute staff approximates that of UTS as 54% of our staff are women and women constituted 57% general staff at UTS in 2009. Representation of women in academic roles at UTS was greater than 41% in 2009. In 2010, 50% of ISF staff at academic levels (B, C, D & E) were women.



**Percentage of employees covered by collective bargaining agreements (LA4),  
percentage of employees receiving regular performance and development reviews  
(LA12)**

**Performance**

All UTS staff are covered by collective bargaining agreements. All ISF staff receive an Annual Performance Review that includes both a review of the last 12 months, and work planning for the coming 12 months. Development needs are also agreed to during this Review. Principles for performance reviews can be found at:

<http://www.hru.uts.edu.au/performance/principles.html>

**Comments**

UTS workplace conditions are set out in the collective agreements for support staff, academic staff and the senior staff group as well as the policies, guidelines and procedures set out in the HR Manual. These agreements can be viewed at:

<http://www.hru.uts.edu.au/manual/2ea/index.html>



# GRI CONTENT INDEX

Table identifying the location of Standard Disclosures in the report

## **Strategy and analysis**

- 1.1 statement from the most senior decision maker

## **Organisational Profile**

- 2.1 name of the organisation
- 2.2 primary brands, products and/or services
- 2.3 operational structure of the organisation
- 2.4 location of organisation's headquarters
- 2.5 number of countries where the organisation operates
- 2.6 nature of ownership and legal form
- 2.7 markets served by the organisation
- 2.8 scale of the reporting organisation
- 2.9 significant changes during the reporting period
- 2.10 awards received in the reporting period

## **Report parameters**

- 3.1 reporting period
- 3.2 date of most recent previous report
- 3.3 reporting cycle
- 3.4 contact point for questions
- 3.5 process for defining report content
- 3.6 boundary of the report
- 3.7 any specific limitations on the scope or boundary of the report
- 3.8 basis for reporting on joint ventures
- 3.10 explanation of the effect of any re-statements
- 3.11 significant changes from previous reporting period
- 3.12 GRI content index

## **Governance, commitments and engagement**

- 4.1 governance structure of the organisation
- 4.2 indicate whether the chair of the highest governance body is also CEO
- 4.3 number of board members who are independent and/or non executive
- 4.4 mechanisms for shareholders and employees to provide recommendations to board
- 4.14 list of stakeholders engaged by the organisation
- 4.15 basis for identification and selection of stakeholders with whom to engage

## **GRI performance indicators**

- EN1 materials used by weight or volume
- EN2 percentage of materials used that are recycled input materials
- EN4 indirect energy consumption (electricity) by primary source
- EN7 initiatives to reduce indirect energy consumption and reductions achieved
- EN16 Total direct and indirect greenhouse gas emissions by weight
- EN8 total water withdrawal by source
- LA2 total number and rate of employee turnover by age group, gender and region
- LA4 percentage of employees covered by collective bargaining agreements
- LA12 percentage of employees receiving regular performance and development reviews

# APPENDIX 1: PROJECTS

During 2010 Institute researchers worked on the following projects.  
Descriptions of each project can be found on our web site at: <http://www.isf.uts.edu.au>

## **Assessment of opportunities to develop a market for polypropylene textiles**

Client: Kimberly-Clark Australia

## **Australian Electricity Generation Costs**

Client: Greenpeace Australia-Pacific

## **Carbon calculator for event managers**

Client: Australian Centre for Event Management

## **Carbon capture and storage in perspective: an Australian case study**

Client: Greenpeace Australia-Pacific

## **The carbon pollution reduction scheme and farm animal welfare**

Funded by: Voiceless

## **Changing household behaviour on climate change in Queensland**

Client: Queensland Department of Environment and Resource Management

## **Cities and climate change**

Client: Australian Council of Capital City Lord Mayors

## **Civil Society WASH Fund Panel**

Client: AusAID

## **Clean technology applications in tourism accommodation**

Client: Sustainable Tourism Cooperative Research Centre

## **Close to Home: Potential benefits of decentralised energy for NSW electricity consumers**

Client: City of Sydney

## **Community attitudes to in-situ retention of contaminants**

Funded by: Cooperative Research Centre for Contamination Assessment and Remediation of the Environment

## **Distribution network pricing determination submission**

Client: City of Sydney

## **Effective community based tourism**

Client: Sustainable Tourism Cooperative Research Center

## **Electric vehicle travel calculator**

Client: NSW Department of Environment and Climate Change

## **Energy efficiency in the National Energy Market**

Client: Department of Climate Change and Energy Efficiency

## **Evaluation of World Vision Australia's advocacy campaigns**

Client: World Vision

## **Green lease training**

Client: State Property Authority

## **Greenhouse gas reduction target**

Client: Australian Technology Network

## **Harold Park redevelopment: A sustainability framework**

Client: DBL Property

## **Home based sex services policy research**

Client: City of Sydney

## **Impact of building energy efficiency on investment in energy infrastructure**

Client: Australian Department of Climate Change and Energy Efficiency

## **Incorporating active living principles into plan-making: a case study of the Newleaf Bonnyrigg public housing redevelopment**

Client: Premiers Council for Active Living (PCAL)





**Independent review of coal mine risks**

Client: Total Environment Centre

**Integrated resource planning for urban water**

Client: National Water Commission

**The labour market for electricians and training needs in the green economy**

Clients: Electrical Trades Union and the National Electrical and Communications Association

**Plug in Hybrid Electric Vehicles (PHEV)**

Client: Department of Environment and Climate Change NSW

**Policy options for developing demand management in Australia**

New South Wales Department of Environment & Climate Change

**Quality assurance for Philippines Australia Sustainability Program**

Partner for: Cardno ACIL

**Rebound effects in residential heating and cooling improvements**

Client: NSW Department of Environment, Climate Change and Water

**Refocussing the SIG RAMSI People's Survey**

Client: AusAID

**Renewable energy options**

Client: University of Technology, Sydney

**Revitalising Central Dandenong – making the case for a trigeneration facility**

Client: VicUrban

**Sale and lease processes for residential buildings**

Client: Department of Environment, Water Heritage and the Arts

**Strategic thinking in leadership**

Client: Centre for Community Welfare Training in Sydney

**Sustainable water strategy**

Client: Central Highlands Regional Water Authority

**Sustainability Action Plan**

Client: Hawkesbury City Council

**Trigeneration planning for UTS**

Client: University of Technology, Sydney

**Waste education community focus groups**

Client: Kogarah Municipal Council

**WasteNot: streamline resource exchange tool**

Clients: Auburn City Council and Parramatta City Council

**Water Park precinct**

Client: Western Sydney Parklands Trust

**Wind power and renewables forum**

Client: Leichhardt Municipal Council

**Wind site assessments - feasibility of distributed wind energy**

Client: Waverley Council

**Your Home fact sheet review**

Client: Department of Climate Change and Energy Efficiency

## APPENDIX 2: PUBLICATIONS

### Book chapters (6)

Abey Suriya, K.R., Mitchell, C.A. & Willetts, J.R. 2010, 'Urban sanitation through the lens of Thomas Kuhn' in J.R. McNeill, J.A. Padua and M. Rangarajan (eds), *Environmental History: As if Nature Existed*, Oxford University Press, New Delhi, India, pp. 65-84.

Boydell, S., Giurco, D., Rickwood, P., Glazebrook, G.J., Zeibots, M.E. & White, S. 2010, 'Using an integrated assessment model for urban development to respond to climate change in cities' in Bose, R. (eds), *Energy Efficient Cities: Assessment tools and benchmarking practices*, The International Bank for Reconstruction and Development / The World Bank, Washington, DC, USA, pp. 65-91.

Cusack, C.M. & Prior, J. 2010, 'Religion, sexuality and retribution: placing the other in Sydney' in Cusack, C. and Hartney, C. (eds), *Religion and Retribution logc: Essays in Honour of Professor Garry W. Trompf*, Brill, Leiden, The Netherlands, pp. 347-368.

Prior, J. & Cusack, C.M. 2010, 'Ritual, liminality and transformation: secular spirituality in Sydney's gay bathhouses' in Hunt, S. (eds), *New Religions and Spiritualities*, Ashgate, Surrey, UK, pp. 271-281.

Retamal, M.L., Turner, A.J. & White, S. 2010, 'The water-energy-climate nexus: systems thinking and virtuous circles' in Howe, C., Smith, J. and Henderson, J. (eds), *Climate Change and Water: International perspectives on mitigation and adaptation*, American Water Works Association and IWA Publishing, Denver, USA and London, UK, pp. 99-109.

Riedy, C. & Daly, J.G. 2010, 'Targeting a low-carbon university: a greenhouse gas reduction target for the Australian Technology Network of Universities' in Leal Filho, Walter (eds), *Universities and Climate Change*, Springer, Hamburg, pp. 151-162.

### Journal articles (14)

Boyle, C., Mudd, G.M., Mihelcic, J.R., Anastas, P., Collins, T., Culligan, P., Edwards, M., Gabe, J., Gallagher, P., Handy, S., Kao, J., Krumdieck, S., Lyles, L.D., Mason, I., McDowall, R., Pearce, A., Riedy, C., Russell, J., Schnoor, J., Trotz, M., Venables, R., Zimmerman, J.B., Fuchs, V., Miller, S., Page, S. & Reeder-Emery, K. 2010, 'Delivering sustainable infrastructure that supports the urban built environment', *Environmental Science & Technology*, vol. 44, no. 13, pp. 4836-4840.

Cordell, D.J. & White, S. 2010, 'Securing a sustainable phosphorus future for Australia', *Farm Policy Journal*, vol. 7, no. 3, pp. 1-18.

Elser, J.J. & White, S. 2010, 'Peak Phosphorus', *Foreign Policy*, vol. April 2010, no. 178.

Fane, S.A. & Turner, A.J. 2010, 'Integrated water resource planning in the context of climate uncertainty', *Water Science and Technology: Water Supply*, vol. 10, no. 4, pp. 487-494.

Giurco, D., White, S. & Stewart, R.A. 2010, 'Smart metering and water end-use data: conservation benefits and privacy risks', *Water*, vol. 2, no. 3, pp. 461-467.

Herriman, J. & Partridge, E.Y. 2010, 'Education activities for environment and sustainability: A snapshot of eight New South Wales councils', *Commonwealth Journal of Local Governance*, vol. 6, no. 1, pp. 77-89.

Paddon, M., Pillora, S. & Herriman, J. 2010, 'Mission unaccomplished: the drive for sustainability', *Government News*, vol. 38, no. 1, pp. 20-21.

Prior, J. & Herriman, J. 2010, 'The emergence of community strategic planning in New South Wales, Australia: influences, challenges and opportunities', *Commonwealth Journal of Local Governance*, vol. 7, no. November 2010, pp. 1-33.

Prior, J. & Cusack, C.M. 2010, 'Spiritual dimensions of self-transformation in Sydney's gay bathhouses', *Journal of Homosexuality*, vol. 57, no. 1, pp. 71-97.

Retamal, M.L. & Turner, A.J. 2010, 'Unpacking the energy implications of distributed water infrastructure: how are rainwater systems performing', *Water Science and Technology: Water Supply*, vol. 10, no. 4, pp. 546-553.

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## APPENDIX 3: MEDIA COVERAGE

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Australian Geographic, 16 December 2010

Academics bag roo cull  
Queensland Country Life, 16 December 2010, p14.

An element of concern: phosphorus, food and our future  
Science News, 16 December 2010

Television interview with Chris Riedy on voluntary carbon market  
Channel 7, Adelaide, Today Tonight, 14 December 2010, 6.45pm.

Rain sets scene for roo bonanza: long grass likely to disguise mob numbers  
Sunday Canberra Times, 12 December 2010, p17.

Clover's got the power  
Sydney City News, 9 December 2010, p4 and Alternative Media Group of Australia,  
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When the dam breaks  
Newcastle Herald, 4 December 2010, p4.

There's no immediate Hunter water crisis  
Newcastle Herald, 4 December 2010, p20.

City power upgrade slammed  
Sydney Morning Herald, 3 December 2010, p4.

Mayor unveils energy scheme  
The Australian, 3 December 2010, p4.

Radio interview with Chris Dunstan about trigeneration  
2SM Sydney Mornings, 2 December 2010, 10.36am

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2UE Sydney Afternoons, 2 December 2010, 12.20pm.

Radio interview with Dror Ben-Ami about reasons given for culling kangaroos  
2TM Tamworth rural news, 2 December 2010, 12.15pm.

Radio interview with Chris Dunstan about Climate Clubs  
ABC 702 Sydney, 2 December 2010, 8.35pm.

People try to put him down, but he's just talkin' about trigeneration  
Brisbanetimes.com.au and Coffs Coast Independent, 2 December 2010

Sydney to go it alone as power producer  
Sydney Morning Herald, p1. 2 December 2010 and Brisbanetimes.com.au, Fairfield  
Champion, Riverina Rural

The travel plan revolution?  
Indesign, 1 December 2010, p226.

Radio news story on culling kangaroos  
SBS Ethnic Radio News, Melbourne, 1 December 2010, 6am.

No numbers to support kangaroo culling: report  
Bendigo Advertiser, 1 December 2010, p37.

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ABC Newcastle, 30 November 2010, 8.30am.

Radio interview with Dror Ben-Ami about culling and eating kangaroos  
ABC Illawarra, Wollongong Mornings, 30 November 2010, 10am.

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SBS Ethnic Radio News, Melbourne, 30 November 2010, 5.10pm

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ABC Newcastle, 7am news, 30 November 2010

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Newcastle Herald, 30 November 2010, p5.

Water saving replaces dam  
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Radio interview with Keely Boom about THINKK  
2CC Canberra, 12.00 news, 3.30pm news & 5pm news, 29 November 2010

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ABC Upper Hunter, Muswellbrook, 12.30pm news, 29 November 2010

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Canberra Times, 29 November 2010, p1.

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Brisbane Times & Sydney Morning Herald, p10. 29 November 2010 Busselton Mail,  
Friday 10 December 2010,

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Brisbane Times & Sydney Morning Herald, p5. 29 November 2010

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Radio Adelaide, The Wire, 29 November 2010, 5.45pm

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Sydney Morning Herald, 23 November 2010, p10 and [Brisbanetimes.com.au](http://Brisbanetimes.com.au),

On top of the world  
ABC online, 16 November 2010

Mining new ideas to help boost industry  
MX (Sydney), Friday, 12 November 2010, p6.

Emotions strong one year after dam  
Fraser Coast Chronicle, 13 November 2010

Dam result celebrated  
Gympie Times, Saturday, 13 November 2010, p3.

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Hillston Ivanhoe Spectator, 10 November 2010, p5.

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Business Spectator, Tuesday 9 November, P1

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Sun Herald, Sydney p19 and [www.brisbanetimes.com.au](http://www.brisbanetimes.com.au), 7 November 2010

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Sydney Morning Herald, Thursday 4 November 2010 Page2

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Business Spectator, 28 October 2010, p1.

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ABC 702 Sydney, Sydney, Mornings: 27 October 2010 08:42AM

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Sky Business News, Sydney, 15 October 2010 09:44PM

Rooty Hill RSL installs trigeneration facility  
Engineers Australia, October 2010, p56.

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Plumbing Connection, Spring 2010, p40

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Plumbing Connection, Spring 2010, p56.

Industries to exchange wastewater in trial project  
Water Engineering Australia, October 2010, p14.

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Peak phosphorus still a threat to food security, despite new report  
Energy Bulletin, posted 28 September 2010

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The Wire, Radio Adelaide, 27 September 2010, 5.53pm

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Radio interview with Michelle Zeibots about the Lane Cove tunnel  
2UE Sydney, 21 January 2010, 9.33am

7.30 Report  
ABC1 Melbourne, 21 January 2010

Peak phosphorous: mankind's latest threat  
Farm Weekly, The Land, Queensland Country Life and Stock and Land online, 21 January 2010

Radio interview with Michelle Zeibots about Lane Cove Tunnel  
ABC 702 Sydney, Drive, 20 January 2010, 5.13pm.

Water down the drain  
Central, 20 January 2010, p12.

Research into the future of minerals  
Engineers Australia, January 2010, p43.

Labyrinth of motorways threatens to swallow city  
Sydney Morning Herald, 16 January 2010, p1.

Radio interview with Michelle Zeibots about road building plans  
ABC 702 Sydney, 16 January 2010, 7.17am.

Slow trains push commuters onto motorways  
Brisbane Times online, 15 January 2010.

Desal doubts remain  
Inner West Courier, 12 January 2010, p6.

Experts fear a shortage of phosphate by the end of the century  
Le Monde, updated 11 January 2010

Local goes global in Copenhagen  
Government News, January 2010, p10.



## APPENDIX 4: POSTGRADUATE STUDENTS

### Graduates in 2010

Dana Cordell graduated in Autumn 2010 with her thesis *The Story of Phosphorus: Sustainability implications of global phosphorus scarcity for food security*.

Chris Reardon graduated in Autumn 2010 with his thesis on *Creating a sustainable Australian housing industry: utopian dream to measurable reality - a template to promote change*.

Tanzi Smith graduated in Autumn 2010 with her thesis on *Ecological frameworks for sustainable communities: testing the theory in a developing country context*.

Suzanne Grob graduated in Spring 2010 with her thesis *Sustainable organisational procurement: pathway of transition for Australian organisations*.

### Current postgraduate students

Student	Start Date	Phd or Masters	Topic
Christiane Baumann	2009	Phd	Identifying the levers that create sustainable private mobility in cities.
Johannes Behrisch	2010	Masters	Implementing sustainability principles into the design of electric and electronic equipment.
Richard Cuskelly	2010	PhD	Risk communication between local government and Australian communities.
Chris Dunstan	2005	PhD	The good servant: designing electricity markets as if the future matters.
Dena Fam	2008	PhD	Transitioning to sustainable sanitation: the potential of urine diversion as a niche based approach to sewage management.
Judy Friedlander	2010	Masters	Media strategies in sustainability and climate change.
Andrew Glover	2008	PhD	Transcending modern consumer culture: from disposability to sustainability.
Jenny Kent	2008	PhD	Climate change - whose responsibility? from the personal to the global.
Sarina Kilham	2009	Phd	Social impacts of biofuel production: a study of Brazil and Timor-Leste.
Tania Leimbach	2010	Masters	Cause and effect: education for the seventh generation.
Reza Memary	2010	Phd	Material requirements for developing clean energy production in Australia.
John McKibbin	2010	Phd	Toward sustainable cities: policies, processes, analyses and tools supporting integrated resource planning decisions
Christopher Nelson	2004	PhD	Agricultural reform and development in the Northern provinces of Mozambique.
Jane Palmer	2007	PhD	Theory and application of transdisciplinarity in a complex sustainability problem.
Tani Shaw	2009	Phd	The sustainability of economics.
Nicole Thornton	2006	PhD	People's attitudes to water and the associated impacts this has on their water use.
Wilhelmus Van Deur	2010	PhD	The role of and strategic environmental assessment and environmental impact assessment in the sustainable management of contaminated land in the Asia Pacific region.
Rachel Watson	2010	PhD	The full spectrum of costs and benefits of decentralised recycled water schemes under varying governance arrangements.
Keren Winterford	2007	PhD	Reframing the question used within international development to appreciate strengths and assets within communities.

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