



Overview

In early 2010, IBM brought together leaders from various businesses, institutions and geographies to determine the actions to build a sustainable future.

The consensus: eco-efficiency will be the biggest economic “game changer” for organizations over the next 20 years. To get there will require stakeholders – public, private, institutional and others – to collaboratively address the key drivers, challenges and opportunities of the emerging eco-efficient economy.

IBM Institute for Business Value

The emergence of the eco-efficient economy

The IBM Eco-efficiency Jam 2010: Key messages from a global online discussion on eco-efficiency¹

What practical actions can be taken today and in the near future to create a more eco-efficient and sustainable economy?

To answer this question, IBM brought together for the first global Eco-efficiency Jam 1,600 business executives, government officials, non-governmental organization (NGO) leaders, journalists, analysts and environmental experts from more than 60 countries. Discussion focused on the primary drivers, opportunities and challenges associated with an eco-efficient economy.

Three core conclusions emerged from the collaborative discussion:

- Eco-efficiency is poised to become the biggest economic game-changer for organizations over the next 20 years.
- Direct and collaborative action from a range of stakeholders will be needed to address the challenges and opportunities posed by eco-efficiency.
- There is a strong imperative for stakeholders to advance the eco-efficient economy.

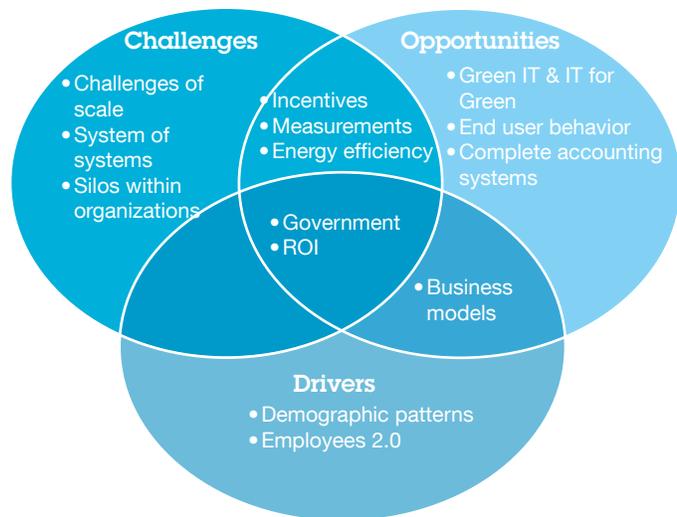
The emerging eco-efficient economy

Jam participants clearly asserted the need for a fully self-sustaining economic system, which would be supported by new sources of revenues, generate new demand and create new markets for eco-efficiency.



Jam discussions also revealed a number of key stakeholders with important roles in driving forward eco-efficiency, including government and policymakers, public and private enterprises, NGOs, investors, consumers and employees. Two in particular – government and policymakers, and public and private enterprises – have key roles to play. They must not only lead by example, but also drive eco-friendly regulatory and policy initiatives and foster economic and urban stability. Additionally, they will need to introduce new incentives to promote eco-efficiency and engage with enterprises and NGOs in developing frameworks for measuring, benchmarking and communicating environmental impact information.

To create a self-sustaining, eco-efficient economy, stakeholders will need to act on a large and broad set of drivers, challenges and opportunities, including 14 “themes” Jam participants noted as central to eco-efficiency (see Figure).



Source: IBM Institute for Business Value analysis of Jam outputs.

Figure: The challenges, opportunities and drivers of an eco-efficient economy.

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Best practice recommendations from the Jam

- 1) Leverage innovation to deliver “green” infrastructures that are highly efficient and overlay the physical infrastructure with digital intelligence
 - 2) Implement sustainable solutions that promote resource efficiency and reduce the environmental and social impact of operations
 - 3) Embrace intelligent systems that use open standards to provide near realtime information for better management of the infrastructure, water quantities, or, even, entire transportation systems.
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An imperative to act now

Jam participants expressed a strong view that the next 20 years will be the age of the eco-efficient economy. Stakeholders must act now and decisively to advance the eco-efficient economy agenda. Consistent with this belief, the majority of Jam participants expect eco-efficient investment to accelerate over the next two-to-three years. Those who understand and embrace this will find they have deepened their engagement with their stakeholders, employees and customers.

How can IBM help?

- **Green Infrastructure:** Benchmark against industry best practices and recommend steps to make your IT more eco-efficient.
- **Sustainable Solutions:** Identify and reduce inefficiencies related to carbon, water, energy and waste throughout your organization’s operations and processes.
- **Intelligent Systems:** Gather, synthesize and apply information at the macro level to change the way entire industries operate.

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Reference

- 1 Eco-efficiency is broadly defined as the delivery of competitively priced goods and services that satisfy human needs – while progressively reducing the environmental impact and resource intensity of goods and services throughout their lifecycle (see “Terms.” Factor 10 Institute. <http://www.factor10-institute.org/terms.html>)