

# Work and Climate Change Report

The green transition of work and workplaces: Research and News from a Canadian viewpoint

YEARLY ARCHIVES: 2012

## Report Makes the Case for Shifting Subsidies from Oil and Gas to Renewable Energy to Create Jobs and Address Climate Change

Posted on **December 11, 2012** by **elizabethperry493**

*More Bang for our Buck* from Blue Green Canada is a report describing the job creation potential of investing the \$1.3 billion in federal subsidies, now given to the oil and gas sector, in renewable energy, energy efficiency and public transit. The results show that six to eight times more jobs could be created: 18,000-20,000 jobs in clean energy sectors vs. 2,300 jobs in oil and gas. The report questions the current pace of expansion of the oil sands industry and calls for a plan to transition to clean energy. The global job market in renewable energy is growing, and the report documents the fact that approximately 5 million people were employed in the sector worldwide last year.

### LINKS:

*More Bang for our Buck: How Canada Can Create More Energy Jobs and Less Pollution*, full Report:

<http://bluegreencanada.ca/sites/default/files/resources/More%20Bang%20for%20Buck%20Nov%202012%20FINAL%20WEB.pdf>

# Doha Convention Update and Emissions Gap Report

Posted on **December 11, 2012** by [elizabethperry493](#)

## DOHA CONVENTION UPDATE & EMISSIONS GAP REPORT

The 18th session of the Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC) took place from 26 November to 7 December 2012 at the Qatar National Convention Centre in Doha, Qatar. The Doha Summit faced a number of significant challenges, as this year marks the end of the first phase and the need to extend the Kyoto Protocol before it lapses at the end of the year. According to a summary compiled by the Centre for Climate and Energy Solutions, some of the key decisions include: the adoption of an amendment to the Kyoto Protocol establishing a second round of binding greenhouse gas emission targets for Europe, Australia and a handful of other developed countries; finalized decisions under a parallel negotiating track launched in 2007 in Bali that produced new mechanisms on finance, review, adaptation and technology, as well as voluntary emission pledges from 94 countries; the beginning of a new phase in which all the major issues will be negotiated within a single track called the Durban Platform for Enhanced Action; the Durban Platform calls for an outcome with legal force “applicable to all” starting in 2020.

Related to the Doha Convention, *The Emissions Gap Report 2012* has been released, coordinated by the UN Environment Programme (UNEP) and the European Climate Foundation. The report includes an update on global GHG emissions estimates, an estimate of emissions consistent with the 2° C target in 2020, 2030 and 2050, as well as a look at progress being made in certain parts of the world leading to substantial emissions reductions, and how successful initiatives can be scaled up.

### LINKS:

The official UNFCCC website is at: [http://unfccc.int/meetings/doha\\_nov\\_2012/meeting/6815.php](http://unfccc.int/meetings/doha_nov_2012/meeting/6815.php)

For a background paper on Canada at Doha by Clare Demerse and P.J. Partington, from Pembina Institute released on November 26, see: <http://www.pembina.org/pub/2394>

A helpful summary of G8+5 Country Climate Change Positions by Climatico can be found at:

<http://www.climaticoanalysis.org/wp-content/uploads/downloads/2012/11/Summary-of-G8+5-Climate-Change-Positions.pdf>

A summary of the outcomes of the Doha Conventions written by the Centre for Climate and Energy Solutions the can be found at: <http://www.c2es.org/docUploads/c2es-cop-18-summary.pdf>

The *Emissions Gap Report 2012*, is at: <http://www.unep.org/pdf/2012gapreport.pdf>

Emissions Gap summary and accompanying documents available from:

<http://www.unep.org/publications/ebooks/emissionsgap2012/>

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## Governments Urged to be More Aggressive on Climate Change

Posted on **December 11, 2012** by [elizabethperry493](#)

*Turn Down the Heat: Why a 4°C Warmer World Must Be Avoided*, was released by the World Bank on November 19. The report, prepared for the bank by the Potsdam Institute for Climate Impact Research (PIK) and Climate Analytics, says global mean temperatures are now about 0.8°C above pre-industrial levels and are set to be 4°C Celsius warmer by end of this century. The report warns the world is on track to a “4°C world” which will be marked by extreme heat-waves and life-threatening sea level rise. Adverse effects of global warming will be most damaging to the world’s poorest regions, and likely to undermine development efforts and goals. The World Bank suggests governments must be more aggressive in tackling climate change if the worst effects are to be avoided.

### LINKS:

See the full report, *Turn Down the Heat: Why a 4°C Warmer World Must Be Avoided* at:

[http://climatechange.worldbank.org/sites/default/files/Turn\\_Down\\_the\\_heat\\_Why\\_a\\_4\\_degree\\_centrigade\\_warmer\\_world\\_must\\_be\\_avoided.pdf](http://climatechange.worldbank.org/sites/default/files/Turn_Down_the_heat_Why_a_4_degree_centrigade_warmer_world_must_be_avoided.pdf)

A summary of the report can be found at:

<http://climatechange.worldbank.org/content/climate-change-report-warns-dramatically-warmer-world-century>

An overview of the data in the form of an infographic can be viewed here:

<http://climatechange.worldbank.org/content/4-degree-warmer-world-we-must-and-can-avoid-it->

# Northern Gateway Pipeline

## Hearings Ongoing

Posted on **December 11, 2012** by **elizabethperry493**

A new study, *Potential Economic Impact of a Tanker Spill on Ocean- Based Industries in British Columbia*, looks at the potential economic impact of a tanker spill on B.C.'s ocean-based industries. Ocean-based industries are vitally important to the coastal communities of northern B.C., where 30% of the local population has some form of employment linked to the industry. The authors consider the potential economic costs of a hydrocarbon spill from a tanker along the proposed shipping routes, something that has not previously been quantified. Three scenarios, including no impact, medium impact and high impact are calculated in the report. The findings show how a medium impact spill would mean that 30%, 16% and 33% of the projected output value, employment and contribution to GDP of the Enbridge Northern Gateway Project could be lost to the spill. In the case of a higher impact spill, the percentages of the projected benefits from the Enbridge Northern Gateway project that could be lost to the spill are 49%, 52% and 70%, respectively. The results take into account the market-based value of four ocean-based industries and do not account for clean up, litigation and other cultural, social and environmental damages.

### LINKS:

The report *Potential Economic Impact of a Tanker Spill on Ocean Based Industries in British Columbia*, by Ngaio Hotte and U. Rashid Sumaila of the Fisheries Centre, UBC can be found at: <http://www.fisheries.ubc.ca/publications/potential-economic-impact-tanker-spill-ocean-based-industries-british-columbia>

A summary of the issues from the Globe and Mail can be found at: <http://www.theglobeandmail.com/news/british-columbia/enbridge-opponents-spar-over-pipelines-risks/article6221920/>

The full schedule of the Enbridge Northern Gateway Pipeline Joint Review Panel hearings, with links to transcripts, can be accessed at: <http://gatewaypanel.review-examen.gc.ca/clf->

## Climate Change and New Organizational Landscapes

Posted on **December 11, 2012** by [elizabethperry493](#)

The journal of Organization Studies has released a special issue for November 2012 titled *Climate Change and the Emergence of New Organizational Landscapes*, by Guest editors Bettina B. F. Wittneben, Chukwumerije Okereke, Subhabrata Bobby Banerjee and David L. Levy. The editors state in their introductory article: "Given the urgency of the problem and the need for a rapid transition to a low-carbon economy, there is a pressing need for organization scholars to develop a better understanding of apathy and inertia in the face of the current crisis and to identify paths toward transformative change." The issue includes such articles as "Hippies on the Third Floor: Climate Change, Narrative Identity and the Micro-Politics of Corporate Environmentalism" by Christopher Wright, Daniel Nyberg, and David Grant of the University of Sydney, Australia.

### LINK:

*Organization Studies*, (November 2012) v. 33 #11 is available at the Sage website:  
<http://oss.sagepub.com/content/current>

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## New Tools for Employment Counsellors Focus on Green Jobs

Posted on **December 11, 2012** by [elizabethperry493](#)

A report, titled *Emerging Green Jobs in Canada* released in summer, 2012 provides insight into the changing labour market and its potential for entry-level employment in the green economy. The report consists of a two-part literature review on the green economy and specifically on the renewable energy and energy conservation sectors and the skills needed to secure entry-level positions for job seekers. It includes tools for employment counsellors and job developers,

including an inventory of training programs and employers, an online and interactive map of renewable energy and energy conservation projects across Canada, and case studies on five successful green jobs training programs. The report was published by the Green Skills Network with the support of the Canadian Education and Research Institute for Counselling (CERIC).

Also useful to employment counsellors are two new profiles added to the Green Careers series by the U.S. Bureau of Labor Statistics, in September 2012: Careers in Environmental Remediation (#8) and Geothermal Energy (#9). Both reports follow the template of this Career Guide series by defining and describing the work, identifying the major occupations, and providing job descriptions, current labour force statistics and wage information, and training requirements for each occupation. Also from the summer 2012 issue of the BLS Occupational Outlook Quarterly, an article titled *Electric Vehicle Careers: On the Road to Change*.

#### **LINKS:**

*Emerging Green Jobs in Canada* Report, released in Summer 2012:

<http://ceric.ca/files/PDFs/Emerging%20Green%20Jobs%20in%20Canada.pdf>

Green Skills Network Website: <http://www.firstwork.org/wp/2010/06/green-skills-network-main/>

US BLS Career Guide #8, *Environmental Remediation*:

[http://www.bls.gov/green/environmental\\_remediation/remediation.pdf](http://www.bls.gov/green/environmental_remediation/remediation.pdf)

Career Guide #9, *Geothermal Energy*:

[http://www.bls.gov/green/geothermal\\_energy/geothermal.pdf](http://www.bls.gov/green/geothermal_energy/geothermal.pdf)

The article *Electric Vehicle Careers: On the Road to Change* is available at:

<http://www.bls.gov/opub/ooq/2012/summer/art02.pdf>

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## **The Green Budget Coalition Releases Recommendations for 2013**

Posted on **December 11, 2012** by [elizabethperry493](#)

The Green Budget Coalition's *Recommendations for Budget 2013* was released in November, with the following "feature recommendations" for the federal budget: 1) Subsidy Reform in the Extractive Industries; 2) National Conservation Plan: Securing Canada's Natural Advantage for Future Generations; 3) Strengthening Canada's Environmental Law and Science Capacity; and 4) Green Infrastructure in First Nations Communities. Regarding the reform of extractive industries such as oil and gas, the Coalition proposes three changes: enable the Canadian Exploration Expenses (CEE) subsidy only for unsuccessful exploration; remove the Accelerated Capital Cost Allowance (ACCA) for the mining sector; and do not renew the Mineral Exploration Tax Credit (METC) for flow-through shares. The report includes a table, which costs each recommendation; for example, the subsidy reforms, they estimate, would combine to produce a savings of approximately \$345 million per year. The Green Budget Coalition (GBC) was founded in 1999, and brings together sixteen leading Canadian environmental and conservation organizations.

#### LINKS:

*Recommendations for Budget 2013* is available at:

<http://www.cela.ca/sites/cela.ca/files/876GBCRecommendationsBudget2013.pdf>

Archive of past annual recommendations is at: <http://www.cela.ca/collections/justice/green-budget-coalition>

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## Canada's Climate Change Policy Ranks Worst in the OECD Countries

Posted on **December 11, 2012** by [elizabethperry493](#)

The *Climate Change Performance Index for 2013* was released this month at the Doha climate talks. The report compares the top 58 CO<sub>2</sub> emitting nations in the world- the countries listed being responsible for 90% of global energy-related CO<sub>2</sub> emissions. The Index compares emissions trends, emissions levels and climate policies, and Canada ranked last overall. Published by Germanwatch and the Climate Action Network Europe, the *Climate Change Performance Index for 2013* full report, as well as links to tables and maps can be found at:

<http://germanwatch.org/en/5698>

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# Sustainable Energy for All: the Business Opportunity

Posted on **December 11, 2012** by **elizabethperry493**

The UN Global Compact and Accenture have released 19 sectoral reports within the theme of *Sustainable Energy for All: The Business Opportunity*. The reports identify priority activities and challenges for businesses to support the UN Secretary-General's Sustainable Energy for All (SE4ALL) initiative. The reports are based on research and interviews with more than 70 companies and cover 19 industries. Key priority areas for action identified include: improving energy efficiency in operations; increasing the use of renewable energy; reusing waste streams; and increasing in stakeholder engagement and advocacy. The full report, *Sustainable Energy for All: the Business Opportunity* is available at:

<http://www.accenture.com/SiteCollectionDocuments/PDF/Accenture-Sustainable-Energy-for-All-The-Business-Opportunity.pdf#zoom=50> with individual industry reports available from: [http://www.unglobalcompact.org/Issues/Environment/Environment\\_Guidance\\_Material/sefa\\_industry\\_focused\\_reports.html](http://www.unglobalcompact.org/Issues/Environment/Environment_Guidance_Material/sefa_industry_focused_reports.html)

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## Jobs in U.S. Solar Industry Increasing

Posted on **December 11, 2012** by **elizabethperry493**

The Solar Foundation released its third annual *National Solar Jobs Census* report, which found that the U.S. solar industry currently employs 119,016 Americans. This figure represents the addition of 13,872 new solar workers and a 13.2% employment growth rate over the past 12 months. 86% of the nearly 14,000 new solar workers added since August 2011 represent new jobs, rather than existing positions that have added solar responsibilities. The report, produced by The Solar Foundation and in partnership with BW Research and Cornell University, was released on November 14th, 2012, at the Interstate Renewable Energy Council's [Clean Energy Workforce Education Conference](#) in Albany, NY. *National Solar Jobs Census* Report is available at: <http://thesolarfoundation.org/sites/thesolarfoundation.org/files/TSF%20Solar%20Jobs%20Census%202012%20Final.pdf>

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# Ontario Weakening its Push to Reduce GHG Emissions?

Posted on **December 11, 2012** by **elizabethperry493**

Ontario's Environmental Commissioner released a report titled *A Question of Commitment*, on December 4th, the 2012 edition of his annual review of the government's Climate Change Action Plan. The report points out the weakening of policies meant to reduce GHG's in the province, including the Green Commercial Vehicle Program cancellation despite achieving reductions that were 350% higher than expected; cuts to the Electric Vehicle Programs; High Occupancy Vehicle Lanes delayed; and the absence of a plan to join the Western Climate Initiatives' emissions trading program. The report, *A Question of Commitment*, can be found at:

[http://www.eco.on.ca/index.php/en\\_US/pubs/greenhouse-gas-reports/2012-greenhouse-gas](http://www.eco.on.ca/index.php/en_US/pubs/greenhouse-gas-reports/2012-greenhouse-gas)

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## Global Coal Risk Assessment Report Released

Posted on **December 11, 2012** by **elizabethperry493**

*Global Coal Risk Assessment: Data Analysis and Market Research*, a working paper by Ailun Yang and Yiyun Cui, was released by the World Resources Institute on November 20. Using estimates from the International Energy Agency, the report states that global coal consumption reached 7,238 million tonnes in 2010. Original research by the authors shows that 1,199 new coal-fired plants with a total installed capacity of 1,401,268 MW are being proposed globally, in 59 countries. China (with 363 proposed new coal plants) and India (with 455) together account for 76% of the proposed new coal power capacities. Canada ranks 13th in current consumption and has no proposed coal projects; the U.S. has 36. See summary at:

<http://insights.wri.org/news/2012/11/new-global-assessment-reveals-nearly-1200-proposed-coal-fired-power-plants>

Full Report at: [http://pdf.wri.org/global\\_coal\\_risk\\_assessment.pdf](http://pdf.wri.org/global_coal_risk_assessment.pdf)

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# Comprehensive Assessment on Climate Change Impacts and Vulnerability in Europe Released

Posted on **December 11, 2012** by **elizabethperry493**

The European Environment Agency (EEA) has recently published a report on *Climate Change, Impacts and Vulnerability in Europe 2012*. This report assesses observed and projected climate change and associated impacts on ecosystems, society and human health in Europe based on more than 40 indicators. Compiled by about 100 authors and contributors, it is the most comprehensive assessment on climate change impacts in Europe so far. Read the press release in all official EEA languages at: <http://www.eea.europa.eu/pressroom/newsreleases/climate-change-evident-across-europe>

The full Report is available at:

<http://www.eea.europa.eu/publications/climate-impacts-and-vulnerability-2012/>

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## Stewarding the Green Agenda – the Role of Union in the Transition to a Low Carbon Economy and the Green Skills Agenda

Posted on **December 11, 2012** by **elizabethperry493**

*Stewarding the Green Agenda* provides recommendations for the trade union role in the transition to a low carbon economy and the green skills agenda, and describes how trade unions in the U.K. are currently leading or 'stewarding' the transition through dialogue and advocacy with government. The report was commissioned by the TUC's Unionlearn and conducted by Capacity Global. *Stewarding the Green Skills Agenda* can be found at:

<http://www.unionlearn.org.uk/publications/stewarding-green-skills-agenda>

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# Jobs, Growth and Warmer Homes: Economic Stimulus of Investing in Energy Efficiency Evaluated in the UK

Posted on **December 11, 2012** by **elizabethperry493**

A report released in the UK in October, 2012 explains the potential benefits of spending carbon tax revenues on improving energy efficiency in fuel poor households to create a “triple win” of warmer homes, greater energy efficiency and economic growth. The study suggests if the carbon revenue is reinvested in such a program, it could create up to 71,000 jobs by 2015 and up to 130,000 jobs by 2027. *Jobs, Growth and Warmer Homes: Evaluating the Economic Stimulus of Investing in Energy Efficiency Measures in Fuel Poor Homes. Final Report for Consumer Focus* by Cambridge Econometrics can be found at: <http://www.consumerfocus.org.uk/files/2012/11/Jobs-growth-and-warmer-homes-November-2012.pdf>

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## National Roundtable on the Environment and the Economy Issues its Final Report

Posted on **November 11, 2012** by **elizabethperry493**

On October 18th, Canada’s National Roundtable on the Environment and the Economy published *Framing the Future: Embracing a Low-Carbon Economy*. The report begins from the position that “Canada is unprepared to compete in a carbon constrained world.” It outlines a low-carbon growth framework and action steps to achieve four main objectives: stimulate innovation, mobilize investment, enhance market access, and foster talent and skills development. The authors identify essential conditions required for future growth in all areas, emphasizing that “of all our key components of a low-carbon strategy, the most important and necessary is the establishment of long-term certainty on climate, energy, and innovation policies.”

Throughout the report, definitions are important. This is not a report about the “green economy”, rather, “we are exclusively focusing on the actions needed to bring about the low-carbon aspect of the “green economy”. The discussion is based on data and analysis about “low carbon growth sectors (LCGS)”, which are defined as energy (traditional and alternative), industrial processes,

buildings, and efficient vehicles. Referring to our knowledge of the labour market, the authors cite two main problems: an unclear definition of green jobs and a lack of baseline information. In masterful understatement, they conclude that “The fact remains that Canada’s statistical capacity is not attuned to tracking growth in the low-carbon economy”. Despite these problems, the report provides statistical estimates: first, based on commissioned analysis by Analytica, it estimates the 2010 low-carbon economy direct employment at approximately 42,000 FTE (96,000 when indirect and induced employment is added). Second, using the CIMS model and Statistics Canada data to project performance and labour inputs by sector, it projects total labour inputs (direct, indirect and induced jobs) of 224,000 in 2050 under its Reference Case and 402,000 under its carbon-constrained scenario.

**LINK:**

*Framing the Future: Embracing a Low-Carbon Economy* is available at: <http://nrtee-trnee.ca/wp-content/uploads/2012/10/framing-the-future-report-eng.pdf> (English) and *Définir notre avenir: Vers une économie faible en carbone* est disponible à <http://nrtee-trnee.ca/wp-content/uploads/2012/10/framing-the-future-report-fra.pdf>

This is the last in a six-part “Climate Prosperity” series and the final report of the organization. Note that the NRTEE will officially cease to exist on March 31, 2013.

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## The Supply Side of Green Jobs in Ontario: An Interview of Training Opportunities

Posted on **November 11, 2012** by [elizabethperry493](#)

A recent report by some of Ontario’s workforce development agencies summarizes the employment and training opportunities for the green economy in the Greater Toronto area since the enactment of *Ontario’s Green Energy Act* in 2009. A major focus of the report was to assemble a comprehensive database of skill-building programs in the GTA, reflected in a 20-page list of programs. Ontario community colleges have introduced 35 new diploma courses relating to the greening employment industry, and there are more than 165 organizations (including NGO’s, labour unions and non-profits) which offer some 370 green skill building courses. The report also identifies the grants (at all three levels of government) and organizations which have provided both private and public funding for training initiatives. *Tending Green Shoots* is a joint publication of the Durham Region Local Training Board, Toronto Workforce Innovation Group, Peel Halton Workforce

Development Group, and the Workforce Planning Board of York Region and Bradford West Gwillumbury.

#### LINKS:

*Tending Green Shoots: Green Skillbuilding Programs in the GTA* is available at:

[http://workforceinnovation.ca/sites/default/files/TWIG\\_GreenReport\\_WebVersion\\_V8-1.pdf](http://workforceinnovation.ca/sites/default/files/TWIG_GreenReport_WebVersion_V8-1.pdf)

The Toronto Workforce Innovation Group has published 5 reports on the green economy in the GTA since April 2012. They are all available at:

<http://www.workforceinnovation.ca/workforce-development-trends/green-economy/twig-research-and-actions>

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## WTO Ruling on Ontario's Green Energy Act Local Content Provisions

Posted on **November 11, 2012** by [elizabethperry493](#)

Although the official World Trade Organization decision is not scheduled until the end of November, a leaked confidential interim decision indicates that the decision has gone against Ontario. An October 15th report in the *Globe and Mail* is based on a report by the Geneva-based International Centre on Trade and Sustainable Development, which states that the a three-member WTO panel has sided with the EU and Japan in their claim that Ontario's local content provisions violate the WTO's non-discrimination principle enshrined in the General Agreement on Tariffs and Trade (GATT) and the WTO Agreement on Trade-Related Investment Measures (TRIMS). Unions and environmental groups are calling for the federal and Ontario governments to appeal the decision in order to protect the fledgling green manufacturing industry in Ontario and the cause of sustainable development.

#### LINKS:

“Ontario loses WTO ruling on green energy policies: reports”, by Robert Blackwell in the *Globe and Mail*, October 15

<http://www.theglobeandmail.com/report-on-business/ontario-loses-wto-ruling-on-green-energy-policies-reports/article4614805/?cmpid=rss1>

International Centre for Trade and Sustainable Development report is at <http://ictsd.org/i/trade-and-sustainable-development-agenda/147275/>

*Unions and environmental groups denounce preliminary WTO ruling against Ontario renewable energy policy* by Stewart Trew at the Rabble.ca website at <http://rabble.ca/blogs/bloggers/council-canadians/2012/10/unions-and-environmental-groups-denounce-preliminary-wto-ru>

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## Wind Energy in Quebec

Posted on **November 11, 2012** by **elizabethperry493**

At its annual conference in Toronto in October, the Canadian Wind Energy Association (CanWEA) projected that 60% of Canada’s wind power installations in 2012 will occur in Quebec. In November 2012, the association released several documents produced in 2010, including a comprehensive economic impact study of the wind energy sector in Québec produced by Hatch Consulting and economist Jean-Claude Thibodeau.

### LINKS:

See *WindVision 2025: A Strategy for Quebec* (in English) at [http://www.canwea.ca/windvision\\_quebec\\_e.php](http://www.canwea.ca/windvision_quebec_e.php). Supporting documents are all available in French only, and include the economic impact study, *Études retombées économiques de la filière de l’énergie éolienne sur le Québec et en Gaspésie, 2005 – 2025* at: [http://www.canwea.ca/pdf/economic\\_benefits\\_qc\\_full\\_fr.pdf](http://www.canwea.ca/pdf/economic_benefits_qc_full_fr.pdf), along with the results of a Leger Marketing survey of Quebecers about wind energy, done in Jan/February 2012 at <http://www.canwea.ca/pdf/Rapport-Omnibus-2012.pdf>.

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# U.S. Case Studies of Energy Efficiency as a Job Creator

Posted on **November 11, 2012** by **elizabethperry493**

An October report by the American Council for an Energy- Efficient Economy (ACEEE) provides six case studies that showcase the direct, indirect and induced jobs resulting from energy efficiency projects at: OPower, New York City Greener Greater Buildings, Nissan North America, Ohio Low-income Weatherization, Johnson Controls (Wisconsin), and General Electric Appliance Park. The case studies describe programs, policies, investments, partnerships, and business models. It also includes “Job Analysis 101”, a useful, non-technical explanation of how the ACEEE arrives at its job creation estimates, with clear definitions of the terms used.

## LINKS:

*Energy Efficiency Job Creation: Real World Experiences* by Casey Bell is available at <http://aceee.org/files/pdf/white-paper/energy-efficiency-job-creation.pdf> *What is an energy efficient job?* at <http://aceee.org/blog/2012/10/what-energy-efficiency-job> is a related blog which summarizes this report but also includes discussion of the methodology in the form of questions from readers, with answers by Casey Bell.

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# Regional Case Studies of Alternative Energy Lead to a Vision

Posted on **November 11, 2012** by **elizabethperry493**

A new report released in October by the Center for American Progress focuses on low carbon economic development strategies to create jobs and increase climate change resiliency in six U.S. regions. Edited by Kate Gordon and Kiley Kroh, the chapters are authored by local contributors, and report on: Offshore wind on the Atlantic Coast; coastal restoration in the Gulf Coast; energy efficiency in the Southeast; advanced vehicle manufacturing in the Midwest; wind power and solar power development and distribution in the Mountain West; and solar power innovation and

installation on the Pacific Coast. The report concludes with recommendations for a future national energy policy for the U.S. and for policies for each of the regions discussed.

**LINK:**

*Regional Energy, National Solutions: A Real Energy Vision for America* is available at

[http://www.americanprogress.org/wp-content/uploads/2012/10/RER\\_full.pdf](http://www.americanprogress.org/wp-content/uploads/2012/10/RER_full.pdf)

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## Environmental Activists Gather in Ottawa

Posted on **November 11, 2012** by [elizabethperry493](#)

Ottawa/Gatineau was the scene of speeches, workshops, panels, and demonstrations for environmental justice. PowerShift 2012 was scarcely covered in the mainstream press, but reports of the group activities are at the PowerShift website at <http://www.wearepowershift.ca/about-1>, including videos of some of the speeches (Naomi Klein, Bill McKibben). For thoughts on the relationship of the labour movement and environmental activists, read “Pondering Powershift 2012: What’s up with Canada’s Blue-Green Alliance?” by Joel Davison Harden in the latest issue of *Our Times* at [http://ourtimes.ca/Between\\_Times/article\\_242.php](http://ourtimes.ca/Between_Times/article_242.php).

A manual published in Summer 2012 by the Labor Solidarity Network in the U.S. offers specific guidance to reduce such blue-green tensions. *Jobs Beyond Coal: A Manual for Communities, Workers, and Environmentalists* by Jeremy Brecher is “intended for communities, unions, environmentalists, native tribes, public officials, and anyone involved in or affected by coal retirement campaigns.” It outlines strategies and techniques to help those campaigning for renewable energy to win support and reduce opposition from workers, unions and communities. See [http://report.labor4sustainability.org/coal\\_2012.pdf](http://report.labor4sustainability.org/coal_2012.pdf).

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# TUC Continues its Focus on the Green Economy

Posted on **November 11, 2012** by **elizabethperry493**

The 2012 annual climate change conference of the Trades Union Congress (TUC) of the U.K. took place on 23 October with over 200 delegates and 30 expert presenters. The conference theme was Green is Good for Growth, and included keynote addresses, expert-led workshops and panel debates between business, trade unions, campaigners and politicians. Topics included the Government's £250m package of support measures for the energy intensive industries, a description of the work of the Greener Jobs Alliance, skills shortages, and Powerpoint slides summarizing the TUC's latest research, the *Green Economy Study*. Downloadable resources are available at <http://www.tuc.org.uk/workplace/tuc-21611-f0.cfm>. For more information about the TUC, see the latest Green Workplaces newsletter at:

<http://www.tuc.org.uk/workplace/tuc-21567-f0.cfm>.

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## Public Approval of Carbon Tax Slipping in B.C.

Posted on **November 11, 2012** by **elizabethperry493**

In an online survey of British Columbians commissioned by the Pembina Institute and the Pacific Institute for Climate Solutions at the University of Victoria, 79% of respondents stated that they are concerned about global warming. A majority are willing to pay more carbon tax if the revenue is directed toward social programs such as health care, education, or reduction of greenhouse gas pollution; 70% would oppose carbon tax increases if the revenue were used to reduce taxes on corporations. In general though, support for the B.C. carbon tax has dropped by 12% since 2011, according to this survey.

See [http://pics.uvic.ca/sites/default/files/uploads/MR\\_Carbon%20Tax%20Poll\\_19Oct2012\\_0.pdf](http://pics.uvic.ca/sites/default/files/uploads/MR_Carbon%20Tax%20Poll_19Oct2012_0.pdf) for more information.

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# A Defence of Green Stimulus

Posted on **November 11, 2012** by [elizabethperry493](#)

In the Fall 2012 issue of *New Labor Forum*, Robert Pollin of PERI defends the results of the green stimulus program of the *American Recovery and Reinvestment Act (ARRA)*, arguing that it was envisioned as a 5-year program, but was judged after 2 years in the U.S. election campaign of 2012. See his 4-page article, *Getting Real on Jobs and the Environment: Pipelines, Fracking, or Clean Energy?* at

[http://www.peri.umass.edu/fileadmin/pdf/other\\_publication\\_types/magazine\\_\\_\\_journal\\_articles/Pollin-Getting\\_Real\\_on\\_Jobs-Environment—NLF\\_9-12.pdf](http://www.peri.umass.edu/fileadmin/pdf/other_publication_types/magazine___journal_articles/Pollin-Getting_Real_on_Jobs-Environment—NLF_9-12.pdf).

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## Job Creation in B.C.'s Clean Economy

Posted on **October 11, 2012** by [elizabethperry493](#)

On October 11th, the Vancouver-based consultants, GLOBE Advisors, released three new studies which quantify job creation and highlight the public and private sector policies which have been effective in promoting the province's clean economy. According to the press release, "In 2011, the Clean Energy Supply and Storage, Clean Transportation, and Green Building and Energy Efficiency sectors in B.C. were responsible for 123,350 full-time equivalent (FTE) jobs (75,170 direct and 48,180 indirect) and over \$15 billion in gross domestic product (\$10.7 billion direct and \$4.4 billion indirect)." The reports highlight demand and supply of specific occupations, such as engineers, technicians, and project managers. The other major focus of the reports is to identify the policy drivers and programs which can encourage further growth, with recommendations for the future. In addition to the perennial challenge of *any* Canadian company to find capital for innovation and expansion, the other important barriers to growth included access to skilled labour, education, and training. These three reports continue and build upon the analysis in the previous *West Coast Clean Economy* study (March 2012).

### LINK:

GLOBE Advisors webpage for the 3 studies is at:

<http://www.globeadvisors.ca/market-research/bc-clean-economy-market-insights-study.aspx> Free downloads of the reports and technical documents are available from here by providing registration information.

*West Coast Clean Economy Report: Opportunities for Investment & Accelerated Job Creation* (March 2012) examines members of the Pacific Coast Collaborative (PCC): California, Oregon, Washington, and British Columbia. It is available at:

[http://www.globeadvisors.ca/media/3322/wcce\\_report\\_web\\_final.pdf](http://www.globeadvisors.ca/media/3322/wcce_report_web_final.pdf)

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## The Importance of Green Jobs for a Growing, Sustainable Economy

Posted on **October 11, 2012** by **elizabethperry493**

In a study released on October 10 by the Economic Policy Institute in the U.S., author Ethan Pollack compares the data from the Bureau of Labor Statistics *Green Goods and Services Survey* with other BLS employment trend data. The report begins with a discussion of the BLS definition and methodology regarding measurement of “green jobs”. It then provides data and analysis of the number of green jobs by state, by sector, and by private vs. public sector, pointing out that green jobs are found throughout the economy, and that despite the focus on jobs in renewable energy, that sector represents less than 3% of green jobs (compared to the manufacturing sector which accounts for 20.4 % of all green jobs). Among the conclusions: greener industries grew, and will continue to grow, faster than the overall economy for the next 10 years; green states have fared better in the economic downturn; and, green jobs are accessible to people with all levels of education. And from the concluding paragraph: “ In sum, a dirty economy subsidizes the well-off by taxing the poor and disenfranchised, distorts the market, and shortchanges future generations by leaving the world a worse place for them to live in. For these reasons alone, the case for transitioning to a greener and more sustainable economy is well justified. But the concept of green jobs does play an important role in illustrating a positive vision of a green economy. It reminds us that the seeds of a green transition are planted throughout the economy, that the fundamental structure of the economy will remain intact, and that this vision isn’t so radical but rather is already happening all around us.”

### LINKS:

*Counting up to green: Assessing the green economy and its implications for growth and equity* is available at: <http://www.epi.org/files/2012/bp349-assessing-the-green-economy.pdf>

*Employment in Green Goods and Services (March 2012)* is at the U.S. Bureau of Labor Statistics website at: <http://www.bls.gov/news.release/pdf/ggqcew.pdf>; see also the BLS Green Jobs website at: <http://www.bls.gov/green/> .

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## Green Jobs: Analysis, Statistics and Definitions for OECD Countries

Posted on **October 11, 2012** by **elizabethperry493**

The 2012 edition of the annual OECD *Employment Outlook Report* was released in August, and includes Chapter 4: “What green growth means for workers and labour market policies: An initial assessment”. The chapter is a summary version of a study released by the OECD in June 2012: *The Jobs Potential of a Shift to a Low-Carbon Economy*. It analyses the impacts of green growth policies, particularly mitigation policies, on the labour markets of the developed OECD economies, and then examines how labour market and education/training policies can facilitate green growth. The *Supplemental Material for Chapter 4* includes useful tables summarizing national definitions of green jobs, initiatives to estimate green employment, and green-specific employment and skill development programs. Information is derived from questionnaire responses from OECD member government ministries, as of November 2010.

### LINK:

2012 OECD *Employment Outlook* overview website is at:

<http://www.oecd.org/els/employmentpoliciesanddata/oecdemploymentoutlook.htm>. The full text is not available for free download; click on “Browse this book”, select Chapter 4, and click on the “free preview” link for a read-only version.

*The Jobs Potential of a Shift to a Low-Carbon Economy* (June 2012) is available in full at: <http://www.oecd.org/employment/employmentpoliciesanddata/50503551.pdf>

*Supplemental Material for Chapter 4: Summary of Country Responses to the OECD Questionnaire on Green Jobs* is available for download at:

<http://www.oecd.org/employment/employmentpoliciesanddata/Chap%204%20Web%20Annex.pdf>

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## Are Canadian MBA and Engineering Students Learning to Deal with Sustainability Issues?

Posted on **October 11, 2012** by [elizabethperry493](#)

In its 9th annual survey of the sustainability content in Canadian university programs, Corporate Knights (“the company for clean capitalism”) has focused on MBA and Engineering programs, using the rationale that corporate responsibility is most usually the result of CEO beliefs, and since 63 % of the executives for the top 10 TSX-traded companies hold either an MBA or an engineering degree, the education of these professionals is a necessary precondition of progress toward sustainability in corporate decision-making. As in every other year that the survey has ranked MBA programs, Schulich School of Business at York University in Toronto has ranked at the top. This year, the Master of Environment and Business (MEB) program at the University of Waterloo ranked second. In general, the survey calls for improvements in MBA course content and institutional support: for example, more opportunities for sustainability-oriented internships, and more sustainability-themed courses in the core curriculum.

Amongst engineering programs, University of Toronto ranked first, followed by University of Western Ontario, and L'Université Laval. Overall, the survey finds only 43% of engineering schools provide course specializations relevant to sustainability concerns, and only 30% offering relevant joint degrees.

**AND FOR PRACTISING ENGINEERS....** A survey published in May 2012 measured the knowledge and awareness to climate change adaptation of Canadian professional engineers practicing in five categories of built infrastructure: water, transportation, energy, buildings, and resource extraction/processing. The survey reveals that 70% of engineers agree that a changing climate affects their engineering decisions, (with lower than average agreement in Alberta and Saskatchewan, and higher than average in Quebec, the Atlantic provinces, and the North). However, only 10% of engineers indicate that they “always consider the impacts of a changing

climate in their decisions.” Only 3% of engineers have already used or intend to use the Public Infrastructure Engineering Vulnerability Committee (PIEVC) Protocol; 7% are somewhat familiar with it, and approximately 80% are not at all familiar. The survey was sponsored by Engineers Canada, was conducted between December 2011 and February 2012, and updates a 2007 survey.

#### LINKS:

*2012 Knights School Survey*, September 2012, including complete rankings and survey methodology, is available at: <http://corporateknights.com/report/2012-knight-schools-survey>

*A Higher Degree of Sustainability* by Jeremy Runnalls (overview) is at: <http://corporateknights.com/report/2012-knight-schools-survey/higher-degree-sustainability>

*National Survey of Canada's Infrastructure Engineers about Climate Change* is available at the Engineers Canada website at: [http://www.engineerscanada.ca/files/csa\\_report\\_2012\\_eng.pdf](http://www.engineerscanada.ca/files/csa_report_2012_eng.pdf)

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## Using Information Technology to Improve Sustainable Operations in U.S. Government Workplaces

Posted on **October 11, 2012** by [elizabethperry493](#)

A new report from The Center for Climate and Energy Solutions (C2ES) (formerly the Pew Center on Global Climate Change) provides 8 case studies to highlight how the U.S. federal government is using innovative information and communication technology to achieve efficiencies, reduce operating budgets, and reduce energy consumption. One of the pilot projects, led by the General Services Administration (the landlord of federal government buildings), combines the latest mobility and collaboration tools with flexible office layout and telework to reduce office space requirements, resulting in a 45% reduction in energy use. Changes were guided by a Space Advisory Committee (composed of non-supervisory employees, union representatives and the GSA project team), and included regular communication to and from employees, training on the new technology tools, and management buy-in symbolized by the sacrifice of individual office space by managers. In an employee satisfaction survey at the conclusion of the pilot project, 78%

of workers responded that the new workspace “adequately supported personal productivity”. Other interventions highlighted in case studies: reduction of printing, migration to email cloud services, improved energy efficiency in building standards, use of alternative energy, and improved fleet management.

#### LINKS:

*Leading by Example: Using Information and Communication Technologies to achieve Federal Sustainability Goals* (all case studies) is available at: [http://www.c2es.org/publications/leading-by-example-federal-sustainability-and-ict?utm\\_source=Center+for+Climate+and+Energy+Solutions+newsletter+list&utm\\_campaign=dd4b8608e1-September\\_2012\\_Newsletter&utm\\_medium=email](http://www.c2es.org/publications/leading-by-example-federal-sustainability-and-ict?utm_source=Center+for+Climate+and+Energy+Solutions+newsletter+list&utm_campaign=dd4b8608e1-September_2012_Newsletter&utm_medium=email) .

*GSA’s Prototype Alternative Workspace: Redesigning the Federal Workplace for the 21st Century* is available at: <http://www.c2es.org/docUploads/federal-sustainability-ict-gsa-prototype-workspace.pdf>.

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## Call for New Information Technology Standards to Link it to the Environment and Climate Change

Posted on **October 11, 2012** by [elizabethperry493](#)

At the second Green Standards Week, held in Paris from September 17 – 21, members of the Information Technology community agreed upon and issued its “Paris Declaration”, titled *Green Growth and Climate Change Commitments: The ICT Sector Shows the Way*. The document calls for governments to recognize the ICT sector’s potential to contribute to climate change mitigation and economic recovery, claiming that the “The total savings of applying ICT to key sectors of the economy are estimated at 7.8 Gt of CO<sub>2</sub>e, which represents 15% of global emissions.” The declaration calls for future actions, and briefly describes accomplishments of such IT companies as AT&T, Cisco, Dell, Fujitsu, Hewlett Packard, Microsoft, Nokia Siemens. Green Standards Week was organized by the International Telecommunications Union (A United Nations agency with government and private sector membership) and TechAmerica Europe, and hosted by Microsoft.

## LINK:

Paris Declaration, *Green Growth and Climate Change Commitments: The ICT Sector Shows the Way* is available at: [http://www.itu.int/dms\\_pub/itu-t/oth/4B/04/T4B040000190001PDFE.pdf](http://www.itu.int/dms_pub/itu-t/oth/4B/04/T4B040000190001PDFE.pdf)

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# Retrofitting as a Source of Good Green Jobs

Posted on **October 11, 2012** by [elizabethperry493](#)

A briefing paper by the National Employment Law Project in the U.S. argues that retrofitting, especially in the commercial real estate industry (CRE), is a textbook example of the concept of the “triple bottom line”: profit, people and planet. The paper summarizes earlier reports on the job creation potential of retrofitting (see links below), discusses energy efficiency standards and financing arrangements, and finally focuses on a call for policies and practices to promote decent jobs, such as the retrofitting initiatives in Milwaukee, Los Angeles, and Seattle.

## LINKS:

*Rebuilding Our Way to a Sustainable Recovery: Making Commercial Building Retrofit Jobs into Quality Jobs for Our Communities*, available at the National Employment Law Project website at: [http://www.nelp.org/page/-/Job\\_Creation/CRE\\_Retrofits\\_Issue\\_Brief.pdf?nocdn=1](http://www.nelp.org/page/-/Job_Creation/CRE_Retrofits_Issue_Brief.pdf?nocdn=1)

*A New Retrofit Industry: An analysis of the job creation potential of tax incentives for energy efficiency in commercial buildings and other components of the Better Buildings Initiative* (June 2011) at the U.S. Green Building Council website at: <http://www.usgbc.org/ShowFile.aspx?DocumentID=9531> and *Analysis of Job Creation and Energy Cost Savings From Building Energy Rating and Disclosure Policy* (2012) available at the Institute for Market Transformation website at: [http://www.imt.org/uploads/resources/files/Analysis\\_Job\\_Creation.pdf](http://www.imt.org/uploads/resources/files/Analysis_Job_Creation.pdf).



*The City of Seattle's Community High Road Agreement: Good Faith Stakeholder Engagement and Empowerment* at: <http://www.communitypowerworks.org/wp-content/uploads/2010/10/CPW-HRA-Case-Study.pdf>

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## Britain's Trade Union Congress Calls for Long-Range Planning for a Just, Low-Carbon Economy

Posted on **October 11, 2012** by [elizabethperry493](#)

With the belief that a shift to a lower carbon economy is necessary and inevitable, the TUC looks ahead to the economic disruption likely to flow from new environmental regulation and the establishment of carbon markets in the next decade, and calls for more proactive government leadership and planning. In *A Green and Fair Future for a Just Transition to a Low-Carbon Economy*, the TUC outlines 5 principles that must be present to affect a "just transition", including employee representation and involvement in decision-making bodies dealing with environmental transition, long-term planning necessary to achieve stable, safe employment; a fair distribution of costs across all levels of society; and a high level of commitment to change from government, trade unions and employer federations. The report focuses on the current state of public discussion and policy in the U.K., but surveys "Just Transition" initiatives in the U.S., Canada, Argentina, Spain, and the EU. Research for the document was performed by the Working Lives Research Institute at London Metropolitan University, and included interviews with officers from key unions, government advisors on environmental transition, representatives of NGOs and policy think tanks in the U.K.

**LINK:**

*A Green and Fair Future for a Just Transition to a Low Carbon Economy* is available at: <http://www.tuc.org.uk/touchstone/Justtransition/greenfuture.pdf>

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## GreenJobs BC Workshop

Posted on **October 11, 2012** by [elizabethperry493](#)

GreenJobs BC is an alliance between B.C.'s environmental and labour movements, with a goal to build a green economy in the province. On September 21 and 22, the group hosted the "Good Jobs for a Green Future" conference in Vancouver. See <http://greenjobsbc.org/events/2012-conference/> for summaries of some of the conference presentations (case studies of greening the post office, energy efficiency retrofitting, and greening one hospital employees union local). Related information is at the website of The Columbia Institute, the Secretariat for GreenJobs B.C., at <http://www.columbiainstitute.ca/>. Work in a Warming World (W3) was a co-organizer of the conference, and also organized a workshop on Climate Change and Work, with the Morgan Centre for Labour Research of Simon Fraser University. See [http://greenjobsbc.org/wp-content/uploads/2012/09/W3\\_SFU\\_Workshop\\_Sept-211.pdf](http://greenjobsbc.org/wp-content/uploads/2012/09/W3_SFU_Workshop_Sept-211.pdf) for a full workshop agenda.

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## U.S. Election: What they are Saying about the Wind Energy Tax Credit, Solyndra, and the Clean Economy

Posted on **October 11, 2012** by [elizabethperry493](#)

The U.S. Presidential election takes place on November 6. Little is being said about climate change, the environment, or green jobs, with some notable exceptions, including the expiration of the production tax credit program for wind energy, which threatens jobs in several states, including Iowa, a swing state. See *Jobs Blow away as Congress fails to act on Wind Energy* (Bloomberg Business Week, Oct. 7 2012) at: <http://www.businessweek.com/news/2012-10-07/jobs-blow-away-as-congress-fails-to-act-on-wind-energy> .

For an impartial point of view, see *A Voter's Guide to the Climate and Energy Policy Positions of Obama and Romney* at the website of the non-partisan Center for Climate and Energy Solutions (C2ES) at: <http://www.c2es.org/publications/2012-voter-guide>, and Fact Check.org at <http://factcheck.org/>, which includes *Romney's Clean Energy Whoppers* (from the 1st Presidential Debate) at: <http://factcheck.org/2012/10/romneys-clean-energy-whoppers/>.

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# U.S. Data Release on Green Goods and Service Jobs

Posted on **October 11, 2012** by [elizabethperry493](#)

On September 28, the U.S. Bureau of Labor Statistics released another of its series of reports on green jobs. *Occupational Employment and Wages in Green Goods and Services Summary* provides data based on a sample of approximately 93,000 businesses in 333 industries. Using the BLS output approach to measuring green jobs, the GGS-OCC defines green jobs as “jobs in businesses that produce goods or provide services that benefit the environment or conserve natural resources”. See the report at: <http://www.bls.gov/news.release/pdf/ggsocc.pdf> and note item #2 in this issue re previous BLS releases: THE IMPORTANCE OF GREEN JOBS by Pollard at the Economic Policy Institute.

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## New Website to Share Green Policies in Ontario Municipalities

Posted on **October 11, 2012** by [elizabethperry493](#)

The Ontario Green Policy Hub, launched in October, offers a searchable on-line library of sustainability policies in Ontario municipalities. At launch, the website provides details about policies and programs in Toronto, Kitchener, Burlington, East Gwillimbury, York Region, and joint programs. Categories are: Community Design, Transportation, Green Infrastructure, Water Conservation, Energy, Waste Reduction, and Public Buildings. The OGPH was developed by the Municipal Leaders Forum of the Greater Toronto area chapter of the Canada Green Building Council. The Ontario Green Policy Hub is at: <http://www.ogph.ca/> .

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## Tourism and Climate Change

Posted on **October 11, 2012** by [elizabethperry493](#)

A new report assesses the current situation regarding tourism and climate change, reviews existing national and international policies, and makes recommendations on priority areas for further action. Following a survey of OECD countries, the report found that policies on climate change mitigation were still in their infancy, with ambitious pledges of emissions reductions but a

fundamental lack of “serious” tourism climate policy. Only one-third of the countries studied had identified tourism-related strategies and only five out of 44 had implemented any policies (apart from the EU ETS). None had implemented the comprehensive measures which the OECD recommends in this report. *Climate Change and Tourism Policy in OECD Countries* is a joint publication of the Organisation for Economic Development and the United Nations Environment Program; the lead author of the report is Stefan Gossling of the Research Centre for Sustainable Tourism, Western Norway Research Institute. The full report is available at:

<http://www.oecd.org/cfe/tourism/48681944.pdf>

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## Climate Smart Agriculture

Posted on **October 11, 2012** by [elizabethperry493](#)

In *Greening the Economy with Climate-Smart Agriculture*, the UN Food and Agriculture Organization (FAO), clarifies the evolving concept of “climate smart agriculture”, which includes both mitigation and adaptation. The paper was released at the Second Global Conference on Agriculture, Food Security and Climate Change in Hanoi, Vietnam in September. See *Greening the Economy with Climate-Smart Agriculture* at: <http://www.fao.org/docrep/016/ap401e/ap401e.pdf>

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## Carbon Disclosure Report Ranks Corporate Performance Re Emissions Reductions

Posted on **October 11, 2012** by [elizabethperry493](#)

The Carbon Disclosure Project (CDP) is an independent, business-oriented, not-for-profit organization which measures, discloses, manages and shares environmental information with the goals of reducing global greenhouse gas emissions and promoting the sustainable use of water by businesses and cities. The 2012 editions of its three annual reports, released on September 12, are published “on behalf of 655 investors with assets of US\$ 78 trillion”. The reports use voluntary responses to a CDP questionnaire to measure, analyze and score corporate efforts at carbon emissions reduction via a CDI Leadership Index. The reports provide information by sector, with ranked lists by company name. Top performing global companies are: Bayer, Nestle, BASF, BMW, and Gas Natural SDG. Among the 10 largest (by market cap) companies which *did not* respond to

the CDP request for information: Apple, Berkshire Hathaway, Royal Bank of Canada, Caterpillar, and Amazon.com.

#### LINKS:

The Carbon Disclosure Project website is at: <https://www.cdproject.net/en-US/Pages/HomePage.aspx>

*CDP Global 500 Climate Change Report 2012: Business resilience in an uncertain, resource-constrained world* is at: <https://www.cdproject.net/CDPResults/CDP-Global-500-Climate-Change-Report-2012.pdf> (see intro at ) <https://www.cdproject.net/en-US/Pages/global500.aspx>

*CDP S&P 500 Climate Change Report 2012* (U.S. companies) is at <https://www.cdproject.net/CDPResults/CDP-SP500-2012.pdf>

*Measurement for Management: CDP Cities 2012 Global Report* is available at: <https://www.cdproject.net/CDPResults/CDP-Cities-2012-Global-Report.pdf>

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## ILO sees “Tens of Millions of Green Jobs” Created Worldwide in all Sectors

Posted on **September 12, 2012** by [elizabethperry493](#)

*Working Towards Sustainable Development* is a report published by the ILO, as a result of the collaborative efforts of the Green Jobs Initiative (which includes UNEP, ILO, IOE and ITUC) and the International Institute for Labour Studies of ILO. In a comprehensive survey of green jobs around the world, the report documents the creation of “tens of millions” of green jobs across all sectors, and particularly in renewable energy. It concludes that “Concerns over job losses caused by greening the economy are therefore exaggerated.” The report also concludes that “outcomes for employment and incomes are largely determined by the policy instruments used and the institutions which implement them, rather than being an inherent part of the shift to a greener economy.” Outcomes are likely to be country-specific, with most gains to be made in developing economies. The report is structured according to specific sectors: agriculture, forestry, fisheries, energy, manufacturing, recycling, buildings, and transportation. Canada is mentioned throughout but not highlighted for any best practices. The report concludes with recommendations for policies that will ensure decent work and social inclusion.

## LINK:

*Working Towards Sustainable Development: Opportunities for decent work and social inclusion in a green economy* is available at the ILO website at:

[http://www.ilo.org/wcmsp5/groups/public/—dgreports/—dcomm/—publ/documents/publication/wcms\\_181836.pdf](http://www.ilo.org/wcmsp5/groups/public/—dgreports/—dcomm/—publ/documents/publication/wcms_181836.pdf)

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# Where are the Polluting Jobs in Canada, and how can we Transition to Green?

Posted on **September 12, 2012** by **elizabethperry493**

In a report released in June by the Canadian Centre for Policy Alternatives, authors Marc Lee and Amanda Card acknowledge that transition to a zero carbon Canada will take several decades, and state that the principal challenge for Canada and all countries is to de-couple the economy from fossil fuels. They calculate that only 9% of Canadian workers are employed in jobs related to fossil fuels and other “hot spots” of Canadian industry (including electricity generation, freight transportation and transportation services, chemical manufacturing, metal manufacturing and agriculture), yet these sectors comprise 78% of industrial and commercial GHG emissions. The authors also calculate GHG emissions per worker in 14 industrial sectors in Canada. The report offers 12 recommendations for achieving zero carbon growth while creating and maintaining decent green jobs.

## LINKS:

*A Green Industrial Revolution: Climate Justice, Green Jobs and Sustainable Production in Canada*, published by of the Canadian Centre for Policy Alternatives, is available at:

<http://www.policyalternatives.ca/sites/default/files/uploads/publications/National%20Office/2012/06/Green%20Industrial%20Revolution.pdf>

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# Alternative Visions for a Community-Based Power in British Columbia

Posted on **September 12, 2012** by **elizabethperry493**

In a report released in June by the Canadian Centre for Policy Alternatives, John Calvert and Marc Lee warn that households and small businesses face steep rate increases for their hydro power as a result of the increasing demands of the province's natural resource extraction industries. The authors argue that these industries create very few jobs (only 1% of BC's employment) and a great deal of pollution. Their alternative vision is based on seven recommendations, starting with a change in energy planning to a balanced supply and demand framework, anchored in public power, and refocused on meeting the province's GHG reduction targets. "Aggressively pursuing the energy efficiency and conservation potential in BC, combined with support for small- and community-scale renewable technologies, can significantly reduce the need for new electricity supply. However, this will only happen if the government's energy-intensive resource extraction policies are dramatically scaled back".

*Powering our Province* seeks to assess the job creation potential for rural B.C. of independent power producers (IPP) and community-owned clean energy projects. The report identifies 5 immediate opportunities in: skilled trades and construction; community and First Nations engagement; scientific and environmental monitoring; plant operations and maintenance; and indirect business support. Key barriers faced include the lack of built infrastructure, difficulties accessing advanced education and skills training, and a shortage in capacity for skilled workers, due in part to competition and labour demand from out-of-province and urban centers. The report was published in August by Globe Advisors, and commissioned by the Southern Interior Beetle Action Coalition (SIBAC) and its project partners.

## LINK:

*Clean Electricity, Conservation and Climate Justice in BC: Meeting Our Energy Needs in a Zero-Carbon Future* is at:

<http://www.policyalternatives.ca/sites/default/files/uploads/publications/BC%20Office/2012/06/CCP A-BC-Clean-Electricity.pdf>

*Powering our Province* is available at:

[http://www.ruralbcgreenenergy.com/images/GLOBE\\_BC\\_Clean\\_Energy\\_Business\\_Opportunities\\_](http://www.ruralbcgreenenergy.com/images/GLOBE_BC_Clean_Energy_Business_Opportunities_)

# New U.S. Fuel Economy Standards Result in Job Creation

Posted on **September 12, 2012** by **elizabethperry493**

New fuel economy standards were announced by the U.S. government on August 28, to begin ramping up in the 2017 model year. It is expected that by 2025, fuel economy for cars and light trucks will have been reduced by 90%. Two new reports estimate the job creation that will occur as a result of the new regulations. The U.S. Environmental Protection Agency released a draft regulatory analysis document which, at 377 pages, is complex and comprehensive, looking at multiple impacts. Chapter 8, which deals with employment effects of the new regulations, surveys multiple models and concludes with a highly qualified statement that “For the regulated sector, the cost effect is expected to increase employment by 600 – 3,600 workers in 2017, depending on the share of that employment that is in the auto manufacturing sector compared to the auto parts manufacturing sector.”

A second report, *Gearing Up*, uses a “quasi-dynamic input-output analytical model” called Dynamic Energy Efficiency Policy Evaluation Routine (DEEPER). The resulting estimates show 50,000 new direct and indirect jobs will be created in light-duty vehicle manufacturing and assembly by 2030, with real wages projected to increase faster than job growth. The report also explores the job creation potential of increasing domestic content requirements in the U.S.

## LINKS:

*Draft Regulatory Impact Analysis: Proposed Rulemaking for 2017-2025 Light-Duty Vehicle Greenhouse Gas Emission Standards and Corporate Average Fuel Economy Standards* is at the EPA website at:

<http://epa.gov/otaq/climate/documents/420d11004.pdf>

*Gearing Up: Smart Standards Create Good Jobs Building Cleaner Cars* is available at the American Council for an Energy Efficient Economy (ACEEE) website at:



<http://www.aceee.org/sites/default/files/publications/researchreports/e127.pdf>

(registration required, free).

A summary of the topic, *New Car Rules Get it right on Energy, the Environment and the Economy*, is at the Centre for Climate and Energy Solutions at:

<http://www.c2es.org/blog/greenwaldj/new-car-rules-get-it-right-energy-environment-economy>

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## U.S. Studies of the Employment Impacts of Clean Energy Policies

Posted on **September 12, 2012** by [elizabethperry493](#)

Some highlights from U.S. studies published in the summer of 2012 include: A report from Michigan State University focuses on the investment and job impacts that would result from increasing Michigan's renewable energy generation to 25% of total electricity by the year 2025. The "25 by 25" proposal will appear on 2012 election ballot for Michigan voters. See *Projected Job and Investment Impacts of Policy Requiring 25% Renewable Energy by 2025 in Michigan*, at: [http://www.environmentalcouncil.org/mecReports/MSU\\_Jobs\\_Report\\_25x25.pdf](http://www.environmentalcouncil.org/mecReports/MSU_Jobs_Report_25x25.pdf)

Illinois ranked 4th in the United States in overall installed wind capacity and currently hosts 42 wind power projects. 23 of these projects have in excess of 50 MW capacity. A report published in June by the University of Illinois Center for Renewable Energy uses the JEDI model to analyze the economic impacts for those 23 projects. Findings: those 23 projects created approximately 19,047 full-time equivalent jobs during construction (with a total payroll of over \$1.1 billion) and support approximately 814 permanent jobs in rural Illinois areas.

See *Wind Energy Development in Illinois June 2012* at:

<http://renewableenergy.illinoisstate.edu/wind/publications/2012EconomicImpactReportForWeb.pdf>

The Center for American Progress published an analysis of the potential for clean energy installations on public land in Arizona, California, Colorado, Nevada, New Mexico and Utah. They project that these states could stimulate more than \$137 billion in investment in solar, wind, and geothermal energy over the next two decades, create more than 209,000 direct jobs, and provide electricity for 7 million homes. See *The Vast Potential for Renewable Energy in the American West: Developing Wind, Solar, and Geothermal Energy on Public Lands* at:

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## International Cooperation in Skills Training by Labour Unions

Posted on **September 12, 2012** by [elizabethperry493](#)

In August, the United Association of Plumbers and Pipe Fitters (UA) and the Plumbing Trades Employees Union (PTEU) of Australia signed an affiliation agreement for joint skills training and employment initiatives in the United States, Canada and Australia. The goal is to help streamline the building industry, reduce the shortage of skilled workers and tackle the global problem of climate change. North Americans can provide expertise in heavy industry as Australia embarks on expansion of their oil and gas refining and power generation; Australian expertise in water conservation will benefit North America as it seeks to address its aging water and sewer infrastructure. More details are at: <http://www.green-unions.com>

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## Training Models for Clean Energy Jobs

Posted on **September 12, 2012** by [elizabethperry493](#)

*Duke Forum for Law & Social Change* published a special edition dedicated to “A Just Transition to a Green Economy” in August. One paper discusses the adequacy of job preparation for a more sustainable energy economy in the U.S. and highlights “the failure of our current education and workforce system to provide for adequate and appropriate training-with the exception of a few innovative community college-industry partnerships”. The authors recommend that governments at all levels support workforce and economic development programs between community college and clean energy industry partnerships, and that the U.S. federal Perkins Career and Technical Education funds be directed toward large-scale experimentation with these partnerships.

**LINKS:**

*Duke Forum for Law & Social Change* Volume 4 (2012) special issue on “A Just Transition to a Green Economy” is available at: <http://scholarship.law.duke.edu/dflsc/> , including: Gordon, Soares and Steigleder, “Preparing America’s Workforce for Jobs in the Green Economy: A Case for Technical Literacy” and Farrell, “A Just Transition: Lessons Learned from the Environmental Justice Movement”.

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## Indicators to Measure Gender Representation in Climate Change Decision-Making

Posted on **September 12, 2012** by [elizabethperry493](#)

A new report from the European Institute for Gender Equality proposes a set of indicators for objective K.1 of the Beijing Platform for Action – i.e. to “Involve women actively in environmental decision making at all levels”. The report reviews the theoretical links between gender issues and climate change. It is the first EU-wide report on gender equality and climate change which provides comparable data at the for the 27 EU countries, in the form of a series of tables showing women’s current participation in climate change decision-making for ministries related to the environment, energy, and transportation, as well as at the EU and international levels. It also provides data about the proportion of women graduates among all graduates in scientific and technical fields related to climate change.

### LINKS:

*Review of the Implementation in the EU of area K of the Beijing Platform for Action: Women and the Environment* is available at:

<http://www.eige.europa.eu/content/document/gender-equality-and-climate-change-report>

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# Measuring Green Jobs by Time Spent Using Green Technology or Practices

Posted on **September 12, 2012** by **elizabethperry493**

The U.S. Bureau of Labor Statistics released the results of its Green Technologies and Practices Survey at the end of June 2012. The most frequently reported types of green technologies and practices were related to improving energy efficiency within the establishment (57%), and waste reduction as a result of operations (55%). About 854,700 jobs, representing 0.7 % of total U.S. employment, were held by workers who spent more than half of their time involved in green technologies and practices during the survey reference period of August 2011.

## LINKS:

Green Technologies and Practices Summary is available at:

<http://www.bls.gov/news.release/gtp.nr0.htm> , with links to technical documents.

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# Defining the Green Economy in Canada

Posted on **September 12, 2012** by **elizabethperry493**

Sustainable Prosperity, based at University of Ottawa, has released a White Paper which argues for a definition of green economy that encompasses all sectors, including but not limited to natural resources and the environmental goods and services sector. In providing its guiding principles for a framework for a green economy, the report also defines relevant concepts such as decoupling and natural capital. The report identifies the “priority challenges” for Canada to achieve a green economy, including: increasing resource productivity; identifying ecological limits; improving competitiveness and innovation; and increasing resilience to climate change and other shocks.

## LINKS:

*Towards a Green Economy for Canada* is available at the Sustainable Prosperity website at:  
<http://www.sustainableprosperity.ca/dl864&display>

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## Forest Biomass Updates

Posted on **September 12, 2012** by [elizabethperry493](#)

The B.C. Bioeconomy Committee was formed in July 2011 to provide advice on opportunities in the sector – specifically forest biomass- to the Minister of Jobs, Tourism and Innovation. The report, released over the summer of 2012, provides a snapshot, rather than a comprehensive study, of the wide range of activities already underway in B.C., as well as Alberta, Ontario, U.S., Europe and Finland. The Committee concludes that there is an urgent need for government leadership, and provides recommendations for action.

On July 19, Ontario announced that it is proceeding with the conversion of the Atikokan Generating Station from coal to biomass, as part of its plan to eliminate coal-fired electricity generation by the end of 2014. The government projects that the conversion will create 200 construction jobs, as well as preserve existing long-term jobs because of a provision that the biomass must be sourced from Ontario's forests and processed in Ontario.

On September 13th the Bioenergy Research and Demonstration Facility at the University of British Columbia was officially opened, to convert local, renewable wood fuel to energy by means of a biomass gasification technology. Note that the federal government also announced funding on September 13 for the Fundy Ocean Research Centre for Energy (FORCE) tidal energy project in Halifax.

### LINKS:

B.C. Bioeconomy report is available at:

[http://www.gov.bc.ca/jti/down/bio\\_economy\\_report\\_final.pdf](http://www.gov.bc.ca/jti/down/bio_economy_report_final.pdf)

News Release: Ontario Government converts Coal Plant to Biomass at:

<http://news.ontario.ca/mei/en/2012/07/ontario-converts-coal-plant-to-biomass-creates-200-jobs.html>

News Release: Harper Government Supports Innovative Renewable Energy Project and Innovation in British Columbia September 13, 2012 at: <http://www.nrcan.gc.ca/media-room/news->

release/2012/6521, with a Backgrounder at: <http://www.nrcan.gc.ca/media-room/news-release/2012/6519>

The Backgrounder re FORCE is at:

<http://www.nrcan.gc.ca/media-room/news-release/2012/6515>

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## Australian Carbon Price Directs Support to Industry and Jobs

Posted on **September 11, 2012** by [elizabethperry493](#)

Australia's carbon tax of \$23 per tonne was authorized by legislation in November 2011 and began on July 1st 2012. The price, which affects approximately 500 facilities that emit more than 25,000 tonnes of CO2 emissions per year, is fixed for the first 3 years and then will rise at 2.5% per year, until July 1 2015, when it will transition to a fully flexible price under an emissions trading scheme. The government has pledged to allocate approximately 40% of carbon price revenue to help businesses and support jobs; the Jobs and Competitiveness Program has earmarked \$9.2 billion for assistance until 2015- including \$1.3 billion for a Coal Sector Jobs Package. The *Clean Energy Act 2011* and its amendments – including amendments in June and August 2012 – are compiled and summarized at:

<http://www.climatechange.gov.au/en/government/clean-energy-future/legislation.aspx>

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## Review of the B.C. Carbon Tax

Posted on **September 11, 2012** by [elizabethperry493](#)

The B.C. carbon tax, which began in 2008, applies to the purchase or use of fuels within the province, with revenues being returned to citizens in the form of reductions in other taxes. Its price is now frozen, awaiting the conclusion of a government review of the program, including revenue neutrality and the impact on the competitiveness of B.C. businesses, especially agriculture and food producers. Citizen's submissions were accepted until the end of August 2012; the review continues to the end of the year. In June 2012, Sustainable Prosperity published its own review of B.C.'s carbon tax, by Stewart Elgie. Their report states that B.C.'s GDP growth has outpaced the rest of Canada's by a small margin since 2008, while use of petroleum fuels has declined by

15.1% and GHG emissions have also shown a substantial reduction. See the B.C. Ministry of Finance Review website at:

[http://www.fin.gov.bc.ca/tbs/tp/climate/carbon\\_tax.htm](http://www.fin.gov.bc.ca/tbs/tp/climate/carbon_tax.htm)

For official documents, see *British Columbia's Carbon Tax Shift: the First Four Years* at the Sustainable Prosperity website at: <http://www.sustainableprosperity.ca/dl872&display> .

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## Measuring Sustainable Manufacturing Practices

Posted on **September 11, 2012** by **elizabethperry493**

The Sustainable Apparel Coalition (SAC) launched the Higg Index in July 2012, to measure the environmental life cycle of apparel production (materials, manufacturing, packaging, transportation, use, and end-of-life). The vision is to expand the index to include the footwear industry, and to measure social and labour impacts. SAC, a trade organization of retailers, manufacturers, NGOs, academics and government representatives, claims to represent more than a third of the global apparel and footwear industries, including Walmart, NIKE, Marks and Spencer, and Levi's. Their website is at: <http://www.apparelcoalition.org>

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## WTO Decision Re Ontario's Fit Program is Delayed

Posted on **September 11, 2012** by **elizabethperry493**

The Chairman of the World Trade Organization Dispute Settlement Board announced in June that, due to the complexities of the dispute, the board will not rule until the end of November 2012 in the international complaint against the domestic content requirements of Ontario's Feed-in Tariff program. The decision had been scheduled for September 2012. Details are at: [http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds412\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds412_e.htm)

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# Public Opinion about Climate Change

Posted on **September 11, 2012** by **elizabethperry493**

An Angus Reid poll released in late June 2012 shows that 58% of Canadians believe “it is more important to protect the environment, even at the risk of hampering economic growth”. Only 45% of Americans and 43% of Britons agreed with that statement. The summary is at:

<http://www.angus-reid.com/polls/45431/global-warming-skepticism-higher-in-u-s-and-britain-than-canada/> with a link to the full report and tables.

In the U.S., a survey conducted by the University of Michigan compares the levels of concern for climate change among adults between 32 and 52 years of age. Only 16% were very or moderately interested in the issue (down from 22% in 2009). The detailed report, including where the cohort sources their information, and possible explanations for the lack of engagement is: Miller, Jon D. “Climate Change: Generation X Attitudes, Interest, and Understanding” in *Generation X Report* v. 1 #3 (Summer 2012) at: <http://www.sampler.isr.umich.edu/wp-content/uploads/2012/07/GenXReport.pdf>

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## Views on Canada's Energy Policy

Posted on **September 11, 2012** by **elizabethperry493**

The Standing Senate Committee on Energy, the Environment and Natural Resources released *Now or Never* on July 19th, after 3 years of consultations and hearings. The unanimous report presents 13 priorities for action to achieve long-term and affordable energy solutions.

### LINKS:

*Now or Never: Canada must act urgently to seize its place in the new energy world order* is available at: <http://www.parl.gc.ca/Content/SEN/Committee/411/enev/rep/rep04jul12-e.pdf> and the French version, *Maintenant ou jamais: Le Canada doit agir d'urgence pour prendre sa place dans le nouvel ordre mondial de l'énergie*, is at: <http://www.parl.gc.ca/Content/SEN/Committee/411/enev/rep/rep04jul12-f.pdf>

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# New Energy Policy Proposes to End Nuclear Power in Japan

Posted on **September 11, 2012** by **elizabethperry493**

In Japan's first review of its energy policy after the Fukushima disaster of 2011, a panel of the Japanese Cabinet made public its recommendations on September 14th. Part of the proposed new policy includes phasing out nuclear power by the 2030s – mainly by retiring aging reactors and not replacing them. Japan's big business lobby is vehemently opposed to such a plan, but strong anti-nuclear public opinion has been evidenced by weekly mass rallies in front of the prime minister's office, and in submissions to public hearings held by the government as part of its review.

"Japan Will Try to Halt Nuclear Power by the End of the 2030s" (Sept. 14 2012) at the New York Times website at: [http://www.nytimes.com/2012/09/15/world/asia/japan-will-try-to-halt-nuclear-power-by-the-end-of-the-2030s.html?pagewanted=all&\\_moc.semityn.www](http://www.nytimes.com/2012/09/15/world/asia/japan-will-try-to-halt-nuclear-power-by-the-end-of-the-2030s.html?pagewanted=all&_moc.semityn.www)

A summary of the options presented for public consideration is at Options for Energy and the Environment: The Energy and Environment Council Decision at: [http://www.npu.go.jp/policy/policy09/pdf/20120720/20120720\\_en.pdf](http://www.npu.go.jp/policy/policy09/pdf/20120720/20120720_en.pdf)

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## Progress on Canada's GHG Emissions?

Posted on **September 11, 2012** by **elizabethperry493**

In August, Environment Canada released its 2012 report documenting Canada's emission trends. See *Canada's Emission Trends 2012* at: [http://www.ec.gc.ca/Publications/253AE6E6-5E73-4AFC-81B7-9CF440D5D2C5%5C793-Canada%27s-Emissions-Trends-2012\\_e\\_01.pdf](http://www.ec.gc.ca/Publications/253AE6E6-5E73-4AFC-81B7-9CF440D5D2C5%5C793-Canada%27s-Emissions-Trends-2012_e_01.pdf) (English) or *Tendances en matière d'émissions au Canada 2012* at: [http://www.ec.gc.ca/Publications/253AE6E6-5E73-4AFC-81B7-9CF440D5D2C5%5C793-Canada%27s-Emissions-Trends-2012\\_f\\_01.pdf](http://www.ec.gc.ca/Publications/253AE6E6-5E73-4AFC-81B7-9CF440D5D2C5%5C793-Canada%27s-Emissions-Trends-2012_f_01.pdf) (French).

P.J. Partington of the Pembina Institute states: “The progress reflected in this year’s emissions trends report is largely the result of updated baselines and accounting rules for greenhouse gas pollution, as well as the considerable action some provinces are taking to reduce their emissions.” See <http://www.pembina.org/media-release/2364>. Climate Action Tracker, in its September Update, states: “Canada’s government uses uncommon methods of comparing and projecting emissions, while its 2020 reduction target is unchanged and still estimated as “inadequate” by a wide margin.” [http://climateactiontracker.org/assets/publications/briefing\\_papers/2012-09-04\\_Briefing\\_paper\\_Bangkok.pff.pdf](http://climateactiontracker.org/assets/publications/briefing_papers/2012-09-04_Briefing_paper_Bangkok.pff.pdf)

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## Domestic Content Requirements and Green Employment

Posted on **June 11, 2012** by [elizabethperry493](#)

Sustainable Prosperity, a research and policy network based at the University of Ottawa, released a policy brief in April discussing the domestic content requirements for renewable energy manufacturing in Canada. The policy brief focused on the question of whether domestic

content requirements are effective at increasing ‘green’ employment. The brief looks at various policies in effect in Canada (namely, Quebec and Ontario) and internationally, as well as international trade agreements relevant to domestic content requirements. At least in the short-run, domestic content requirements are likely to increase the cost of renewable energy generating equipment, and therefore also the developer’s cost of generating renewable energy. Depending on the type of renewable energy support policy with which the domestic content requirement is linked, this may have the effect of increasing consumers’ electricity prices, or reducing the number of renewable energy facilities built. In the last case, it is possible that the reduced renewable energy output leads to overall reductions in employment in renewable energy generation and manufacturing.

### LINK:

Sustainable Prosperity news release with link to policy brief:

<http://www.sustainableprosperity.ca/article2445>

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# Opportunities for Decent Work in a Green Economy

Posted on **June 11, 2012** by **elizabethperry493**

The transformation to a greener economy could generate 15 to 60 million additional jobs globally over the next two decades and lift tens of millions of workers out of poverty, according to a new report led by the international Green Jobs Initiative. The study, *Working Towards Sustainable Development: Opportunities for Decent Work and Social Inclusion in a Green Economy*, says that these gains will depend on whether the right set of policies are put in place. At least half of the global workforce – the equivalent of 1.5 billion people – will be affected by the transition to a greener economy. This comprehensive report touches on specifics relating to eight key sectors which are expected to play a central role and be most affected by the transition: agriculture, forestry, fishing, energy, resource-intensive manufacturing, recycling, building and transport.

## LINKS:

Summary and overview; *Working Towards Sustainable Development: Opportunities for Decent Work and Social Inclusion in a Green Economy*:

[http://www.ilo.org/global/about-the-ilo/press-and-media-centre/news/WCMS\\_181795/lang-en/index.htm](http://www.ilo.org/global/about-the-ilo/press-and-media-centre/news/WCMS_181795/lang-en/index.htm)

*Working Towards Sustainable Development: Opportunities for Decent Work and Social Inclusion in a Green Economy*. Full Report

[http://www.ilo.org/wcmsp5/groups/public/—ed\\_emp/—emp\\_ent/documents/publication/wcms\\_181836.pdf](http://www.ilo.org/wcmsp5/groups/public/—ed_emp/—emp_ent/documents/publication/wcms_181836.pdf)

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## Life Cycle Assessment of the Canadian Oil Sands Considered

Posted on **June 11, 2012** by **elizabethperry493**

The first section of this report discusses the basic methodology of life-cycle assessments and examines the choice of boundaries, design features, and input assumptions. The second section of the report compares several of the publicly available assessments of life-cycle GHG emissions data for Canadian oil sands crudes against each other, against those of other global reference crudes, and against those of other fossil fuel resources. The third section examines some of the specific findings of the Department of State's commissioned study for the Keystone XL pipeline. The report concludes with a discussion of some tools for policymakers who are interested in using these assessments to investigate the potential impacts of U.S. energy policy choices on the environment.

**LINK:**

From the Congressional Research Office in the U.S.: *Canadian Oil Sands: Life-Cycle Assessments of Greenhouse Gas Emissions*:

<http://www.fas.org/sgp/crs/misc/R42537.pdf>

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## Policy Brief Compares UK and Canadian Climate Policies

Posted on **June 11, 2012** by **elizabethperry493**

Sustainable Prosperity and the University of Ottawa's Institute of the Environment marked the 20th anniversary of the Rio Earth Summit by presenting a two-day conference, on May 1st and 2nd "Building on Rio + 20: Canada's Role and Priorities in a Global Green Economy", to examine the policy and economic dimensions of Canada in a global green economy. A policy brief released at the conference looks at the vast gap between the level of action and commitment in the UK when compared to Canada in terms of climate policy at the national level. The UK has an aggressive and comprehensive action plan to decarbonise its economy, whereas Canada's Federal government is pursuing a sector-by-sector regulatory approach, with fragmented action between the Federal government and the provinces.

**LINKS:**

*The United Kingdom Climate Policy: Lessons for Canada.* Summary and link to policy brief:  
<http://www.sustainableprosperity.ca/article2716>

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## Nova Scotia Releases Its Marine Renewable Energy Strategy

Posted on **June 11, 2012** by [elizabethperry493](#)

Nova Scotia released its Marine Renewable Energy Strategy in May. Wave and offshore wind power are part of the mix in the strategy, but tides are the primary focus, given Nova Scotia's unique advantage in developing and growing a new tidal industry. The Strategy focuses on research, development, and regulatory initiatives that have been established to achieve Nova Scotia's vision to be a global leader in the development of marine renewable energy technology and expertise for domestic and export markets. This report doesn't go into any detail about job creation.

**LINKS:**

Nova Scotia Department of Energy website:

<http://www.gov.ns.ca/energy/>

Nova Scotia's Marine Renewable Energy Strategy document:

<http://www.gov.ns.ca/energy/resources/publications/Nova-Scotia-Marine-Renewable-Energy-Strategy-May-2012.pdf>

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# Is Canada Suffering from ‘Dutch Disease’?

Posted on **June 11, 2012** by **elizabethperry493**

Several recent studies have been in the news concerning the concept of “Dutch disease” in Canada.

*Dutch Disease or Failure to Compete: A Diagnosis of Canada’s Manufacturing Woes*, was published by the Institute for Research on Public Policy, and examines the linkages for 80 different manufacturing industries using an empirical model that accounts for changes in global demand and competitive pressures as well as energy-induced strengthening of the dollar. Their results show that only 25 of the 80 industries show a significant negative relationship between the US-Canada exchange rate and output – mostly small labour-intensive industries such as textiles and apparel. Interestingly in light of the recently announced layoffs at GM Oshawa, the study concludes that “automotive industries do not show symptoms of Dutch disease; their weakness stems from cyclical changes in demand and lagging productivity growth”.

The Pembina Institute and The Macdonald Laurier Institute both released their own studies on this issue on May 30. The Macdonald Laurier Institute has released a commentary titled, *No Dutch Treat: Oil and Gas Wealth Benefits All of Canada*. In this report, authors Robert Murphy and Brian Crowley argue that even provinces not directly involved in oil and gas enjoy large gains from such activity in other provinces.

The Pembina report, *In the Shadow of the Boom: How oil sands development is reshaping Canada’s economy*, reviews the extent to which oil sands production and exports are affecting Canada’s economy, and explores the longer-term economic implications of increased reliance on oil sands expansion to support economic growth and generate public revenue.

## LINKS:

*Dutch Disease or Failure to Compete?* published by Institute for Research in Public Policy (IRPP):  
[http://www.irpp.org/pubs/IRPPstudy/IRPP\\_Study\\_no30.pdf](http://www.irpp.org/pubs/IRPPstudy/IRPP_Study_no30.pdf)

No Dutch Treat: Oil and Gas Wealth Benefits All of Canada,

(MacDonald Laurier Study) press release and link to full document is at:

<http://www.macdonaldlaurier.ca/commentary-no-dutch-treat-oil-and-gas-wealth-benefits-all-parts-of-canada/>

In the Shadow of the Boom: How oil sands development is reshaping Canada's economy,

press release and link to document is at:

<http://www.pembina.org/media-release/2344>

"Is Canada grappling with Dutch disease?" *The Globe and Mail*, May 16th:

<http://www.theglobeandmail.com/report-on-business/economy/manufacturing/is-canada-grappling-with-dutch-disease/article2433816/>

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## Creating a Culture of Sustainability in the Health Care Sector

Posted on **June 11, 2012** by [elizabethperry493](#)

Embracing sustainability has tangible financial rewards and creates jobs, according to a new report by the Health Care Research Collaborative. The report, *Creating a Culture of Sustainability: Leadership, Coordination and Performance Measurement Systems in Healthcare*, was conducted by the Health Care Research Collaborative, a collaboration of Health Care Without Harm and the Healthier Hospitals Initiative, and sponsored by the Robert Wood Johnson Foundation in the U.S. The report found that leadership engagement and incorporation of sustainability as a high-level goal was key to the success of the program. Also found was that jobs are being created as health systems are finding that sustainability efforts need dedicated staff who are responsible for it, and cost savings inherent in sustainability help pay for these staff members as well as to make investments in other hospital programs.

## LINKS:

*Creating a Culture of Sustainability: Leadership, Coordination and Performance Measurement Systems in Healthcare.* A summary of the report can be found at:

[http://www.noharm.org/us\\_canada/news\\_hcwh/2012/apr/hcwh2012-04-26a.php](http://www.noharm.org/us_canada/news_hcwh/2012/apr/hcwh2012-04-26a.php)

Full document:

[http://www.noharm.org/lib/downloads/other/Creating\\_a\\_Culture\\_of\\_Sustainability.pdf](http://www.noharm.org/lib/downloads/other/Creating_a_Culture_of_Sustainability.pdf)

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## Clean Mining Alliance Created in Vancouver, B.C.

Posted on **June 11, 2012** by **elizabethperry493**

A new industry association has been launched aimed at supporting and advocating technological advancements to make the mining industry cleaner and more environmentally responsible. The Clean Mining Alliance is a newly formed international non-profit organization based in Vancouver. Its founding members include the Centre for Environmental Research in Minerals, Metals and Materials (CERM3), part of the University of British Columbia Department of Mining Engineering.

More information on the Clean Mining Alliance, visit their website at: <http://www.cleanmining.org/>

or the University website (UBC CERM3) at:

<http://www.cerm3.mining.ubc.ca/about.html>

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# Tariffs Being Applied to Chinese-Made Solar Modules

Posted on **June 11, 2012** by **elizabethperry493**

In a long-awaited decision, the U.S. Commerce Department has issued a preliminary decision on May 17 to apply tariffs to Chinese-made solar modules being imported into the U.S. The tariffs range from 31 percent to 250 percent. The preliminary tariffs were issued after a lengthy investigation by the Commerce Department into whether Chinese companies are “dumping” solar panels into the U.S. market below cost. These tariffs follow a March decision to issue small countervailing duties on Chinese module producers that are getting illegal domestic subsidies, according to Commerce.

For a summary, see the statement by the American Coalition for Solar Manufacturing at: <http://www.americansolarmanufacturing.org/news-releases/05-17-12-commerce-department-ruling.htm>

A detailed technical report is available from the U.S. International Trade Administration at: <http://ia.ita.doc.gov/download/factsheets/factsheet-prc-solar-cells-ad-prelim-20120517.pdf>

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# Life Cycle Thinking for a Policy Makers and Business Managers

Posted on **June 11, 2012** by **elizabethperry493**

A new European Union Joint Research Centre (JRC) report provides key information for policy makers and business managers on how to assess the environmental impacts of products and services through more consistent and better quality life cycle assessments. Life Cycle Thinking (LCT) helps to assess the sustainability of supply chains, use, and end-of-life management options for goods and services. A key component of the Europe 2020 strategy, ‘life cycle thinking’ is being used to understand the full environmental impacts of products and services, from design through produce use and end-of-life.

European Commissions Life Cycle Thinking and Assessment website:

<http://lct.jrc.ec.europa.eu/>

Joint Research Centre summary with links to the LCA report:

[http://ec.europa.eu/dgs/jrc/index.cfm?id=1410&obj\\_id=14840&dt\\_code=NWS&lang=en&ori=HPG](http://ec.europa.eu/dgs/jrc/index.cfm?id=1410&obj_id=14840&dt_code=NWS&lang=en&ori=HPG)

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## Making Cities Resilient as Global Disaster Losses Hit \$500 Billion

Posted on **June 11, 2012** by [elizabethperry493](#)

The UN Office of Disaster Risk Reduction has launched a new phase of the “Making Cities Resilient Campaign” which now includes 1,020 cities around the globe. The *Handbook for Local Government Leaders: How to Make Cities More Resilient* was officially launched as part of the world disaster reduction campaign, which has been extended to 2015. The new Handbook was developed at the request of city leaders to explain why building disaster resilience is necessary, and what kind of strategies and actions are required by cities and local governments to achieve resilience. Summary with links to the Handbook, press release and campaign information:

<http://www.unisdr.org/archive/26728>

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## York University Students Can Pursue a Certificate in Sustainable Energy

Posted on **June 11, 2012** by [elizabethperry493](#)

Students at the undergraduate level enrolled in the Bachelor of Environmental Studies (BES) at York University in Toronto now have the option of pursuing a specialty Certificate in Sustainable Energy. This certificate program formally recognizes and integrates a suite of courses which offer BES students applied skills in the field of sustainable energy. For the Certificate in Sustainable Energy, students have the option of completing an internship placement with an organization in the sustainable energy field. At the graduate level, Master in Environmental Studies (MES) students develop their own unique areas of original research, with the possibility of internships in with both public and private organizations. The Certificate is part of the Sustainable Energy Initiative (SEI) in the Faculty of Environmental Studies (FES).

For information on the Sustainable Energy Initiative and the Certificate in Sustainable Energy see the SEI website at: <http://sei.info.yorku.ca/>

Or the SEI brochure: <http://sei.info.yorku.ca/files/2011/01/SEI-Brochure-web.pdf>

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## Black Out Speak Out Campaign Launched

Posted on **June 11, 2012** by **elizabethperry493**

Launched on May 7, *Black Out Speak Out* (or *Silence, on parle!* in French) invites Canadian organizations, businesses and citizens to darken their websites on June 4, to protest changes introduced in the federal government's budget act (C-38). The *Black Out Speak Out* initiative is led by CAPE, CPAWS, David Suzuki Foundation, Ecojustice, Environmental Defence, Equiterre, Greenpeace, Nature Canada, Pembina Institute, Sierra Club Canada, West Coast Environmental Law, and WWF Canada. Go to Black Out Speak Out website at: <http://www.blackoutspeakout.ca/> or <http://www.silenceonparle.ca/>

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## “Golden Rules” for Natural Gas Extraction

Posted on **June 11, 2012** by **elizabethperry493**

On May 29, the International Energy Association released a special World Energy Outlook Report on natural gas, including fracking. According to one of the authors, “If this new industry is to prosper, it needs to earn and maintain its social license to operate,” *Golden Rules for a golden age of Gas* is at: <http://www.worldenergyoutlook.org/goldenrules/>

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# Building Ontario's Green Economy: A Road Map

Posted on **May 11, 2012** by **elizabethperry493**

This report by Blue Green Canada recognizes the efforts taken by the province of Ontario to become a leader in the green economy. The report makes recommendations for ways Ontario can further strengthen the green economy and pursue a resource efficient, socially inclusive, low carbon economy. The report contains a series of recommendations for a variety of sectors, including low-carbon transportation, cap and trade, energy efficient buildings, and waste management.

## LINKS:

*Building Ontario's Green Economy: A Road Map. Summary:*

<http://environmentaldefence.ca/reports/building-ontarios-green-economy-road-map>

*Building Ontario's Green Economy: A Road Map. Report:*

[http://environmentaldefence.ca/sites/default/files/report\\_files/GreenEconomyRoadmap\\_FINAL.pdf](http://environmentaldefence.ca/sites/default/files/report_files/GreenEconomyRoadmap_FINAL.pdf)

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## Promoting Safety and Health in the Green Economy: A Report Released by the International Labour Organization (ILO)

Posted on **May 11, 2012** by **elizabethperry493**

This report highlights occupational safety and health (OSH) as an integral part of the promotion of green jobs and a greener economy to achieve economic and social development that is also environmentally sustainable. The report, titled *Promoting Safety and Health in a Green Economy*, looks at different “green industries” from an OSH perspective. Industries discussed include all forms of renewable energy, waste management (including shipbreaking), agriculture, forestry, construction, and the special case of nuclear energy.

#### LINKS:

*Promoting Safety and Health in a Green Economy*. Summary and link to the report:

[http://www.ilo.org/safework/info/publications/WCMS\\_175600/lang-en/index.htm](http://www.ilo.org/safework/info/publications/WCMS_175600/lang-en/index.htm)

*Promoting Safety and Health in a Green Economy*. Summary and link to the report:

[http://www.ilo.org/wcmsp5/groups/public/—ed\\_protect/—protrav/—safework/documents/publication/wcms\\_175600.pdf](http://www.ilo.org/wcmsp5/groups/public/—ed_protect/—protrav/—safework/documents/publication/wcms_175600.pdf)

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## Growing Green and Decent Jobs

Posted on **May 11, 2012** by [elizabethperry493](#)

A new International Trade Union Confederation (ITUC) report with economic analysis by the Millennium Institute shows how investing 2% of GDP in the green economy in each of the next five years could create up to 48 million new jobs. The report analyzes 7 industries in 12 countries across Asia-Pacific, Africa, the Americas and Europe, including: Germany, Spain, Bulgaria, Brazil, Dominican Republic, the USA, South Africa, Ghana, Tunisia, Indonesia, Nepal and Australia.

#### LINKS:

*The Growing Green and Decent Jobs* Report can be found here:

<http://www.ituc-csi.org/growing-green-and-decent-jobs,11011.html>

Summary *Growing Green and Decent Jobs*:

<http://www.ituc-csi.org/summary-growing-green-and-decent.html?lang=en>

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## Provincial Climate Change Plans Compared

Posted on **May 11, 2012** by [elizabethperry493](#)

In the absence of effective policies from Canada's federal government to tackle global warming, many provinces have stepped up to implement their own plans and policies. *All Over the Map: A Comparison of Provincial Climate Change Plans* looks at the strengths and weaknesses of each province's plan. This report by the David Suzuki Foundation documents the shift, assessing each province's climate change plans and programs and comparing the relative merits of each. It updates the status of each province's efforts, and provides recommendations for moving forward.

### LINKS:

*All Over the Map: A Comparison of Provincial Climate Change Plans*

Report:<http://www.davidsuzuki.org/publications/downloads/2012/All%20Over%20the%20Map%202012.pdf>

Background and Interactive Map:

<http://www.davidsuzuki.org/publications/reports/2012/all-over-the-map-2012/>

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## Post Carbon Pathways: Reviewing Post Carbon Economy Transition Strategies

Posted on **May 11, 2012** by [elizabethperry493](#)

This report aims to provide a concise overview of learning from 18 of the most comprehensive and innovative large-scale post carbon economy transition strategies. Around the world, detailed policy and research initiatives are demonstrating that a rapid transition to a post carbon economy is both technologically and economically feasible. However, the latest climate science shows that the window for effective action is rapidly closing. Strategies to reduce emissions at the required scale and speed will need to be implemented in the next five to ten years if they are to significantly reduce the risk of runaway climate change.

The report is the first stage in an ongoing Post Carbon Pathways project designed to strengthen understanding of the most effective ways of overcoming barriers to the rapid implementation of post carbon economy transition strategies – with an emphasis on plans pitched at the speed and scale capable of having some real chance of reducing the risk of runaway climate change. Published by the Melbourne Sustainable Society Institute, University of Melbourne and the Centre for Policy Development.

#### LINKS:

*Post Carbon Pathways: Reviewing Post Carbon Economy Transition Strategies.*

Link to briefing paper, summary, full report, and slides:

<http://www.postcarbonpathways.net.au> and;

Link to the full report:

[http://cpd.org.au/wp-content/uploads/2012/03/CPD\\_OP17\\_Post\\_Carbon\\_Pathways.pdf](http://cpd.org.au/wp-content/uploads/2012/03/CPD_OP17_Post_Carbon_Pathways.pdf)

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## Debating the Green Economy in the Lead Up to Rio+20

Posted on **May 11, 2012** by **elizabethperry493**

This document is an overview of the international context of perceptions, actions and political discussions relating to the green economy, leading up to the Rio + 20 Conference in June. *The Green Economy – The New Magic Bullet?* considers the debate over exactly what a green economy is and should be with what measures and instruments it should be implemented, explaining that this has not yet been defined and is the topic of intense political debate. The report

compares and contrasts the initiatives and definitions of a green economy by the UNEP and OECD in the context of the Rio + 20 Negotiations. Published by the Heinrich Boell group in Washington D.C.

#### LINKS:

*The Green Economy – The New Magic Bullet? Expectations from the Rio + 20 Conference at:*

[http://www.boell.org/downloads/Unmuessig\\_Green\\_Economy\\_Magic\\_Bullet.pdf](http://www.boell.org/downloads/Unmuessig_Green_Economy_Magic_Bullet.pdf)

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## Canada's Greenhouse Gas Emissions Released

Posted on **May 11, 2012** by [elizabethperry493](#)

The Government of Canada simultaneously released the National Inventory Report, the Greenhouse Gas Reporting Program facility-level data and related overview report, and the greenhouse gas indicators of the Canadian Environmental Sustainability Indicators program in April. The Government of Canada has praised the data pointing out that emissions have not increased while the economy has grown. Critics point out however, that at the current rate, Canada will not meet the targets set for 2020.

Canada and other signatories to the United Nations Framework Convention on Climate Change have submitted the National Inventory data to the UNFCCC, which has released the national inventory submissions of greenhouse gas emissions by all signatories. The report includes sectoral and trend tables for all greenhouse gas (GHG) emissions and removals, and sectoral background data tables for reporting implied emission factors and activity data.

#### LINKS:

*Inventory of GHG emissions from Canada, 1990- 2010.* See full report at the UNFCCC website:

[http://unfccc.int/national\\_reports/annex\\_i\\_ghg\\_inventories/national\\_inventories\\_submissions/items/6598.php](http://unfccc.int/national_reports/annex_i_ghg_inventories/national_inventories_submissions/items/6598.php)



Executive summary at Environment Canada website:

<http://www.ec.gc.ca/ges-ghg/default.asp?lang=En&n=8BAF9C6D-1>

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## Good Jobs, Green Jobs Regional Conferences

Posted on **May 11, 2012** by [elizabethperry493](#)

This year the Blue Green Alliance, USA is holding four regional conferences, rather than one national conference in order to enable and encourage more participation. Conferences have been held in Atlanta, Los Angeles, and Philadelphia, with the final conference being held May 10-11th in Detroit. Plenary sessions from the regional conference held in Philadelphia on April 3rd and 4th are available in video format on the conference website. Information on the conference can be found on the website: <http://www.greenjobsconference.org/>

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## Ontario Announces Clean Energy Task Force

Posted on **May 11, 2012** by [elizabethperry493](#)

The Task Force has been established to help broaden the Province's energy focus. The Task Force will facilitate collaboration within Ontario's clean energy industry to identify export markets, marketing opportunities and approaches to demonstrate Ontario's advanced clean energy systems.

Ontario's Clean Energy Task Force:

<http://news.ontario.ca/mei/en/2012/04/members-of-the-ontario-clean-energy-task-force.html>

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# Mexico's House of Representatives Approve Climate Change Act

Posted on **May 11, 2012** by [elizabethperry493](#)

On April 19th, Mexico passed landmark legislation: the far-reaching Climate Change Act that will impose binding emission reduction targets on successive governments. The Act will also provide the government with the power to introduce new renewable energy incentives, phase out fossil fuel subsidies, and potentially introduce emissions trading mechanisms. The legislation requires the government to cut emissions by 30 per cent by 2020 and ensure that 35% of the country's electricity should come from renewable sources by 2024, and with an end goal of cutting carbon emissions 50 per cent by 2050.

For commentary summarizing aspects of Mexico's Climate Change Act at Nature News online, go to: <http://www.nature.com/news/mexico-passes-climate-change-law-1.10496>

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## Groups Mobilizing for Rio+20 Conference, June 20-22nd

Posted on **May 11, 2012** by [elizabethperry493](#)

The United Nations Conference on Sustainable Development (Rio+20) will take place over three days, June 20-22, 2012. The theme of the Conference is the "Green Economy" and the overall theme is "The Future We Want". The conference website, with an introductory brief about green jobs is at:

<http://www.uncsd2012.org/rio20/index.php?page=view&type=400&nr=224&menu=45>

Chatham House in the U.K has published "Rio+20 and the Global Environment: Reflections on Theory and Practice", a special issue of *International Affairs*, vol. 88, no.3, May 2012. Go to Chatham House Online: <http://www.chathamhouse.org/publications/ia> or

Wiley Online: <http://onlinelibrary.wiley.com/doi/10.1111/inta.2012.88.issue-3/issuetoc>

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# Canada's Greenest Employers Announced

Posted on **May 11, 2012** by **elizabethperry493**

Launched in 2007, the Canada's Greenest Employers competition is organized by the editors of the Canada's Top 100 Employers project. This special designation recognizes the employers that lead the nation in creating a corporate culture of environmental awareness, have developed exceptional earth-friendly initiatives and attracting people to their organizations because of their environmental leadership.

Employers are evaluated based on the following criteria: (1) the unique environmental initiatives and programs they have developed; (2) the extent to which they have been successful in reducing the organization's own environmental footprint; (3) the degree to which their employees are involved in these programs and whether they contribute any unique skills; and (4) the extent to which these initiatives have become linked to the employer's public identity and whether they attract new people to the organization.

Greenest Employers website, with a list of employers:

<http://www.canadastop100.com/environmental/>

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## Earth Hour Challenge – Actions for a Day or a Year?

Posted on **May 11, 2012** by **elizabethperry493**

The International Trade Union Confederation (ITUC) supported the Earth Hour campaign by WWF, which was held on March 31. ITUC recognizes the influence unions have in communities and workplaces to act on issues of climate change and is challenging individuals and workplaces to take actions throughout the year.

Introducing the pledge for workplaces and individuals:

<http://www.sustainlabour.org/noticia.php?lang=EN&idnoticia=385>

Suggested actions to be taken in workplaces:

## Profiles of British Columbia's Green Economy

Posted on **April 12, 2012** by [elizabethperry493](#)

British Columbia is one of the members of the Pacific Coast Collaborative (PCC), along with California, Oregon, and Washington. The PCC commissioned GLOBE Advisors and the Center for Climate Strategies to identify opportunities for accelerated job creation and investment in a clean economy, defined as clean energy supply and energy efficiency, green buildings, clean transportation, and climate resiliency. The resulting report, *The West Coast Clean Economy*, released in March 2012, estimates clean economy contributions of \$47.2 billion to GDP, and more than 508,000 full-time equivalent direct production jobs for the entire West Coast region in 2010. British Columbia is profiled, summarizing key policy, program and investment initiatives; B.C.'s 2010 current clean economy GDP is estimated at \$7.4 billion and the number of direct jobs at 62,593.

A briefer profile based on a broader definition of green economy was released by B.C. Premier Christy Clark at the 2012 GLOBE Conference in Vancouver on March 14. *B.C.'s Green Economy: Growing green jobs* summarizes the policy initiatives which promote investment, cites exemplary companies, and provides statistics on job creation and training in each of B.C.'s clean tech, mining, forestry, tourism, agriculture, and transportation sectors. Statistics are given for 2008, estimating 117,160 direct and 48,840 indirect full-time equivalent green jobs (or 7.2% of total employment) for the entire province.

### LINKS:

*The West Coast Clean Economy* is at:

[http://globeadvisors.ca/media/3322/wcce\\_report\\_web\\_final.pdf](http://globeadvisors.ca/media/3322/wcce_report_web_final.pdf)

*B.C.'s Green Economy: Growing green jobs* is at a B.C. government website at:

[http://www.bcge.ca/BCs\\_Green\\_Economy\\_print.pdf](http://www.bcge.ca/BCs_Green_Economy_print.pdf)

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# Ontario Feed-In Tariff Review Affirms Domestic Content Regulations, Lowers Prices

Posted on **April 12, 2012** by **elizabethperry493**

The Ontario government announced on March 22 that it will accept all recommendations contained in the 2-year review of the Feed in Tariff program, including continuation of the domestic content regulations which encourage local manufacturing, and “creating more jobs sooner by streamlining the regulatory approvals process for projects”. The report states that “Since 2009, it is estimated that the program has created almost 2,000 direct manufacturing jobs... Other jobs related to the FIT Program are construction-based... For every 10,000 construction jobs created by the clean energy sector, almost \$500 million in economic activity flows back into Ontario communities”. It also states that Ontario’s public colleges and universities have introduced new programs including training for wind turbine technicians; green business management; renewable energies technicians; sustainable energy and building technology; and clean and renewable energy engineering technology. In a statement entitled *Moving Clean Energy Forward*, the government outlines its future actions, including the development of a Clean Energy Economic Development Strategy by the Ministry of Energy and the Ministry of Economic Development and Innovation. No target date is provided.

## LINKS:

Ontario’s *Feed-in-Tariff Program: Two year Review Report* is at: <http://www.energy.gov.on.ca/docs/en/FIT-Review-Report.pdf>, and the Ontario government’s reaction is at *Moving Clean Energy Forward* at: <http://news.ontario.ca/mei/en/2012/03/moving-clean-energy-forward.html>

Response by Blue Green Canada to the FIT Review and the legislative debate concerning the Green Energy Act is at: <http://www.bluegreencanada.ca/node/127> .

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## Northern Gateway Pipeline Job Creation – Another Analysis

Posted on **April 12, 2012** by [elizabethperry493](#)

On March 21, the Canadian Centre for Policy Alternatives released an analysis which reviews the economic case for the Northern Gateway Pipeline, with a focus on the claimed and projected employment impacts. Enbridge claims that the pipelines will create 63,000 person-years of employment during its construction phase, and 1,146 full-time jobs once completed. Marc Lee, author of the CCPA report, argues that these projections are “grossly overstated, and based on modeling that makes many unjustified assumptions”. He also criticizes Enbridge for ignoring the economic costs and environmental risks of the pipeline, including disruption to existing employment, potential job losses due to oil spills, and the economic costs of carbon emissions. Lee concludes that “The only jobs we can bank on are approximately 1,850 construction jobs per year for three years, and a handful of permanent new jobs once completed”. Lee also discusses the additional job creation opportunities that even minimal processing of oil sands bitumen in Canada would bring, and the greater job creation that could result from redirecting the \$5 billion investment from oil sands to green jobs and industries.

#### **LINKS:**

*Enbridge Pipe Dreams and Nightmares: The Economic Costs and Benefits of the Proposed Northern Gateway Pipeline* at:

[http://www.policyalternatives.ca/sites/default/files/uploads/publications/BC%20Office/2012/03/CCPA-BC\\_Enbridge\\_Pipe\\_Dreams\\_2012.pdf](http://www.policyalternatives.ca/sites/default/files/uploads/publications/BC%20Office/2012/03/CCPA-BC_Enbridge_Pipe_Dreams_2012.pdf)

For links to earlier studies on the Northern Gateway pipeline, see the February 2012 issue of the Work and Climate Change Report at:

<http://archive.constantcontact.com/fs010/1104412491262/archive/1109241016356.html#article7>

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## **Job Creation from Energy Efficiency Improvements**

Posted on **April 12, 2012** by [elizabethperry493](#)

On March 1, Deutsche Bank Climate Change Advisors (DBCCA) and The Rockefeller Foundation in the U.S. released a report which estimates that a \$279 billion investment in retrofitting of

residential, commercial and institutional buildings in the U.S. could reduce that country's CO2 emissions by nearly 10% per year and produce more than a threefold return on investment by the end of the decade. It estimates that the retrofits, including upgrades to lighting, heating, and cooling, could create 3.3 million job years, equivalent to employing 330,000 full time workers for 10 years, mostly in the residential sector. The report concludes with a discussion of financing models for such investment.

#### LINKS:

*United States Building Energy Efficiency Retrofits: Market Sizing and Financing Models* is available at:

<http://www.rockefellerfoundation.org/uploads/files/791d15ac-90e1-4998-8932-5379bcd654c9-building.pdf>

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## 3.1 Million Jobs in Green Goods and Services in the U.S.

Posted on **April 12, 2012** by [elizabethperry493](#)

The inaugural issue of *Employment in Green Goods and Services* was released by the U.S. Bureau of Labor Statistics on March 22, revealing that in 2010, 3.1 million jobs, or 2.4% of total employment in the U.S., were associated with the production of green goods and services. Manufacturing had 461,800 GGS jobs, the most among any private sector industry. The BLS green jobs definition contains two components: an output-based definition which includes jobs found in businesses that produce goods and provide services that benefit the environment or conserve natural resources, and which is the subject of the March report. The second, process-based definition includes jobs where duties involve making production processes more environmentally friendly or use fewer natural resources. A report on process-based jobs is scheduled for Summer 2012.

#### LINKS:

*Employment in Green Goods and Services 2010* is available at:

<http://www.bls.gov/news.release/pdf/ggqcew.pdf>.

Two related websites with technical information about data and definitions: the GGS website at:

<http://www.bls.gov/ggs/>; the U.S. BLS Green Jobs website at: <http://www.bls.gov/green/> .

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## Business Attitudes and Actions Toward Adaptation

Posted on **April 12, 2012** by [elizabethperry493](#)

In a report released in March and directed to Canada's business community, the National Round Table on the Economy and the Environment presents case studies of the practical adaptation actions, experience and advice of what they call "climate pacesetters". The thirteen Canadian firms profiled are: B.C.Hydro, Cameco, Coca Cola Canada, EBA Engineering Consultants, Entenergy, Hydro Quebec, J.D. Irving, Munich RE, Rio Tinto Alcan, Royal Bank of Canada, Summerhill Pyramid Winery, Tolco Industries, and Whistler Blackcomb. Companion documents: A Business Primer and an Advisory Report to Government, with research and recommendations on how government can support greater business adaptation to climate change.

Another recent report by Siemens UK surveyed six hundred businesses concerning their attitudes toward energy management and conservation, as well as the position of the Energy Manager within the company. The goal of the brief report is to serve as a foundation for the construction of a "Green League" of companies. Some sobering findings: while 79% of respondents claimed to take energy management seriously within their companies, 46% admit that they don't know their current CO2 emission levels; 7% had investing nothing in the last 3 years on energy efficiency improvements, and 94% of energy managers have no formal qualifications relating to their role.

### LINKS:

*Facing the elements: building business resilience in a changing climate: case studies* Report #5 in the NRTEE Climate Prosperity series at:

<http://nrtee-trnee.ca/wp-content/uploads/2012/03/cp5-case-studies.pdf>



*The Green League: How businesses are reacting to the green agenda* is at:  
[http://www.siemens.co.uk/pool/news\\_press/news\\_archive/2012/greenleaguereport.pdf](http://www.siemens.co.uk/pool/news_press/news_archive/2012/greenleaguereport.pdf)

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## Environmental Cuts in the 2012 Canadian Budget

Posted on **April 12, 2012** by [elizabethperry493](#)

The budget of the federal government of Canada, released on March 29, 2012, includes changes to “streamline” environmental assessments, cut the budget of Environment Canada, and eliminate the National Roundtable on the Economy and the Environment (NRTEE).

### LINKS:

See the budget documents at the government’s website at: <http://www.budget.gc.ca/2012/home-accueil-eng.html>;

read a summary in the Toronto Globe and Mail at: <http://www.theglobeandmail.com/report-on-business/industry-news/energy-and-resources/ottawa-clears-hurdles-to-resource-development/article2386106/>.

For reactions, see Marc Lee at the Canadian Centre for Policy Analysis website at: <http://www.behindthenumbers.ca/2012/03/29/a-budget-that-screws-the-planet-for-short-term-profits/>

or Andrea Harden-Donahue at Rabble.ca at:

<http://rabble.ca/blogs/bloggers/council-canadians/2012/03/budget-2012-good-big-oil-bad-people-and-environment>.

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# Ontario's Climate Adaptation Strategy Assessed

Posted on **April 12, 2012** by **elizabethperry493**

On March 7, 2012 the Environmental Commissioner of Ontario released a review of the 2011 Climate Ready adaptation strategy and planning document. The Commissioner states that the plan "represents a significant contribution towards a growing national and international policy movement". However, he calls for improvements such as prioritizing the actions that are needed, setting specific targets and timelines, identifying dedicated funding, and outlining the responsibilities of key government ministries. He calls on the province to support local and municipal initiatives such as the Community Adaptation Initiative, whose funding ends in March 2012.

## LINKS:

*Ready for Change? An assessment of Ontario's climate change adaptation strategy at:*

<http://www.eco.on.ca/uploads/Reports-special/2012-Adaptation/Ready-for-Change-bookmarked.pdf>

*Climate Ready: Ontario's Adaptation Strategy and Action Plan, 2011-2014 at:*

[http://www.ene.gov.on.ca/stdprodconsume/groups/lr/@ene/@resources/documents/resource/stdprod\\_085423.pdf](http://www.ene.gov.on.ca/stdprodconsume/groups/lr/@ene/@resources/documents/resource/stdprod_085423.pdf)

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# Update on British Columbia: Carbon Tax Under Review; Natural Gas Strategy Projects Job Growth

Posted on **April 12, 2012** by **elizabethperry493**

In February, British Columbia released two strategy documents, fleshing out plans for the natural gas industry which had been previously mentioned in the B.C. Jobs Plan. The government press release claims that development of LNG will produce approximately \$20 billion in new private

sector investment, create 800 new long-term jobs in LNG facilities, up to 9,000 more jobs during construction, and thousands of spin-off jobs in transportation, engineering, construction and environmental management.

The B.C. government's budget speech in late February confirmed that the government will increase the carbon tax as scheduled in 2012, but the tax will be frozen after that while the government conducts a one-year review of the impact on B.C.'s economy, especially on the agricultural sector. The budget press release is at:

<http://www.newsroom.gov.bc.ca/2012/02/budget-2012-focuses-on-a-stable-economy.html>.

#### LINKS:

*British Columbia's Natural Gas Strategy: Fuelling BC's economy for the next decade and beyond* at: [http://www.gov.bc.ca/ener/popt/down/natural\\_gas\\_strategy.pdf](http://www.gov.bc.ca/ener/popt/down/natural_gas_strategy.pdf)

*Liquefied Natural Gas: A Strategy for B.C.'s Newest Industry* at:

[http://www.gov.bc.ca/ener/popt/down/liquefied\\_natural\\_gas\\_strategy.pdf](http://www.gov.bc.ca/ener/popt/down/liquefied_natural_gas_strategy.pdf)

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## Impact of a Spill on the Keystone XL Pipeline

Posted on **April 12, 2012** by **elizabethperry493**

Cornell's Global Labor Institute has released a second report about the proposed Keystone XL pipeline. Although a comprehensive spills risk assessment for the pipeline hasn't been conducted, authors Lara Skinner and Sean Sweeney used economic data and interviews to estimate the potential impacts in the six states along the proposed route, and describe how the Kalamazoo River spill in 2010-to date the largest tar sands oil spill in the U.S.-caused significant economic damage.

#### LINKS:

*The Impact of Tar Sands Pipeline Spills on Employment and the Economy* is at:

[http://www.ilr.cornell.edu/globallaborinstitute/research/upload/GLI\\_Impact-of-Tar-Sands-Pipeline-Spills.pdf](http://www.ilr.cornell.edu/globallaborinstitute/research/upload/GLI_Impact-of-Tar-Sands-Pipeline-Spills.pdf)

## Call for Just Transition in U.K. Green Jobs

Posted on **April 12, 2012** by [elizabethperry493](#)

The Greener Jobs Alliance is a U.K. advocacy group founded by the Trades Union Congress, University and College Union, Greenpeace, and others. It released a 4-page *Green Skills Manifesto* in January 2012, which criticizes the 2011 government green skills policy and calls for policies based on equality, just transition, fair and decent jobs. The *Green Skills Manifesto* is available at: [http://www.ucu.org.uk/media/pdf/p/i/Green\\_skills\\_manifesto.pdf](http://www.ucu.org.uk/media/pdf/p/i/Green_skills_manifesto.pdf)

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## OECD Environmental Outlook to 2050

Posted on **April 12, 2012** by [elizabethperry493](#)

A new document released by the OECD on March 15 updates and projects what the environment will be like in 2050. Based on model projections done jointly by OECD and the Netherlands Environmental Assessment Agency, it focuses on four areas which were identified as needing urgent attention by an earlier OECD Outlook published in 2008. Chapter 2 discusses socio economic developments, for example highlighting that nearly 70% of the world population will be urban by 2050, magnifying challenges such as air pollution, transport congestion, and waste management. *OECD Environmental Outlook to 2050: The Consequences of Inaction* is available in various formats and languages from links at:

[http://www.oecd.org/document/11/0,3746,en\\_2649\\_37465\\_49036555\\_1\\_1\\_1\\_37465,00.html](http://www.oecd.org/document/11/0,3746,en_2649_37465_49036555_1_1_1_37465,00.html)

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## Global Guidelines for Forests

Posted on **April 12, 2012** by [elizabethperry493](#)

The United Nations Food and Agricultural Organization (FAO) released a working paper in March 2012, intended as a foundation for the global guidelines it is developing for forest managers to understand, assess and implement climate change mitigation and adaptation measures. It

examines all types of forests (boreal, temperate, and tropical), and includes all management objectives (production, conservation, protection and multipurpose). It includes a section on Socio-economic impacts, as well as a discussion of policy instruments such as the REDD+ and Clean Development Mechanism (CDM).

**LINK:**

*Forest Management and Climate Change: a literature review.* (Forests and Climate Change Working Paper #10) at: <http://www.fao.org/docrep/015/md012e/md012e00.pdf>

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## Blue Green Canada Expands Membership

Posted on **April 12, 2012** by [elizabethperry493](#)

Blue Green Canada recently reported that the Communications, Energy and Paperworkers Union of Canada (CEP), the Columbia Institute and the Pembina Institute have joined the organization. See the press release at: <http://www.bluegreencanada.ca/node/123>.

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## A Greener European Economy can Bring a Double Dividend

Posted on **March 12, 2012** by [elizabethperry493](#)

*Towards a Greener Economy: The Social Dimension* examines the green economy in the European Union, especially the labour market and employment aspects. It focuses on the 15 high carbon industries which produce approximately 85 per cent of production emissions, and which represent approximately 12% of employment. The core of the report is its discussion of the green policy measures currently in use in the EU, and the conclusion that a “double dividend” – greater decent work opportunities and a greener economy – is possible if environmental, economic and social policies are integrated in the right policy mix. The report concludes by identifying topics requiring further research. *Towards a Greener Economy* was released in November 2011, and is the result from the cooperation between the European Commission’s Directorate-General for

Employment, Social Affairs, and Inclusion and the International Institute for Labour Studies of the ILO.

#### LINKS:

*Towards a Greener Economy: The Social Dimension* is available at:

<http://www.ilo.org/public/english/bureau/inst/research/ecinst/greensyn.pdf>

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## Canadian Municipalities Invest in Infrastructure Projects to Boost Green Economy

Posted on **March 12, 2012** by [elizabethperry493](#)

At its Sustainable Communities Conference, February 8-10, 2012, the Federation of Canadian Municipalities released a new policy document, *Building Canada's Green Economy: The Municipal Role*. The FCM states that municipalities build and operate most of Canada's environmental infrastructure, from water treatment plants to public transit to recycling and waste disposal services. In areas such as land-use planning, transportation, and building standards, municipalities have direct or indirect influence over 44% of Canada's GHG emissions.

*Building Canada's Green Economy* describes existing programs such as Partners for Climate Protection (PCP) and the Green Municipal Fund (GMF), which together have invested over \$145 million in projects that have reduced greenhouse gas emissions by an estimated 350,000 tonnes. In addition, a \$550 million federal endowment to the FCM is reported to have been invested in capital projects which have yielded 32,650 jobs. The report also compares the potential job multiplier effect of municipal jobs vs. the oil and gas extraction industry: it estimates transit and passenger transportation operations would create over 20 jobs per million dollars invested. Extraction activities, the report states, generate roughly 3 jobs per million dollars invested, while support activities for mining, oil and gas extraction generate about 8 jobs per million.

#### LINKS

*Building Canada's Green Economy: The Municipal Role* is available at:

[http://www.fcm.ca/Documents/reports/Building\\_Canadas\\_green\\_economy\\_the\\_municipal\\_role\\_EN.pdf](http://www.fcm.ca/Documents/reports/Building_Canadas_green_economy_the_municipal_role_EN.pdf)

Federation of Canadian Municipalities Green Economy website is at:

<http://www.fcm.ca/home/issues/environment/the-green-economy.htm>

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## Co-operatives as a Green Agent

Posted on **March 12, 2012** by [elizabethperry493](#)

A study by the Canadian Co-operative Association examines co-operatives that are creating and facilitating renewable energy development in Canada. Of the 71 such co-ops in Canada in 2010, 26% are in the biofuel sector, 22% in the wind sector, 3% in solar, 8% in biomass, 3% in hydro, and 28% in "varied". The report describes the organizational structure, stage of development, and geographical distribution, and lists each co-operative by name, address, and web address.

### LINKS:

*Co-operatives helping fuel a green economy* is at:

[http://www.coopscanada.coop/public\\_html/assets/firefly/files/files/Rpt\\_on\\_Renewable\\_Energy\\_Co\\_ops\\_FINAL\\_final\\_2.pdf](http://www.coopscanada.coop/public_html/assets/firefly/files/files/Rpt_on_Renewable_Energy_Co_ops_FINAL_final_2.pdf)

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## Employment in Renewable Energy

Posted on **March 12, 2012** by [elizabethperry493](#)

*State of Renewable Energies in Europe*, a bilingual document in French and English, was released in February and compares the main statistics on the renewable energy market in the 27 European Union countries for the years 2009 and 2010. Official 2010 data will only be available by 2013, but the group responsible, EurObserv'ER, has proven to be remarkably accurate in its past estimates. It describes and quantifies 9 renewable sectors including wind, solar, biomass, geothermal. For each type of energy, and for each country, it provides estimates of direct and indirect job creation: it estimates total renewable energy based employment at 1.11 million people in 2010 – a 25% increase from 2009. The top employer is solid biomass, followed by photovoltaic and wind power.

The final chapter focuses on seven EU regions which have particularly high amounts of RES investments in 2010.

#### LINKS:

*State of Renewable Energies in Europe* is available at:

<http://www.eurobserv-er.org/pdf/barobilan11.pdf>, with more detailed data provided and searchable at the EurObserv'ER website at: <http://www.eurobserv-er.org/>

Related reports which discuss the market (but not employment) for renewables:

*Wind in power: 2011 European statistics* (February 2012) from the European Wind Energy Association at:

[http://www.ewea.org/fileadmin/ewea\\_documents/documents/publications/statistics/Stats\\_2011.pdf](http://www.ewea.org/fileadmin/ewea_documents/documents/publications/statistics/Stats_2011.pdf)

*Global wind statistics 2011* (4 pages) is available from the Global Wind Energy Council at: [http://www.gwec.net/fileadmin/images/News/Press/GWEC\\_-\\_Global\\_Wind\\_Statistics\\_2011.pdf](http://www.gwec.net/fileadmin/images/News/Press/GWEC_-_Global_Wind_Statistics_2011.pdf)

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## Climate Change, Oceans and Fisheries

Posted on **March 12, 2012** by [elizabethperry493](#)

In late February, the Global Partnership for Oceans was launched – a coalition of international organizations such as the UNEP, UNESCO, FAO, and non-governmental organizations such as WWF and Nature Conservancy, to address the challenges to oceans management and governance, including over-fishing, marine degradation and habitat loss. These are the same issues that were raised by the Royal Society of Canada in February in its comprehensive 300-page report, *Sustaining Canada's Marine Biodiversity*. Ten Canadian marine research scientists examined the state of the Atlantic, Pacific and Arctic Oceans as a result of overfishing, aquaculture “and all the things we do that drive climate change”. The report explains the real and future threats to biodiversity, discusses Canada's international and national legal obligations and policies, and



offers “seven recommendations for action that will take Canada from negligence to effectiveness in managing its fisheries and preserving marine biodiversity, for the benefit of Canadians and all the world’s people”.

#### LINKS:

Global Partnership for Oceans website is at: <http://www.globalpartnershipforoceans.org/>

The full report, *Sustaining Canada’s Marine Biodiversity: Responding to the Challenges Posed by Climate Change, Fisheries, and Aquaculture* is available at:  
[http://www.rsc.ca/documents/RSCMarineBiodiversity2012\\_ENFINAL.pdf](http://www.rsc.ca/documents/RSCMarineBiodiversity2012_ENFINAL.pdf).

The 20 page summary document, which focuses on policy, is in English at:  
[http://www.rsc.ca/documents/RSC\\_MBD\\_1\\_3\\_25\\_Twenty-Five\\_EN\\_FORMAT.pdf](http://www.rsc.ca/documents/RSC_MBD_1_3_25_Twenty-Five_EN_FORMAT.pdf)  
and in French at:  
[http://www.rsc.ca/documents/RSC\\_MBD\\_1\\_3\\_25\\_Twenty-Five\\_FR\\_FORMAT.pdf](http://www.rsc.ca/documents/RSC_MBD_1_3_25_Twenty-Five_FR_FORMAT.pdf)

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## California Green Economy Grew Despite the Recession

Posted on **March 12, 2012** by [elizabethperry493](#)

Next 10 of San Francisco has published an analysis of California’s “core green economy”. While employment and business growth varies across the 15 green industry segments measured, there was overall employment growth of 1% in green manufacturing in 2009-2010, despite the recession. For the period 1995 to 2010, job creation in the clean energy/materials manufacturing sector increased by 53% while jobs in the rest of the manufacturing sector decreased by 18%.

#### LINKS:

*Many shades of green* at:

[http://next10.org/sites/next10.huang.radicaldesigns.org/files/MSOG\\_2012\\_M2.pdf](http://next10.org/sites/next10.huang.radicaldesigns.org/files/MSOG_2012_M2.pdf)  
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# Green Career Guide Aimed at Women

Posted on **March 12, 2012** by **elizabethperry493**

The U.S. Department of Labor Women's Bureau, in early February 2012, released *Why Green is Your Color: A Woman's Guide to a Sustainable Career*. The career guide was written under contract to the Women's Bureau by Public Policy Associates, Inc. and Wider Opportunities for Women. It is designed for workers and educators, career counselors and training providers, and discusses a range of in-demand and emerging jobs, as well as job training opportunities and career development tools.

## LINKS:

Green Jobs for Women website at:<http://www.dol.gov/wb/media/green.htm> includes links to the career guide, transcripts from teleconferences in 2010, and details of regional training pilot projects.

*Why green is your color* is available at:

[http://www.dol.gov/wb/Green\\_Jobs\\_Guide/](http://www.dol.gov/wb/Green_Jobs_Guide/)

Green Jobs teleconferences, including PowerPoint presentations, fact sheets and transcripts of teleconferences are at:

<http://www.dol.gov/wb/media/Greenteleconferneces.htm#Industries>

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## Northern Gateway Pipeline Developments

Posted on **March 12, 2012** by **elizabethperry493**

The Canadian Energy Research Institute has released *Oil Spills and First Nations: Exploring Environmental and Land Issues Surrounding the Northern Gateway Pipeline*. It provides a good explanation of the issues and the process underway with the Northern Gateway pipeline review. According to this document, environmental issues are paramount and job creation is a very minor concern among the First Nations. The report is available at:

[http://www.ceri.ca/images/stories/2012-02-15\\_Oil\\_Spills\\_and\\_First\\_Nations.pdf](http://www.ceri.ca/images/stories/2012-02-15_Oil_Spills_and_First_Nations.pdf).

The Communications, Energy and Paperworkers union (CEP) presented evidence to the National Energy Board on January 31, calling for a delay in the decision on the Northern Gateway pipeline until a national energy policy is in place. The union includes a memo by Michael McCracken, principal of Informetrica Inc., who was retained by CEP to assess the potential impact of the Northern Gateway project. His report estimates 26,000 jobs would be lost if bitumen extracted in Alberta was exported rather than being upgraded in Canada. See the CEP Evidence at:

[http://www.cep.ca/sites/cep.ca/files/docs/en/120201\\_Northern\\_Gateway\\_Project\\_CEP\\_Evidence\\_00389312.pdf](http://www.cep.ca/sites/cep.ca/files/docs/en/120201_Northern_Gateway_Project_CEP_Evidence_00389312.pdf), and the Memorandum from Informetrica, titled *Employment Consequences of Exporting Bitumen*,

at: [http://www.cep.ca/sites/cep.ca/files/docs/en/120201\\_Northern\\_Gateway\\_Project\\_Attachment\\_A\\_00389307.pdf](http://www.cep.ca/sites/cep.ca/files/docs/en/120201_Northern_Gateway_Project_Attachment_A_00389307.pdf)

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## Oil Sands Pollution

Posted on **March 12, 2012** by **elizabethperry493**

A February 23 vote by the European Union has ended in a stalemate, so that the issue of whether crude from Canada's oil sands should be classed as dirtier than other fuels will be debated by the full European Council in Spring or early Summer. Read a CBC summary at:

<http://www.cbc.ca/news/world/story/2012/02/22/oilsands-european-union-vote.html>.

A paper by University of Victoria scientists Andrew Weaver and Neil Swart calculates the climate impact of producing the oil sands. "The Alberta Oil Sands and climate", in *Nature Climate Change* was published online February 19, 2012 and is available (for a fee)

at: <http://www.nature.com/nclimate/journal/vaop/ncurrent/full/nclimate1421.html>. Neil Swart's website provides a summary of the paper and selected data at:

[http://climate.uvic.ca/people/nswart/Alberta\\_Oil\\_Sands\\_climate.html](http://climate.uvic.ca/people/nswart/Alberta_Oil_Sands_climate.html). For a discussion of the Weaver Swart paper, go to the Pembina Institute blog by P.J. Partington on February 27, at:

<http://www.pembina.org/blog/612>. Another study, released by the American Geophysical Union in its *Geophysical Research Letters* on February 22, is unique in using satellite data to calculate the overall extent of the oil sands' air quality impacts including the giant dump trucks, huge refining facilities where the bitumen is processed, and more. Read a summary at:

[http://www.agu.org/news/press/pr\\_archives/2012/2012-12.shtml](http://www.agu.org/news/press/pr_archives/2012/2012-12.shtml).

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## Youth Interested in Green Careers

Posted on **March 12, 2012** by [elizabethperry493](#)

The latest *World Youth Report* released by the UN Department of Economic and Social Affairs on February 6, 2012 was based on a four-week consultation period, where youth around the world were invited to submit their opinions and comments. There was great concern that educational systems are not adequate and that the skills taught are not relevant. Many identified entrepreneurship as a preferred career path, and many were interested in innovation in green technologies and communications. Read the press release and summary at:  
<http://www.un.org/apps/news/story.asp?NewsID=41150&Cr=unemployment&Cr1=>

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## Pipelines and Jobs in the News

Posted on **February 12, 2012** by [elizabethperry493](#)

With the January 18, 2012 decision by U.S. President Obama to deny its presidential permit, the proposed Keystone XL Pipeline has been back in the news. And in Canada, the Joint Review Panel for the proposed Enbridge Northern Gateway Project began conducting community hearings on January 10th. Although most opposition to both pipelines focuses on environmental damage, the promise of job creation is a powerful factor behind the debate. With the release on January 26th of a confidential policy document of the federal government, Greenpeace Canada has called into question the neutrality of the Canadian government and the National Energy Board in this environment/jobs debate.

### LINKS:

"Federal documents spark outcry by oil sands critics" (Jan 26, 2012) in the *Toronto Globe and Mail* at:

<http://www.theglobeandmail.com/globe-investor/federal-documents-spark-outcry-by-oil-sands-critics/article2316087/>

*Confidential federal tar sands strategy targets Aboriginal and green groups* at:  
<http://www.greenpeace.org/canada/en/recent/Confidential-federal-tar-sands-strategy-targets-Aboriginal-and-green-groups/>

Greenpeace cites *Pan-European Oil Sands Advocacy Strategy*, obtained by Freedom of Information legislation, and available at:  
[https://docs.google.com/viewer?  
a=v&pid=explorer&chrome=true&srcid=0B\\_0MqnZ4wmcMYjY0NjY4Y2MtOWQzMj00NmU0LTlhNWmtNzExN2EwYWI5N2Ex&hl=en\\_US&pli=1](https://docs.google.com/viewer?a=v&pid=explorer&chrome=true&srcid=0B_0MqnZ4wmcMYjY0NjY4Y2MtOWQzMj00NmU0LTlhNWmtNzExN2EwYWI5N2Ex&hl=en_US&pli=1)

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## Re Job Creation of the Keystone XL Pipeline

Posted on **February 12, 2012** by [elizabethperry493](#)

The Cornell Global Labor Institute has updated and re-released *Pipedreams? Jobs gained, jobs lost by the construction of Keystone XL*, which concludes that the oil industry claims of job creation in the U.S. are unsubstantiated and exaggerated. *Pipedreams?* states that 50% or more of the steel pipe to be used in the pipeline will be manufactured outside of the U.S.; jobs will be temporary; between 85-90% of workers be non-local or from out of state; and that in the long-term, jobs would be lost due to higher fuel costs in the Midwest, pipeline spills, pollution, and climate change impacts. The Cornell report specifically disputes The Perryman Report, commissioned by Transcanada Corporation, which estimates that “the \$7 billion pipeline project is expected to directly create more than 20,000 high-wage manufacturing jobs and construction jobs in 2011-2012 across the U.S., stimulating significant additional economic activity”.

### LINKS:

Cornell University Global Labour Institute website, with links to other Keystone Pipeline documents, at:

<http://www.ilr.cornell.edu/globallaborinstitute/research/Keystonexl.html>

*Pipedreams? Jobs gained, jobs lost by the construction of Keystone XL* at:

[http://www.ilr.cornell.edu/globallaborinstitute/research/upload/GLI\\_KeystoneXL\\_011912\\_FIN.pdf](http://www.ilr.cornell.edu/globallaborinstitute/research/upload/GLI_KeystoneXL_011912_FIN.pdf)

Transcanada Inc. website is at:

[http://www.transcanada.com/economic\\_benefits.html](http://www.transcanada.com/economic_benefits.html)

The Perryman Report, formally *The Impact of Developing the Keystone XL Pipeline Project on Business Activity in the US: An Analysis Including State-by-State Construction Effects and an Assessment of the Potential Benefits of a More Stable Source of Domestic Supply* is available at: [http://www.transcanada.com/docs/Key\\_Projects/TransCanada\\_US\\_Report\\_06-10-10.pdf](http://www.transcanada.com/docs/Key_Projects/TransCanada_US_Report_06-10-10.pdf)

Keystone XL Pipeline archive of stories and related documents at the New York Times website at: [http://topics.nytimes.com/top/reference/timestopics/subjects/k/keystone\\_pipeline/index.html](http://topics.nytimes.com/top/reference/timestopics/subjects/k/keystone_pipeline/index.html)

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## Re Northern Gateway Job Creation

Posted on **February 12, 2012** by **elizabethperry493**

Fact sheets at the Enbridge website claim that, with an estimated capital cost of \$5.5 billion, construction of the proposed Northern Gateway pipeline will create about 62,700 person-years of employment across Canada over 3 years (5,537 person-years of employment on actual on-site construction; 17,227 person-years in companies that directly supply goods and services, and 39,930 person-years of spin-off employment).: Enbridge has an educational and training strategy to utilize local workers, and in November 2011, the company announced a commitment of \$1.5 million in core funding for a Gateway Education and Training Fund to train Aboriginal people in pipeline construction skills.

### LINKS:

Enbridge's Northern Gateway website at: <http://www.northerngateway.ca/economic-opportunity/benefits-for-british-columbians/> provides an overview of the company's estimates for job creation, or

See Socio-economic Fact Sheet at:

[http://www.northerngateway.ca/assets/pdf/Environment%20Protection%20and%20Socio-Economic%20Assessment/NGP-FS-06-004\\_Socio-Economic%20Benefits.pdf](http://www.northerngateway.ca/assets/pdf/Environment%20Protection%20and%20Socio-Economic%20Assessment/NGP-FS-06-004_Socio-Economic%20Benefits.pdf)

National Energy Board website for the Enbridge Northern Gateway Review Panel at:  
<http://gatewaypanel.review-examen.gc.ca/clf-nsi/hm-eng.html>.

(See the Public Registry for all official documents and submissions at:

<https://www.neb-one.gc.ca/ll-eng/livelink.exe/fetch/2000/90464/90552/384192/620327/customview.html?func=ll&objId=620327&objAction=browse&sort=-name&redirect=3>).

CBC Northern Gateway Pipeline: benefits vs. concerns January 10, 2012, with links to related documents at:

<http://www.cbc.ca/news/canada/story/2012/01/10/f-northern-gateway-pipeline.html>

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## Improving Energy Efficiency through Workplace Behaviour

Posted on **February 12, 2012** by **elizabethperry493**

A new report from the American Council for an Energy-Efficient Economy provides case studies of workplace programs to reduce energy use, by changing employees' attitudes and behaviours. Of the five case studies, three are Canadian: B.C Hydro, University Health Network (Toronto) and the British Columbia Ministry of Energy, Mines and Petroleum Resource. The other two case studies are of the Empire State Building in New York and the U.S. House of Representatives.

### LINKS:

*Greening Work Styles: An Analysis of Energy Behavior Programs in the Workplace* (January 2012) is available at:

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## Job Projections for Canadian Hydropower

Posted on **February 12, 2012** by [elizabethperry493](#)

A study released by HEC Montréal at the end of 2011 has projected that electricity generation projects already under consideration across Canada until 2030 would create 776,000 FTEs for construction firms and their suppliers, with a further 224,000 FTEs forecast to be created by increased spending by those directly or indirectly employed by the projects. The report was conducted at the request of the Canadian Hydropower Association (CHA) and conducted by a team of MBA students at the HEC Montréal. A total of 158 hydropower projects were identified across Canada, with 3 scenarios developed using Statistics Canada's Input-Output modeling.

### LINKS:

*Job Creation and Economic Development Opportunities in the Canadian Hydropower Market* is available at:

<http://www.globe-net.com/articles/2011/december/27/hydropower-investment-could-create-a-million-canadian-jobs/>

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## Encouraging Clean Energy at State and Municipal Levels

Posted on **February 12, 2012** by [elizabethperry493](#)

The Pembina Institute has released a fact sheet and a backgrounder which describe and advocate the potential of municipalities to encourage renewable energy and reduce energy consumption. Clean Local Energy Available Now (CLEAN) contracts, known as feed-in-tariffs in Europe, have



not been implemented in any Canadian cities yet, although a Renewable Energy Task Force in Edmonton, Alberta has examined the idea, and U.S. and German examples are named. Regarding jobs, the Fact Sheet states: “A FIT provides durable and predictable market conditions, essential to attracting infrastructure investment and developing local manufacturing capacity. The economic benefit of any clean energy project is directly related to the degree to which materials, components and labour can be locally sourced”.

A study of clean energy funds (CEFs) operated in 20 states in the U.S describes various models used by the funds to encourage the development of energy efficiency and renewable energy projects, with short case studies of Massachusetts, California, and New York. Researchers conclude that, especially in the absence of coordinated federal policies, state-level clean energy funds can collectively become an important driver of national economic growth, if the CEF’s re-orient themselves from a project focus to broader economic development objectives, linked and coordinated with other agencies and stakeholders in the clean energy industry.

#### LINKS:

*Renewable Energy: FIT for Cities Fact Sheet* is at the Pembina Institute website at: <http://www.pembina.org/pub/2133>; *CLEAN Cities: A municipal financing option for supporting local renewable energy* is at: <http://www.pembina.org/pub/2306>

*Leveraging State Clean Energy Funds for Economic Development* was released by the Brookings Institute at:

[http://www.brookings.edu/~media/Files/rc/papers/2012/0111\\_states\\_energy\\_funds/0111\\_states\\_energy\\_funds.pdf](http://www.brookings.edu/~media/Files/rc/papers/2012/0111_states_energy_funds/0111_states_energy_funds.pdf)

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## Clean Energy Jobs in Obama’s “Built to Last” Economic Policy

Posted on **February 12, 2012** by **elizabethperry493**

In a follow-up to U.S. President Obama’s 2012 State of the Union address on January 24th, the White House released an economic statement which includes a section on creating clean energy

jobs. “The President called on Congress to build on our success in positioning America to be the world’s leading manufacturer in high-tech batteries and reiterated his call for action on clean energy tax credits and a national goal of moving toward clean sources of electricity by setting a standard for utility companies, so that by 2035, 80% of the nation’s electricity will come from clean sources, including renewable energy sources like wind, solar, biomass, hydropower, nuclear power, efficient natural gas, and clean coal. Because Congress has not yet acted on this and other key steps to achieve a clean energy economy, the President announced that the Department of the Navy will make the largest renewable energy purchase in history – one gigawatt. In addition, the President is directing the Department of Interior to permit 10 gigawatts of renewables projects by the end of the year, enough to power three million homes.”

#### **LINKS:**

*Blueprint for an America Built to Last* economic statement at:

[http://www.whitehouse.gov/sites/default/files/blueprint\\_for\\_an\\_america\\_built\\_to\\_last.pdf](http://www.whitehouse.gov/sites/default/files/blueprint_for_an_america_built_to_last.pdf)

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## **Sustainable Corporations Ranking Released to Coincide with the World Economic Forum**

Posted on **February 12, 2012** by **elizabethperry493**

The Global 100 claims to be “the most extensive data-driven corporate sustainability assessment in existence”. Launched in 2005 by Toronto-based media company Corporate Knights, this annual clean capitalism ranking is announced each year during the World Economic Forum in Davos. Companies from around the world are ranked according to energy productivity, waste management, water use, CO2 emissions, and a “Clean Capitalism Paylink”, which recognizes companies that link the remuneration of senior executives with the achievement of clean capitalism goals or targets. Six Canadian companies were listed in the world’s top 100 sustainable companies for 2012: Suncor Energy (ranked 48th); Enbridge (71st); Encana (76th); Nexen (89th); Sun Life Financial (91); and Royal Bank of Canada (95th).

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## **Also at the Davos World Economic Forum: Labour’s Demands**

Posted on **February 12, 2012** by **elizabethperry493**

The International Trade Union Confederation (ITUC) put forward its 5 principles for world economic recovery: Job creation, Social protection, sustainable demand and decent work, Financial regulation, Fair and progressive taxation, and Climate action. Its climate change goals include reducing emissions of industrialised countries by 25-40% by 2020, implementing a green climate fund, and ensuring a just transition for workers and communities.

#### **LINKS:**

Global 100 press release, January 25, 2012 is at the Corporate Knights website at:

[http://www.corporateknights.ca/sites/default/files/Global100Release\\_Final\\_Jan25%281%29.pdf](http://www.corporateknights.ca/sites/default/files/Global100Release_Final_Jan25%281%29.pdf)

For details on the research and methodology of the rankings, as well as current and past lists of companies, go to: <http://global100.org/index.php>

*Labour's five demands for jobs, growth and equity* is at:

<http://www.ituc-csi.org/IMG/pdf/I20.pdf>

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## **Wind Turbines and Rural Ontario**

Posted on **February 12, 2012** by **elizabethperry493**

While reaffirming its support of Ontario's Green Energy Act, the Ontario Federation of Agriculture on January 20 released a new position statement, calling on the Ontario government to suspend industrial wind turbine development. The OFA states that the issue is seriously polarizing rural communities and preoccupying the rural agenda. This controversy comes as a new wind energy installation built by the CAW at its Family Education facility at Port Elgin, Ontario is about to become fully operational. A letter from CAW President Ken Lewenza to the local Member of Parliament makes clear that the union has encountered local opposition to its clean energy initiative. Read the OFA Position statement on Industrial Wind Turbines at:

<http://www.ofa.on.ca/uploads/userfiles/files/ofa%20position%20statement%20on%20industrial%20wind%20turbines.pdf>

CAW Clean Wind Energy website at: <http://www.caw.ca/en/10744.htm> and the letter from President Ken Lewenza to MP Ben Lobb at: [http://www.caw.ca/assets/pdf/lobb-wind\\_turbine.pdf](http://www.caw.ca/assets/pdf/lobb-wind_turbine.pdf)

## Four Scenarios for the Canadian Economy, Environment, and Competitiveness in 2025

Posted on **February 12, 2012** by [elizabethperry493](#)

Policy Horizons Canada has published a thought piece based on the key question: “What are the federal policy implications of increasing interest in reconciling economic growth, environmental sustainability and prosperity?”. Factors considered were environmental pressures, consumer values, population growth, technological change, and supply and demand of natural resources. The four scenarios developed and explained in an appendix are: 1) Muddling through 2) Gradual progress 3) Slow decline, and 4) Transformation. *Leading the Pack or Lagging Behind: A Foresight Study on Environmental Sustainability and Competitiveness* is available at: [http://www.horizons.gc.ca/doclib/2011-0092\\_eng.pdf](http://www.horizons.gc.ca/doclib/2011-0092_eng.pdf).

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## U.K. Unions and Local Governments can Contribute to Job Growth

Posted on **February 12, 2012** by [elizabethperry493](#)

At a Trades Union Congress conference in the U.K. in January, *The New Green Team* was released. Researched and written by the Association for Public Services Excellence (APSE) for UNISON, the report was based on extensive interviews with local authorities. The research found “there is potential for huge expansion in new jobs and skills include Green Finance, Green Law, Architecture, Research and Development, Engineering, Assembly Technicians, Installation Technicians, Carpentry, Plumbing and Repair and Maintenance jobs”. The document is available at: <http://www.apse.org.uk/page-flips/2011/the-new-green-team/index.html>.

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# UK Publishes Landmark Climate Change Risk Assessment

Posted on **February 12, 2012** by **elizabethperry493**

The Climate Change Risk Assessment (CCRA), released on January 25, 2012, is a 1,000 page document examining over 700 potential impacts of climate change in a UK context. Detailed analysis was undertaken for over 100 of these impacts across 11 key sectors. The report identifies the huge economic risks that will result from climate impacts, including spiraling insurance costs and increasing difficulty in obtaining mortgages as flood risk increases. The report cites tourism as one of the UK sectors likely to benefit, but warns that “the threats outweigh the opportunities”. The Climate Change Risk Assessment (CCRA) and supporting documents are available at the website of the U.K. Department of Environment, Food and Rural Affairs at:

<http://www.defra.gov.uk/environment/climate/government/risk-assessment/>

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## Job Forecasts for Renewable Energy in Ontario

Posted on **January 12, 2012** by **elizabethperry493**

The Review of Ontario’s Feed-in-Tariff program concluded its feedback phase on December 14, 2011. A joint submission to the Review by the Green Energy Act Alliance and Shine Ontario argues that the existing target of 13% of energy consumption from new renewables is too low to sustain job creation, and therefore proposes a target of 26% by 2018. This, it is claimed, would create over 300,000 full-time person-years of employment in manufacturing, development and construction and operational jobs. The report provides details about its job creation modeling for three renewable categories: 1) solar PV, 2) wind, and 3) biomass, biogas and hydro. The forecasts rely on the Jobs and Economic Development Impact (JEDI) tools developed by the National Renewable Energy Laboratory in Berkeley, California, as well as 2011 analysis by ClearSky Advisors and a 2010 report by Navigant Consulting for SkyPower.

Shine Ontario is a new Ontario provincial solar industry and professional association composed of independent professionals, leading utility-scale solar and commercial rooftop solar project developers, photovoltaic module manufacturers, engineering construction firms and leading environmental organizations throughout Ontario.

## LINKS:

Ontario Government FIT Energy Review website at:

<http://www.energy.gov.on.ca/en/fit-and-microfit-program/2-year-fit-review/>

*Green Energy Act Alliance* and *SHINE Ontario Submission* is at:

[http://environmentaldefence.ca/sites/default/files/report\\_files/FIT.Review\\_Updated.pdf](http://environmentaldefence.ca/sites/default/files/report_files/FIT.Review_Updated.pdf)

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# Professional Associations have a Role to Play in Climate Change

Posted on **January 12, 2012** by [elizabethperry493](#)

A report published by West Coast Environmental Law starts from the position that climate change is a cross-cutting issue that affects advice and decision-making in many different professions, including architects and engineers, professional foresters, biologists, insurance professionals, accountants, and city planners. The report calls for an enhanced role for professional associations using the existing tools, such as codes of conduct and ethics, standards of practice, requirements for continuing professional development, and policy statements. In one example, the author suggests a statement of ethical responsibility to “act in the public interest (including promoting sustainability); not speak beyond one’s expertise or competence; not make misleading statements or falsify data; and act with due diligence”. The report describes exemplary climate change initiatives underway by such groups as the Canadian Institute of Planners, Professional Engineers and Geoscientists of BC (APEG BC), and Greenhouse Gas Management Institute (GHGMI).

## LINKS:

*Professionals and Climate Change: How professional associations can get serious about global warming*, written by Andrew Gage and published by West Coast Environmental Law (WCEL), a British Columbia “non-profit group of environmental law strategists and analysts dedicated to safeguarding the environment through law”. Available at:  
[http://wcel.org/sites/default/files/publications/Professionals%20and%20Climate%20Change\\_0.pdf](http://wcel.org/sites/default/files/publications/Professionals%20and%20Climate%20Change_0.pdf)

# Impact Analysis of Regional Greenhouse Gas Initiative in the U.S. Northeast

Posted on **January 12, 2012** by [elizabethperry493](#)

In 2009, ten Northeastern and Mid-Atlantic states began the Regional Greenhouse Gas Initiative (RGGI), the first market-based program in the U.S. to reduce CO2 emissions from power plants. In a report released in mid-November, 2011, researchers found that the net effect of the first three years of RGGI has been the creation of 16,000 new “job years”, with each of the ten states showing net job additions. Jobs related to RGGI include engineers who perform efficiency audits; workers who install energy efficiency measures in commercial buildings; staff performing teacher training on energy issues; and workers in state-funded programs that might have been cut had a state not used RGGI funds to close budget gaps.

The paper is also an overview of this innovative program. Its unique approach is to “follow the money”, from the auction, where power plant owners spent roughly \$912 million to buy CO2 allowances, to the state level where virtually all the \$912 million in allowance proceeds were disbursed back into the economy in diverse ways such as energy efficiency measures, community-based renewable power projects, assistance to low income customers to help pay their electricity bills, education and job training programs, and even contributions to a state’s general fund. Consumers now pay regional electricity rates that reflect a price on CO2 emissions, and emissions have been reduced because of the RGGI (as well as the economic recession).

## LINKS:

*The Economic Impacts of the Regional Greenhouse Gas Initiative on Ten Northeast and Mid-Atlantic States: Review of the use of RGGI auction proceeds from the first three-year compliance period* by Paul J. Hibbard, Susan F. Tierney, Andrea M. Okie, & Pavel G. Darling published by the Analysis Group at:

[http://www.analysisgroup.com/uploadedFiles/Publishing/Articles/Economic\\_Impact\\_RGGI\\_Report.pdf](http://www.analysisgroup.com/uploadedFiles/Publishing/Articles/Economic_Impact_RGGI_Report.pdf)

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# What is the Role of ILO in Climate Change Adaptation?

Posted on **January 12, 2012** by **elizabethperry493**

In early December, the International Labour Organization (ILO) released a working paper jointly produced by ILO's Employment Intensive Investment Programme and the Green Jobs Programme. *Towards an ILO Approach to Climate Change Adaptation* explores the implications of climate change, its impacts on the world of work, and the role to be played by the ILO. This report is a detailed description of the relevant ongoing work, including the Decent Work Agenda, Green Jobs Programme and Skills for Green Jobs. It also discusses future strategies and priorities for the ILO and identifies three clusters which can serve as a basis for the integration of initiatives: 1) Local resource-based infrastructure, Social Protection, Income and Local Development, 2) Re-skilling, Social Protection and Active Labour Market Policies, and 3) Disaster Risk Reduction and Access to a Range of Financial Services.

## LINKS:

*Towards an ILO Approach to Climate Change Adaptation*. Available at:

[http://www.ilo.org/wcmsp5/groups/public/—ed\\_emp/—emp\\_ent/documents/publication/wcms\\_169569.pdf](http://www.ilo.org/wcmsp5/groups/public/—ed_emp/—emp_ent/documents/publication/wcms_169569.pdf)

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# International Study of Biodiversity and Employment

Posted on **January 12, 2012** by **elizabethperry493**

A report to the European Commission considers the nature and number of jobs linked to biodiversity. Direct jobs are those which manage and conserve protected areas, or in biodiversity sustained sectors, such as in fisheries, forestry and agriculture. In ecosystem services, such as water provision and purification, people are employed in water management and related industries. The number of jobs attributed to biodiversity and ecosystem services is significant both in the EU and developing countries, although there is a difference in distribution and skill-levels. Ecoservice jobs represent 35% of jobs in developing countries compared to 7% in the EU. Also, in



the EU, biodiversity-related employment is often highly skilled, whereas in developing countries, it tends to be low skilled and poorly paid, particularly in primary industries such as agriculture and fishing.

#### LINKS:

*The Social Dimension of Biodiversity Policy: Final Report for the European Commission*, (231 pages) is available at:

<http://ec.europa.eu/environment/enveco/biodiversity/pdf/Social%20Dimension%20of%20Biodiversity.pdf>

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## COP17, the UN Climate Change Conference in Durban

Posted on **January 12, 2012** by [elizabethperry493](#)

The 17th United Nations Climate Change Conference was held in Durban, South Africa in November/ December. Official documents from the conference are posted at the United Nations UNFCCC website at: <http://unfccc.int/2860.php>; for analysis and summaries of the conference, try the detailed and highly-readable report, *On the Road Again*, from the Wuppertal Institute at: [www.wupperinst.org/en/cop](http://www.wupperinst.org/en/cop), or a news report from The Guardian (UK) at: <http://www.guardian.co.uk/environment/2012/jan/05/business-must-get-ready-for-low-carbon-world>. Environment Canada's position statements for the COP 17 are at: <http://www.climatechange.gc.ca/default.asp?lang=En&n=E18C8F2D-1>, and for the record, Canada's statement of withdrawal from Kyoto on December 12 is at: <http://www.ec.gc.ca/default.asp?lang=En&n=FFE36B6D-1&news=6B04014B-54FC-4739-B22C-F9CD9A840800>

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## Quebec Cap and Trade Begins

Posted on **January 12, 2012** by [elizabethperry493](#)

Starting on January 1, 2012, Quebec begins a one-year transition period to help large carbon emitters in the province adjust to its cap and trade policy. The full program will start in 2013 and will require companies which produce more than 25,000 tonnes of greenhouse gases per year (about 75 companies, mainly aluminum and mining) to reduce their carbon footprint or buy clean-air credits at \$10 per tonne of greenhouse gases. A Globe and Mail article is at:

<http://www.theglobeandmail.com/news/politics/quebec-goes-it-alone-with-cap-and-trade-climate-plan/article2273374/>

The text of the draft regulation is available in the Quebec Official Gazette in English at:  
[http://www.mddep.gouv.qc.ca/changements/plan\\_action/projet-reglement/droits-emission-ges\\_an.pdf](http://www.mddep.gouv.qc.ca/changements/plan_action/projet-reglement/droits-emission-ges_an.pdf)

and in French at:

<http://www.mddep.gouv.qc.ca/changements/carbone/reglementPEDE.pdf>

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## B.C. Business Leaders Support Carbon Tax

Posted on **January 12, 2012** by [elizabethperry493](#)

An open letter to the citizens of British Columbia was released on December 19, 2011 and signed by 85 British Columbia business leaders. Citing the urgency highlighted in the recent report by the National Round Table on Energy and the Environment, as well as the example of California and Australia, the letter endorses the current B.C. carbon tax and calls on the government “to commit to a schedule of continuing increases after July 2012” ...to “help us secure a better future, while creating new, high-paying jobs today, in non-polluting industries”. The open letter was coordinated by Tides Canada, The Pembina Institute, and the David Suzuki Foundation, where the full text of the letter is posted at:

[http://www.davidsuzuki.org/media/news/downloads/2011/Carbon\\_Tax\\_Open\\_Letter.pdf](http://www.davidsuzuki.org/media/news/downloads/2011/Carbon_Tax_Open_Letter.pdf)

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## Energy Efficiency in the U.K.

Posted on **January 12, 2012** by [elizabethperry493](#)

Britain has launched a Green Deal consultation to run from December 23, 2011 to January 18, 2012. In a speech in Parliament as part of his annual Energy Statement, the Minister of the Department of Energy and Climate Change discussed the Green Deal, which allows individuals and businesses to make energy efficiency improvements to their buildings at no upfront cost,

allowing repayment in installments through the ongoing electricity bill. The Minister predicts the measures would not only protect property owners from rising energy bills but also support at least 65,000 insulation and construction jobs by 2015. See a summary at:

[http://www.decc.gov.uk/en/content/cms/consultations/green\\_deal/green\\_deal.aspx](http://www.decc.gov.uk/en/content/cms/consultations/green_deal/green_deal.aspx)

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## Change at the Pew Center

Posted on **January 12, 2012** by [elizabethperry493](#)

A press release on November 9, 2011 announced that the Pew Center on Global Climate Change has been succeeded by C2ES, the Center for Climate and Energy Solutions. Funding for the Centre has been shifted from the Pew Charitable Trusts to key sponsors Entergy, HP and Shell, as well as major contributions from the Alcoa Foundation, Bank of America, GE, The Energy Foundation, Duke Energy, and the Rockefeller Brothers Fund. C2ES describes itself as “an independent, non-partisan, non-profit organization working to advance strong policy and action to address the twin challenges of energy and climate change”. The new website is at:

<http://www.c2es.org/>; the press release about the name change and new foci of activity is at:

<http://www.c2es.org/press-center/press-releases/C2ES-launch-announcement>

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## Climate Change and Migration

Posted on **January 12, 2012** by [elizabethperry493](#)

COST, the intergovernmental framework for European Cooperation in Science and Technology, has the goal of coordinating and reducing fragmentation of nationally-funded research on a European level. COST has announced a new “action” which will bring together established and early-stage social scientists to study climate change and migration across three interrelated fields of investigation: knowledge; law and policy; and theory. An overview of the new initiative, to be chaired by Dr. Andrew Baldwin, Department of Geography, Durham University, U.K., is available at: [http://www.cost.esf.org/domains\\_actions/isch/Actions/IS1101](http://www.cost.esf.org/domains_actions/isch/Actions/IS1101)

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# Work and Climate Change Report

The green transition of work and workplaces: Research and News from a Canadian viewpoint

YEARLY ARCHIVES: 2011

## A Call for Policy Changes to Create More and Better Jobs in Canada's Energy Sector

Posted on **November 12, 2011** by **elizabethperry493**

In a study released on October 27, John Calvert and Marjorie Griffin Cohen of Simon Fraser University in Vancouver provide a detailed discussion of employment trends in Canada's energy sector by gender, age, types of occupations, and level of trade union membership. The study finds that, in virtually all areas of energy development, there are skill shortages and the need for additional training. These shortages cover a wide range of different occupations, from engineers and architects to skilled trades, equipment operators, technicians and labourers. Although the renewable energy industry is more labour-intensive than the traditional energy sector, the authors consider its job creation potential as small, given the current policy environment. For example, they characterize job creation in green electricity projects as creating only a small number of permanent jobs, with most job creation in short-term construction jobs, usually in non-union projects. This, they say, is primarily because most new green electricity projects are being built by the private sector. In examining the role of labour unions in policy development, the authors find that their role to date has been largely restricted to dealing with training and other aspects of workforce development. Calvert and Cohen call for a new, comprehensive energy strategy which gives priority to the urgent need to address global warming, and which incorporates a green employment component.

### LINKS:

*Climate Change and the Canadian Energy Sector: Implications for Labour and Trade Unions* is available at the Canadian Centre for Policy Alternatives website at:

<http://www.policyalternatives.ca/publications/reports/climate-change-and-canadian-energy-sector>

For an earlier analysis by Calvert and Cohen, see their chapter (pages 48- 80) in *What Do We Know? What Do We Need to Know? The State of Research On Work, Employment and Climate Change in Canada* (Final Report)(2010) at the W3 website at:

<http://warming.apps01.yorku.ca/wp-content/uploads/2011/08/What-do-we-know-full-report-final.pdf>

See commentary on the report on Keith Brooks' blog at BlueGreen Canada at:

<http://www.bluegreencanada.ca/node/117>

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## Canadian Marine Renewable Energy Industry Sets out its Vision and Strategy; Nova Scotia Develops Policies and Legislation

Posted on **November 12, 2011** by [elizabethperry493](#)

Based on the discussions in three workshops involving more than 100 experts from government, industry and academia, a national vision and strategy for marine energy has been released at the end of October. *Charting the Course: Canada's Marine Renewable Energy Technology Roadmap* sets a vision of becoming a world leader in marine energy, with a generating capacity, installed by Canadian industry, of 75 MW by 2016, 250 MW by 2020 and 2,000 MW by 2030, with an annual economic value of \$2 billion. Regarding the skills demands of the industry, the report states that the marine renewable energy sector is applying general electrical engineering, ocean engineering, and marine operations expertise from other sectors. "As the sector grows, it is unclear whether future needs can be met through the training and expertise developed in other sectors alone. Building a marine renewable energy-specific knowledge base that addresses the specialized needs of the sector can focus efforts to establish a Canadian advantage". Specifically, the document calls for action to set up trades and technology programs in all aspects of marine renewable energy at community colleges between 2011 and 2016, while developing university programs in the same time frame. The goal is that by 2020-2030, 70% of skilled workers in the industry will come from Canadian community college and university programs.

In a report released to the public on September 21, Robert Fournier of Dalhousie University provided the government of Nova Scotia with a compilation of the views from public consultations

on offshore wind and tidal energy in the province, and has made 27 recommendations for the future of marine renewable energy policy and legislation. In discussing the advantages of Nova Scotia for marine energy production, Fournier points out that in addition to the obvious natural advantage of the strong tides of the Bay of Fundy, “The Halifax-Dartmouth area is widely acknowledged to be among the top 5-6 global centers of marine-related research. These human skills are an important resource contributing to all facets of a fledging marine renewable energy initiative”. The government has already accepted Dr. Fournier’s recommendations and is in the process of developing a Marine Renewable Energy Strategy and new legislation. This swift action is in line with Nova Scotia’s Renewable Electricity Plan and regulations, which lay out a legal requirement to achieve 25% renewable electricity supply by 2015, using only environmentally-friendly sources such as hydro, wind, solar, biomass, and tidal.

**LINKS:**

*Charting the Course: Canada’s Marine Renewable Energy Technology Roadmap* is available at:

[http://www.oreg.ca/web\\_documents/mre\\_roadmap\\_e.pdf](http://www.oreg.ca/web_documents/mre_roadmap_e.pdf)

The Fournier Report, *Marine Renewable Energy Legislation: A Consultative Process. Report to the Government of Nova Scotia* is available in English at:

<http://www.gov.ns.ca/energy/resources/spps/public-consultation/marine-renewable-energy/Fournier-Report-English.pdf>

*In French at:*

<http://www.gov.ns.ca/energy/resources/spps/public-consultation/marine-renewable-energy/Fournier-Report-French.pdf>

For a library of international documents concerning marine energy, please visit the Ocean Renewable Energy Group library at:

[http://www.oreg.ca/index.php?p=1\\_50](http://www.oreg.ca/index.php?p=1_50)

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## Wind Energy Plan for B.C.

Posted on **November 12, 2011** by **[elizabethperry493](#)**

*WindVision 2025: A Strategy for British Columbia*, was released by the Canadian Wind Energy Association at its annual conference in Vancouver on October 4th. CanWEA believes that the

share of wind energy as a percentage of total generation in the province can increase from the current 250 MW (megawatts) – or 1 % of electricity demand – to 5,250 MW, or 17 %, by the year 2025. If this is achieved, the Association projects over \$3.7 billion of direct benefits to BC communities during the construction phase alone, generating an estimated 22,500 person-years of employment during construction, and 7,500 person-years of employment over the 20 to 25 year lifespan of the wind energy projects.

#### LINKS:

*Windvision 2025* is available at:

<http://www.canwea.ca/pdf/canwea-bc-windvision-web-e.pdf>

The accompanying review of the plan by consultants ClearSky Advisors is available at:

<http://www.canwea.ca/pdf/clearsky-review-windvision-bc.pdf>

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## Greenbuild Conference in Toronto: October 4-7, 2011

Posted on **November 12, 2011** by [elizabethperry493](#)

For the first time ever, the annual Greenbuild International Conference was held outside the United States, in Toronto from October 4 to 7. Greenbuild, launched in 2002 and organized by the U.S. Green Building Council, attracts a diverse international group of building industry representatives, architects, and product manufacturers. This year, the Green Jobs Summit session of the conference highlighted several keynote speakers including Ken Neumann, National Director of Canada for the United Steelworkers. A new study by McGraw Hill Construction was presented, surveying design and construction professionals and trades workers in the U.S.. It defined “green jobs” as those involving more than 50% of work on green projects or designing and installing uniquely green systems. It found that skilled trades such as carpenters, HVAC/boilermakers, electricians, concrete/cement masons, and plumbers are expected to see the greatest growth in green jobs; 15% of these trades today are green jobs, and this is expected to increase to 25% in three years. 30% of green job workers said that they needed major training when they started, and most report that formal education and training programs will continue to be needed.



The Canadian Construction Sector Council (CSC) reported results of their own survey in March 2011, regarding trends, training and skills levels in Canada's green building industry. The CSC's annual *Construction Looking Forward* survey for 2011 was released in April 2011 and forecasts offer a detailed nine-year scenario of workforce supply and demand by trade, province and region.

#### LINKS:

Press release of the McGraw Hill Construction Green Jobs report is at:

<http://www.construction.com/AboutUs/2011/1004pr.asp>

Canada's Construction Sector Council (March 2011) *Green Sustainable Building in Canada: Implications for the commercial and residential construction workforce* can be ordered at no cost from:

<http://www.csc-ca.org/en/products/green-sustainable-building-canada-implications-commercial-and-residential-construction-work>

*Construction Looking Forward 2011* National and Provincial reports are available at:

<http://www.csc-ca.org/en/products/2011-construction-looking-forward-forecast-reports-and-highlights>

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## New CAW Policy on Transportation puts Sustainability as a Priority

Posted on **November 12, 2011** by [elizabethperry493](#)

At the first ever CAW Transportation Conference, held from September 23-25, the Canadian Auto Workers discussed a draft version of a new policy for transportation in Canada. The starting point of the policy is that "transportation must change", because of three forces: climate change, peak oil, and globalization. The union states its goal: "to create a made-in Canada transportation system that is the most efficient, accessible, green and safe in the world", based on four overarching principles: the transportation system must be environmentally sustainable, recognized as a public good, made-in-Canada, and a place for good jobs. For each of the transportation sectors (road, rail, air, marine) the paper outlines issues and proposes very specific solutions and policy goals.

The document and an accompanying action plan will be discussed and voted on by the National Executive Board, and CAW and Quebec Councils.

#### LINKS:

*We make it move: a vision for sustainable transportation at:*

<http://www.caw.ca/en/10639.htm>

Press release about the Transportation conference at:

<http://www.caw.ca/en/10643.htm>

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## How do International Labour Unions Conceptualize the Jobs vs. Environment Debate?

Posted on **November 12, 2011** by **elizabethperry493**

Authors Nora Rathzel (Dept. of Sociology, Umeå University, Sweden) and David Uzzell (Department of Psychology, University of Surrey, England) have published an academic article which focuses on the ways in which international trade unions are conceptualising the relationship between jobs and the environment. Between March 2009 and December 2010, 35 interviews were conducted with union officials of national unions in Brazil, Malaysia, Singapore, South Africa, Spain, Sweden, and the UK, as well as with international federation officers of these unions in Brussels, Geneva, London and Paris. On the basis of these interviews, the authors present and discuss four discourses of trade union engagement with climate change: 'technological fix', 'social transformation', 'mutual interests' and 'social movement', in the context of the different international histories and models of trade unionism.

#### LINKS:

Rathzel, Nora & Uzzell, David. 2011. "Trade unions and climate change: The jobs versus environment dilemma". *Global Environmental Change* 21 (4): 1215-1223. Available at: [http://epubs.surrey.ac.uk/7307/2/Microsoft Word – GEC\\_Jobs-Environment.pdf](http://epubs.surrey.ac.uk/7307/2/Microsoft Word – GEC_Jobs-Environment.pdf)

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# Ontario Government Launches Review of Feed-in Tariffs

Posted on **November 12, 2011** by **elizabethperry493**

All Ontarians are invited to participate in the review of the FIT Program, either by answering an online survey or making a written submission. The consultation period launched on October 31 and will run until December 14, 2011. The scope of the review includes whether FIT pricing maintains a balance between the interests of ratepayers and the continued encouragement of clean energy investment in Ontario, as well as “an assessment of government policies and tools to ensure that Ontario remains a center of manufacturing excellence and clean energy job creation”. More details and the online survey are available at the Feed-in Tariff Review website at:

<http://www.energy.gov.on.ca/en/fit-and-microfit-program/2-year-fit-review/>

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# Canada's Commissioner of the Environment and Sustainability Releases Audit Report

Posted on **November 12, 2011** by **elizabethperry493**

The report discusses the federal government's assessment of cumulative environmental effects of oil sands projects in northern Alberta, and its climate change plans under the *Kyoto Protocol Implementation Act*. Among the findings: “decisions about oil sands projects have been based on incomplete, poor, or non-existent environmental information that has, in turn, led to poorly informed decisions”. Regarding the climate change plans under the Kyoto Protocol, the Commissioner notes that the plans do not report the total amount of government funding, and that financial information for the individual measures is not reported consistently (and even that some of the measures do not include any financial information). In this report, the auditors determine the funding allocations associated with each measure in the plans, and conclude that the federal government allocated over \$9.2 billion to implement its climate change plans.

See the Audit report of the Commissioner of the Environment and Sustainable Development at: [http://www.oag-bvg.gc.ca/internet/docs/parl\\_cesd\\_201110\\_00\\_e.pdf](http://www.oag-bvg.gc.ca/internet/docs/parl_cesd_201110_00_e.pdf) (English) and [http://www.oag-bvg.gc.ca/internet/docs/parl\\_cesd\\_201110\\_00\\_f.pdf](http://www.oag-bvg.gc.ca/internet/docs/parl_cesd_201110_00_f.pdf) (French)

The reaction of the Pembina Institute is at: <http://www.pembina.org/media-release/2276>

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## Economic Impact on Canada of GHG Emissions, and a Closer Look at the Forest Industry, Coastal Areas, and Human Health

Posted on **November 12, 2011** by [elizabethperry493](#)

At the end of September, the National Round Table on the Environment and the Economy released the 4th report in its Climate Prosperity series. *Paying the Price: the Economic Impacts of Climate Change for Canada* warns that unless global greenhouse gas emissions are reduced and Canada invests in adaptation, the economic impacts of climate change on Canada could reach \$5 billion per year by 2020, and between \$21 and \$43 billion per year by 2050. Because climate change impacts will differ by sector and by region, the report also considers adaptation strategies and provides estimates of economic impacts and cost-effectiveness of those strategies for three representative areas: timber supply, coastal areas and human health. Economic impacts are measured in changes to GDP, but the report does not specifically measure impacts on employment. Read *Paying the price: the economic impacts of climate change for Canada* (168 pages) at:

<http://nrtee-trnee.ca/wp-content/uploads/2011/09/paying-the-price.pdf> (English) and <http://nrtee-trnee.ca/wp-content/uploads/2011/09/prix-a-payer.pdf> (French)

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## New Skills Training for Wind, Wave and Tidal Energy Jobs in the U.K.

Posted on **November 12, 2011** by [elizabethperry493](#)

RenewableUK, a renewable energy trade association, announced the creation of the Renewables Training Network (RTN) on October 6, 2011. With £600,000 support from private industry and matching investment from the UK government, the training network “will address critical skills shortages within the renewable energy industry”, and according to the press release, the network is “paving the way for over 77,500 new jobs in UK wind, wave and tidal industries and supply chain

within next ten years". This investment follows on a survey, *Working for a Green Britain: Future Employment and Skills in the UK Wind & Marine Industries* published by the association in July 2011. See the Training Network press release at:

<http://www.bwea.com/media/news/articles/pr20111006-1.html>

see *Working for a Green Britain* at:

[http://www.bwea.com/pdf/publications/Working\\_for\\_Green\\_Britain\\_V2.pdf](http://www.bwea.com/pdf/publications/Working_for_Green_Britain_V2.pdf)

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## CAW Launches New Course Re Good Jobs in a Green Economy

Posted on **November 12, 2011** by [elizabethperry493](#)

Twenty-five CAW rank-and-file activists attended the first pilot session of a new course that ran from October 3-6. The program included keynote speakers Tony Clarke, Executive Director of the Polaris Institute and Gideon Forman, Executive Director of the Canadian Association of Physicians for the Environment. The course provided an overview of some of the key environmental issues, including climate change, food security and water issues, and discussed the transformation needed to fight for a green economy, examined the impacts on workers and the role that unions can play, and enabled participants to build activist links within the CAW and with allied environmental organizations.

See the press release at:

<http://www.caw.ca/en/10691.htm>

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## Forthcoming ILO Study on Skills for Green Jobs

Posted on **October 12, 2011** by [elizabethperry493](#)

Watch for an important new report, *Skills for Green Jobs*, to be released by the ILO Green Jobs Programme on October 15, 2011. It will examine the experiences of 21 developed and developing countries, including Australia, Brazil, China, India, South Korea, South Africa, France, Germany, Spain, U.K., and the U.S. Canada is not profiled. This comprehensive work identifies the sectors most affected by the shift to green restructuring, the changing and emerging occupations in major economic sectors, as well as gender implications. It concludes that, while a few new occupations will emerge in the transition to a greener economy, “massive change” will occur in existing occupations, and at all levels of occupations, across all sectors. Of note for further research: discussions of “Measuring and classifying green jobs and related skills”, and “Identifying skill needs: Evaluating existing systems and tools”. The report concludes that successful transition to a greener economy will require efficient re-training and skills upgrading, especially for the disadvantaged in the labour market. A key message is the need for coherence and coordination of environmental and skills policies.

#### LINKS:

Summary and links to *Skills for Green Jobs* are available at:

[http://www.ilo.org/global/publications/books/forthcoming-publications/WCMS\\_159585/lang-en/index.htm](http://www.ilo.org/global/publications/books/forthcoming-publications/WCMS_159585/lang-en/index.htm). This webpage also provides links to detailed country study reports for each of the 21 countries summarized in *Skills for Green Jobs*.

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## A Plan and Green Jobs in a Greener Sector: British Columbia's Forestry Industry

Posted on **October 12, 2011** by [elizabethperry493](#)

A paper released by the Canadian Centre for Policy Alternatives in August 2011 envisions a more carbon-focused, “green” approach to the forests and forest industry of B.C. Author Ben Parfitt covers a lot of ground in this document, including the prospects for exports to China; the loss of wood processing jobs to other provinces; the need for a workable carbon tax accounting system for forestry. Of the employment benefits of a greener approach, the report estimates 2,630 new jobs from processing logs into solid wood, pulp and paper and bio-energy products in B.C. rather than out of province, 2,400 forest industry jobs from processing usable wood waste left behind at logging operations, 5,200 seasonal jobs in tree-planting and associated tree nursery work, as well as eventually 10,100 jobs as a result of increased higher value manufacturing. He provides detailed policy recommendations which centre on: greater secondary forest products manufacturing; maximum use of forest industry wood waste in a range of bio-products; greater

forest conservation (with carbon credits acting as an incentive to achieving such conservation); and more effective reforestation efforts. As he has done before, Parfitt calls for a restoration of staff levels in the provincial Forest Service.

#### LINKS:

“Making the Case for a Carbon Focus and Green Jobs in BC’s Forest Industry” by Ben Parfitt is available from a link at:

<http://www.policyalternatives.ca/greenforests>

BC forestry missing out on great green job potential at:

<http://www.policyalternatives.ca/publications/commentary/bc-forestry-missing-out-great-green-job-potential> is a conversational summary of the report by the author.

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## Solar Industry Shows Superior Job Growth

Posted on **October 12, 2011** by [elizabethperry493](#)

With most eyes on the continuing story of the bankruptcy of U.S. solar manufacturer Solyndra, the Solar Foundation of the U.S. has pre-released preliminary data from the National Solar Jobs Census 2011, ahead of the full release scheduled for October 19, 2011. Census 2011 measured employment growth in the U.S. from August 2010 to August 2011 and found that solar businesses added 6,735 new workers since August 2010, representing a 6.8 percent growth rate. When measured against overall economic data from Economic Modeling Specialists, Inc. (EMSI), this rate of job growth outpaced the overall U.S. economy (which grew by 0.7 percent) and fossil fuel electric generation (which lost 2 percent of its workforce).

Notably, Solyndra announced layoffs of approximately 1,100 full-time and temporary employees on August 31st. However, if the New York Times coverage is any indication, the real story of Solyndra is less about the viability of the solar power industry and more about political interference and lobbying in Washington.

A July 2011 report from the European Commission Joint Research Centre (JRC) provides good news for the solar energy industry. The 10th edition of the PV Status Report provides data on the solar industry in the EU, India, China, South Korea, Taiwan, and the U.S. It shows that global production of photovoltaics more than doubled in 2010, making it one of the world's fastest growing industries. The EU has the most PV installations, providing more than 70% of the total worldwide solar PV electricity generation capacity as of the end of 2010. China has become the major manufacturing centre for solar cells and modules followed by Taiwan, Germany and Japan.

The most recent survey of the Canadian solar photovoltaic sector comes from the Canadian Solar Industry Association, in a report they commissioned from Clear Sky Advisors Inc. and released in July 2011. The Economic Impacts of the Solar Photovoltaic Sector in Ontario 2008-2018 states that the solar PV sector in Ontario provides 8,200 full-time jobs in 2011, and is projected to create over 74,000 jobs by 2018. As the report acknowledges in its scenarios, these projections depend on political support for long range energy policies.

#### **LINKS:**

National Solar Jobs Census 2011 press release is at:

<http://www.thesolarfoundation.org/sites/thesolarfoundation.org/files/2011%20Jobs%20Census%20Topline%20Release%20FINAL.pdf>

The Solar Foundation homepage is at:

<http://thesolarfoundation.org/home/rich-history-bright-future>

Solyndra company press release of August 31 2011 is at:

<http://www.solyndra.com/news>

"In Rush To Assist A Solar Company, U.S. Missed Signs", from the New York Times, September 23, 2011 at:

[http://www.nytimes.com/2011/09/23/us/politics/in-rush-to-assist-solyndra-united-states-missed-warning-signs.html?\\_r=1&hp](http://www.nytimes.com/2011/09/23/us/politics/in-rush-to-assist-solyndra-united-states-missed-warning-signs.html?_r=1&hp)



PV Status Report by the European Commission Joint Research Centre is available at:  
<http://re.jrc.ec.europa.eu/refsys/pdf/PV%20reports/PV%20Status%20Report%202011.pdf>

The Economic Impacts of the Solar Photovoltaic Sector in Ontario 2008-2018 is available at:  
[http://www.cansia.ca/sites/default/files/economic\\_impacts\\_of\\_the\\_solar\\_photovoltaic\\_sector\\_in\\_ontario\\_2008-2018\\_july\\_26\\_0.pdf](http://www.cansia.ca/sites/default/files/economic_impacts_of_the_solar_photovoltaic_sector_in_ontario_2008-2018_july_26_0.pdf)

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## Jobs in the U.S. Recreational Tourism Sector

Posted on **October 12, 2011** by **elizabethperry493**

This report from the Center for American Progress reviews recent research in the United States on the direct, indirect, and induced jobs created by the conservation economy-recreational tourism, renewable energy, land restoration, and sustainable forestry and land management. The report estimates the size of the current job market in each of these sectors, with the disclaimer that these numbers are likely underestimated because of a scarcity of research on jobs in restoration and forest management. The size of this sector is impressive, even if it is underestimated: recreation and tourism on Department of the Interior Lands is estimated at 388,000 jobs, with an additional 224,000 jobs on Forest Service Lands. The report makes 15 policy recommendations to encourage further job creation, including a call for increased effort to track the number of jobs and the economic impact of land conservation on rural communities.

### LINKS:

The Jobs case for Conservation: Creating opportunity through stewardship of America's public lands by Jessica Goad, Christy Goldfuss, and Tom Kenworthy is available at the Center for American Progress website at:

[http://www.americanprogress.org/issues/2011/09/pdf/public\\_lands.pdf](http://www.americanprogress.org/issues/2011/09/pdf/public_lands.pdf)

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# Workplace Education Regarding Climate Change for B.C. Public Sector Workers

Posted on **October 12, 2011** by **elizabethperry493**

On August 29th, the Pacific Institute for Climate Solutions (PICS) at the University of Victoria launched an online climate change course aimed at public sector workers, most specifically policy analysts in British Columbia. "Climate Insights 101" is the first of four planned modules; it uses a combination of animation, interviews and click-thrus to educate about the basic concepts and findings of climate science research. Module two (regional climate change and its impacts), module three (adaptation) and module four (mitigation) are currently in production and are planned for release next year. In launching this workplace education initiative, the provincial Minister of the Environment, Terry Lake, is quoted as saying that "building a solid knowledge base within the province's civil service is essential because climate change will impact not only the environment but also the economy, the way we live, how we use our land and water, and what our future agricultural options are".

## LINKS:

Press release describing the initiative at:

[http://www.pics.uvic.ca/assets/pdf/news/MR\\_Short\\_Courses\\_29August2011.pdf](http://www.pics.uvic.ca/assets/pdf/news/MR_Short_Courses_29August2011.pdf)

Climate Insights 101 course at: <http://www.pics.uvic.ca/insights/>

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## Keystone Pipeline Protest Includes a Concern for Lost Jobs

Posted on **October 12, 2011** by **elizabethperry493**

Dave Coles, President of the Communications, Energy and Paperworkers Union, was among those arrested in Ottawa on September 26th for protesting against the Keystone XL pipeline from Alberta to Texas. The union has consistently opposed construction of the pipeline, on the grounds of environmental damage, energy security for Canada, and because of the loss of potential oil

refining jobs in Canada. The CEP bases its arguments on a 2006 study by Informetrica, which estimated that the increased export of Alberta bitumen will cost the Canadian economy 40,500 potential direct and indirect jobs. CEP is calling on the federal government to reverse the decision to allow construction of the Keystone pipeline.

#### **LINKS:**

Communications Energy and Paperworkers Union Backgrounder on Keystone XL at:  
<http://www.cep.ca/docs/en/110922-keystone-xl-backgrounder-e.pdf>

National Energy Board Reasons for Decision regarding the Keystone Pipeline, case OH-1-207, issued in September 2007. Note chapter 9, which summarizes the socio-economic arguments made by CEP, the Alberta Federation of Labour, Parkland Institute and Dr. Laxer at:  
[https://www.neb.gc.ca/livelink.exe/fetch/2000/90464/90552/418396/446070/478070/477791/A1A4H2\\_-\\_Reasons\\_for\\_Decision\\_OH-1-2007.pdf?nodeid=477856&vernum=0](https://www.neb.gc.ca/livelink.exe/fetch/2000/90464/90552/418396/446070/478070/477791/A1A4H2_-_Reasons_for_Decision_OH-1-2007.pdf?nodeid=477856&vernum=0) (English)

[https://www.neb.gc.ca/livelink.exe/fetch/2000/90464/90552/418396/446070/478070/477791/A1A4H3\\_-\\_Motifs\\_de\\_d%E9cision\\_OH-1-2007.pdf?nodeid=477859&vernum=0](https://www.neb.gc.ca/livelink.exe/fetch/2000/90464/90552/418396/446070/478070/477791/A1A4H3_-_Motifs_de_d%E9cision_OH-1-2007.pdf?nodeid=477859&vernum=0) (français)

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## **Fife Wind Farm to Fund Apprenticeship Training**

Posted on **October 12, 2011** by **elizabethperry493**

Carbon Free, a wind farm developer, has partnered with Adam Smith College in Fife, Scotland in a unique community benefit scheme. According to the agreement, the revenues from the electricity generated will support a minimum of 5 apprenticeships per year over 25 years, to provide employment opportunities to people living near the wind farm, and to address skills shortages in the engineering sector. The 8-turbine Earlseat wind farm was approved by local councils on September 20th and is expected to be built by the end of 2013. For a fuller news report go to:

<http://www.businessgreen.com/bg/news/2110580/fife-wind-farm-hails-green-apprenticeship>

## Website to Monitor Country Actions on Mitigation

Posted on **October 12, 2011** by [elizabethperry493](#)

On September 9, 2011, the Open Climate Network website was launched as a platform for updates and analysis on country actions on climate mitigation and the provision of climate finance. The website provides information on the latest policy developments and results of Open Climate Network analysis. Participant countries include: Australia, Brazil, Canada, China, European Union nations, India, Japan, Mexico, Norway, South Africa, and the United States. Clare Demerse of Canada's Pembina Institute is one of the five Network Experts. Visit the network at:

<http://insights.wri.org/open-climate-network/2011/09/open-climate-network-launches-website-track-national-progress-climate-c>

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## Feed-in Tariff Programs and the WTO

Posted on **October 12, 2011** by [elizabethperry493](#)

A new paper released by the International Centre for Trade and Sustainable Development (ICTSD) examines the local content regulations of the FIT programmes implemented by Ontario, Germany and the United Kingdom in the context of the World Trade Organization subsidy rules. The Ontario cases are the first WTO disputes related to climate change, and are being watched for their ramifications for all future climate-change related trade disputes.

### ***LINKS:***

Feed-in Tariffs for Renewable Energy and WTO Subsidy Rules: an initial legal analysis by Marie Wilke of the ICTSD is available at: <http://ictsd.org/i/publications/112508/>

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# Green Expectations

Posted on **September 12, 2011** by **elizabethperry493**

Green Expectations, published by the U.K. think tank the Institute for Public Policy Research, reports on a learning exchange in March 2011, when the Institute led a group of community leaders, trade union and NGO representatives to California to meet with politicians, business people, academics and civil society leaders engaged in the emerging green economy. The report draws together case studies and analysis of key literature about green job creation and the quality of green jobs. Three case studies are presented: Community Workforce Agreements (Clean Energy Works, Oregon); Community Mobilisation Initiatives (Green Justice Coalition, Massachusetts), and a joint industry-union training partnership, (International Brotherhood of Electrical Workers union (IBEW) and the National Electrical Contractors' Association (NECA), California).

The report draws policy implications for the green economy in the U.K., and points out that “the US experience demonstrates how strength emerges from a broad base: strong coalitions are needed between the government, trade unions, employers and environmental and community groups to build a ‘just transition’ to a low-carbon economy, to advocate for greater policy stability and to defend existing policy”.

There are also valuable appendices: Appendix A compiles and summarizes U.S. Green Economy job projections and estimates from 12 major studies; Appendix B describes some important U.S. Green economy organizations: Apollo Alliance, Emerald Cities, Richmond BUILD, Green for All, and the Ella Baker Center Green Jobs campaign. Appendix C presents Green Economy coalitions and organizations in the U.K.: East London Green Jobs Alliance; Global Action Plan; TUC Green Workplaces; Claverhouse Group; Greener Jobs Alliance; Capacity Global's Greener Jobs Programme.

## LINKS:

*Green Expectations: Lessons from the US Green Jobs Market*, published by the Institute for Public Policy Research in the U.K. at: [http://www.ippr.org/images/media/files/publication/2011/07/green-expectations\\_July2011\\_7756.pdf](http://www.ippr.org/images/media/files/publication/2011/07/green-expectations_July2011_7756.pdf)

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# Detailed Data and Policy Recommendations for the U.S. Clean Economy

Posted on **September 12, 2011** by **elizabethperry493**

*Sizing the Clean Economy*, published by the Brookings Institute in July 2011, claims to be “the first study of the U.S. clean economy to provide timely information that is both comprehensive enough in its scope and detailed enough in its categorization to inform national, state, and regional leaders on the dynamics of the U.S. low-carbon and environmental goods and services “super-sector” as they are transpiring in regions and metropolitan areas”. Of the U.S. green economy between 2003 to 2010, the report finds: Clean economy jobs are predominantly in manufacturing (26%, compared to 9% green jobs in the economy as a whole) and provide more opportunities with better pay for lower-skilled workers. Highly trained innovators-scientists, engineers, and architects-are disproportionately demanded by the clean economy. 64 percent of all current clean economy jobs and 75 percent of its newer jobs created between 2003 to 2010 congregated in the 100 largest metropolitan areas in the United States. The report’s discussion and policy recommendations emphasize the need for detailed regional and local market labour market information.

## LINKS:

*Sizing the Clean Economy: A National and Regional Green Jobs Assessment* at:

[http://www.brookings.edu/~media/Files/Programs/Metro/clean\\_economy/0713\\_clean\\_economy.pdf](http://www.brookings.edu/~media/Files/Programs/Metro/clean_economy/0713_clean_economy.pdf)

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# Modelling the Impact of Clean Energy Innovation

Posted on **September 12, 2011** by **elizabethperry493**

Google.org, the philanthropic arm of Google Inc., has released an analysis using McKinsey and Company’s U.S. Low Carbon Economy model to estimate the potential impact of clean energy innovation on the U.S. energy system and economy by 2030 and 2050. The results compare a “business as usual” approach with other scenarios of aggressive technological innovation and strong government incentives for clean energy. It concludes that strong technological innovation

alone could result in over 1.1 million net new jobs by 2030, while improving economic output and reducing emissions.

**LINKS:**

*The Impact of Clean Energy Innovation: Examining the Impact of Clean Energy Innovation on the United States Energy System and Economy at:*

[http://www.google.org/energyinnovation/The\\_Impact\\_of\\_Clean\\_Energy\\_Innovation.pdf](http://www.google.org/energyinnovation/The_Impact_of_Clean_Energy_Innovation.pdf)

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## Education and Competency Standards for Green Occupations in Canada

Posted on **September 12, 2011** by [elizabethperry493](#)

ECO Canada has released the 2011 survey of the state of environmental programs in Canada's post-secondary educational institutions, updating its 2010 report. As of 2006, there was a total of 127,170 enrolments in environmental programs in universities and colleges in Canada, compared to 109,074 in 2001. Measuring enrolment numbers between 2006 and 2008, the report notes a transition in enrolment from colleges to universities, especially in 3 programs: natural resources and conservation, biological and biomedical science, and physical sciences.

In June 2011, the Greenhouse Gas Management Institute and the Environment Careers Organization of Canada (ECO Canada) announced an Environmental Professional in Greenhouse Gas – EP (GHG) – designation. This title is available to professionals who have been working for 5 or more years in the areas of GHG quantification or verification. (A trainee designation is also available for those with less than 5 years experience). ECO Canada has also released a scoping study for building operators, as a step toward defining and measuring a profession which can help reduce the amount of energy used in buildings in the commercial and institutional sectors.

**LINKS:**

*Post-Secondary Environmental Education in Canada at:*

<http://www.eco.ca/pdf/ECO-Secondary-Education-RPT-2011.pdf>

*Competencies for GHG Professionals: National Occupational Standards at:*

<http://www.eco.ca/pdf/2009-NOS-for-Greehouse-Gas-Professionals.pdf>

*Building Operators Scoping Study: 2011 Labour Market Research Study at:*

<http://www.eco.ca/pdf/2011-Building-Operator-Scoping-Study.pdf>

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## Ontario's Feed-in Tariff Program Moves Closer to Arbitration at the WTO

Posted on **September 12, 2011** by [elizabethperry493](#)

On July 20, 2011, the World Trade Organization established a panel to arbitrate the case of "Canada – Certain Measures Affecting the Renewable Energy Generation Sector" (DISPUTE DS412), to determine whether feed-in tariff programme violates WTO law by providing guaranteed long-term pricing for the output of renewable energy generation facilities that source up to 60% of their inputs from Ontario. Although the panel has been established, no members have been appointed yet. All documents are compiled at:

[http://www.wto.org/english/tratop\\_e/dispu\\_e/cases\\_e/ds412\\_e.htm](http://www.wto.org/english/tratop_e/dispu_e/cases_e/ds412_e.htm)

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## Quebec Cap and Trade

Posted on **September 12, 2011** by [elizabethperry493](#)

On July 6, the government of Quebec tabled regulations for a cap-and-trade system, based on the Western Climate Initiative (WCI) model. A 60-day consultation period is underway. The planned implementation of the system will be January 1, 2012, with only the reporting of greenhouse gas emissions and carbon trading required in year one. Read Dale Marshall's remarks from the David Suzuki Foundation website at: <http://www.davidsuzuki.org/blogs/climate-blog/2011/07/quebec-takes-next-step-towards-a-cap-and-trade-system/>

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# Oil Sands Monitoring

Posted on **September 12, 2011** by **elizabethperry493**

Canada's Environment Minister released a monitoring plan for the oil sands region on July 21, 2011. Following the 2010 recommendation of an independent Oil Sands Advisory Panel, the new plan includes components for monitoring air quality, biodiversity, and the next phase of water quality monitoring. The federal government and the government of Alberta will implement the plan, according to the Environment Canada press release at: <http://www.ec.gc.ca/default.asp?lang=En&n=714D9AAE-1&news=DA1E8CBC-D0A6-4304-A1DD-A9206D0818AB>

See the full plan at: <http://www.ec.gc.ca/default.asp?lang=En&n=56D4043B-1&news=7AC1E7E2-81E0-43A7-BE2B-4D3833FD97CE>

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## Emissions Standards for Heavy-Duty Trucks in Canada and the U.S.

Posted on **September 12, 2011** by **elizabethperry493**

On August 9, 2011, Canada's Environment Minister released a consultation document for proposed regulations to limit greenhouse gas emissions and improve fuel efficiency of new on-road heavy-duty vehicles, including full-size pick-up trucks, tractor-trailers, freight, delivery, service, cement, garbage and dump trucks, as well as buses, beginning with the 2014 model year. The proposed regulations will be published in the Canada Gazette, Part 1, in early 2012. At that time, there will be a formal 60-day consultation period. Regulations are scheduled for later in 2012, with an implementation date to be aligned with that of the U.S.

This initiative has been in the works since May 21, 2010, when Canada and the U.S. announced their intentions to proceed with joint North American regulations. On August 9, 2011, the U.S. Environmental Protection Agency (EPA) and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) published the U.S. regulations.

**LINKS:**

Environment Canada. *Consultation Document for Discussion of the Main Elements of the Proposed Regulations under the Canadian Environmental Protection Act, 1999 to Limit Greenhouse Gas Emissions from New On-Road Heavy-Duty Vehicles and Engines* at:  
<http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=E826C69F-1>

United States. Environmental Protection Agency. Regulations and Standards website compiles links to regulations and background information at:  
<http://www.epa.gov/otaq/climate/regulations.htm>

Canadian Trucking Alliance submission re the GHG reduction plan at:  
<http://www.cantruck.ca/imispublic/Environment1/AM/ContentManagerNet/ContentDisplay.aspx?Section=Environment1&ContentID=8373>

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## Australian Legislation Includes Carbon Pricing

Posted on **September 12, 2011** by **elizabethperry493**

The Australian government released drafts of several bills, including a carbon pricing mechanism, in a Clean Energy Legislative Package on July 28, 2011. See *Securing a Clean Energy Future: the Australian Government's Climate Change Plan*, and especially Chapter 5, Supporting Jobs, at:  
<http://www.cleanenergyfuture.gov.au/wp-content/uploads/2011/07/Consolidated-Final.pdf>

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## International Renewable Energy Industry

Posted on **September 12, 2011** by **elizabethperry493**

*Renewables 2011: Global Status Report* was released in July by the Renewable Energy Global Policy Network for the 21st Century (REN21). Since 2005, this annual has benchmarked market and industry trends (including investment flows & national policies) for all renewable energy sectors: solar, wind, geothermal, biomass, hydroelectric. Note the table re:employment in renewables, by sector in Chapter 3. *Renewables 2011* at:  
[http://www.ren21.net/Portals/97/documents/GSR/REN21\\_GSR2011.pdf](http://www.ren21.net/Portals/97/documents/GSR/REN21_GSR2011.pdf)

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# United Nations 2011 World Economics and Social Survey

Posted on **September 12, 2011** by **elizabethperry493**

*The Great Green Technological Transformation* is available at:

[http://www.un.org/en/development/desa/policy/wess/wess\\_current/2011wess.pdf](http://www.un.org/en/development/desa/policy/wess/wess_current/2011wess.pdf). The report focuses on three themes: transition to renewable sources of energy; promotion of small-holder agriculture and environmentally-intelligent farming technology; and development of new technology to reduce disaster risk to adapt to climate change.

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