

News

[Environment](#) [Energy production](#) [Event](#) [Sustainable development](#)

BG's 2013 "System and Sustainable Development" Prize



Dimitri Weideli - crédit photo: EPFL

Published on 30.10.2013

BG annually offers a prize for an EPFL master's degree that makes a significant contribution to designing sustainable development systems. The winner of the 2013 prize is Dimitri Weideli, from the Micro-engineering department, for his Master's thesis entitled "Environmental Analysis of Online Shopping in the United States".

The jury, consisting of Prof. Laurent Vulliet (BG and EPFL), the Chairman; Prof. Christof Holliger (EPFL); and Frank Doppenberg (BG), met on Thursday, September 23, 2013. The award was presented to the laureate on the EPFL's commencement day, October 5, 2013.

Mr. Weideli worked in partnership with MIT to develop a realistic analytical model for describing greenhouse gas emissions throughout the purchasing process, from the warehouse to the end customer's home. Using several models of purchasing behaviour (from traditional in-store purchases to those made entirely by remote means) and statistics available in the United States, he looked specifically at three kinds of product purchases: electronics, clothing, and toys.

He was able to quantify the environmental impact related to transportation, the energy consumption of buildings, the Internet, and packaging. Some things that stood out were the important role played by packaging and the return rate for products ordered online; and the impact of transportation used for repeated store visits during the decision-making process for in-store purchases. The study yielded a wealth of information and suggests ways to reduce greenhouse gas emissions regardless of the purchase mode.

Related news



Jade Rudler Wins the 2013 BG "Construction and Sustainable Development" Prize

[Environment](#) [Environment](#) [Event](#) [Sustainable development](#) [Vision](#)

Samuel Bruchez - ECAL - Winner of BG's 2013 Award for Sustainable Development

[Environment](#) [Environment](#) [Event](#) [Sustainable development](#) [Vision](#)

Related content

Sections

[Environment](#)

[Territorial energy planning](#)

[Group](#)

[All sections](#)

Projects



Water Management on the Ru de la Lande, Val-de-Marne (Paris suburbs, France)



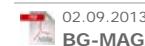
M'Zab valley: sanitation and flood protection



Regional Energy Planning: Feasibility Study for a Heating Network in Crans-Montana

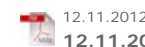
[All projects](#)

Documents



02.09.2013

BG-MAGAZINE - 2013 edition



12.11.2012

12.11.2012: BG Strengthens its Energy-Sector Business by Bringing in ENR Concept



14.06.2012

BG Consulting Engineers Magazine BG-21.com - 2012 Edition

[All documents](#)

Job opportunities

Ingénieur stagiaire en électricité (H/F), Ivry/Seine

Projektleiter/in für ARA-Ausbau und allg. Tiefbau, Bern

Ingénieur Hydraulicien, en Génie Civil ou en Environnement (H/F), Paris

[All job opportunities](#)