

Belgium

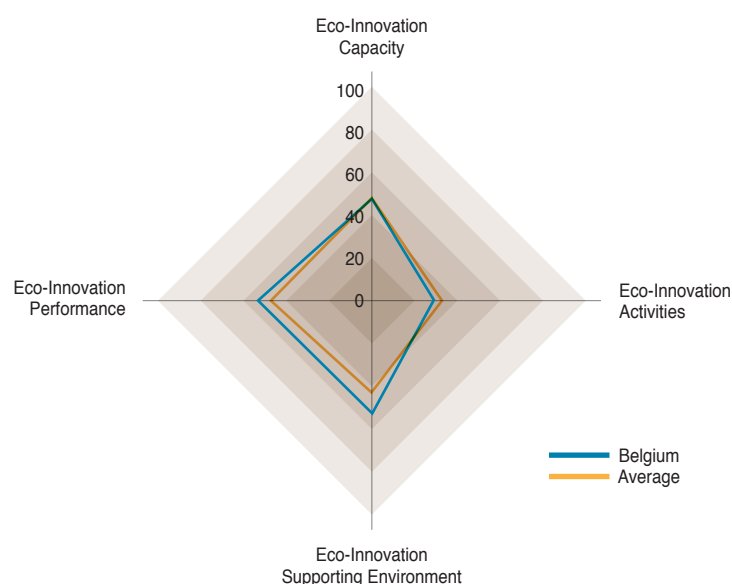


Fig 16. ASEI Result: Belgium

Belgium's Eco-Innovation Quantitative Analysis

According to the ASEI 2013, Belgium scores slightly above the average scale (Belgium: 48/100, Average: 43/100) when compared to the other twenty four ASEM member countries evaluated by the ASEI.

- ➔ *"Eco-Innovation Capacity" criteria score is average:* Country's Economic Competitiveness and Green Technology possessed/acquired Firms indicators are higher than average, but Green Technology R&D Institution Capacity and Awareness of Sustainability Management indicators show lower than average scores.
- ➔ *"Eco-Innovation Supporting Environment" criteria is above average:* Government's R&D Expenditure in Green Industry and Maturity of Investment Setting for Green Technology Industry Implementation of Environmental Regulations indicators represent average-level scores and Investment Scale towards Green Technology SMEs indicator far outweighs the average.
- ➔ *"Eco-Innovation Activities" criteria falls slightly below average:* Commercialization Level of Green Technology and Green Patents indicators are above average while, Firms' Participation on Environmental Management System and Activeness of Renewable Energy Utilization indicators demonstrate low scores.
- ➔ *"Eco-Innovation Performance" criteria is higher than average:* Country's Energy Sustainability level and Jobs in Green Technology Industry indicators gained high scores, but Green Industry Market Size indicator shows lower than average score.

Belgium's Eco-Innovation Supporting Environment: Qualitative Research

	National Vision & Strategy	National Policy & Programmes	Network, Partnership & Organizations
Eco-Innovation	<ul style="list-style-type: none"> ■ National Energy Efficiency Action Plan 2008-2016 (NEEAP) ■ Eco Management and Audit Scheme (EMAS) (2005) ■ Strategic Policy Plan 2010 – 2015 on Waste, Materials and Soil Management (2009) ■ The Federal Products Plan (2009-2012) ■ Walloon Waste Plan 2020 ■ Flanders In Action pact 2020 	<ul style="list-style-type: none"> ■ PRODEM²⁶⁾ ■ Ecocheque ■ Eco-dynamic enterprise label ■ Decree on waste & materials management ■ Energy Renovation Programme 2020 ■ Waste-water treatment plan ■ Cluster policy, a sixth pole 'GreenWin' (green chemistry and eco-industries) (2011) ■ Flanders's Sustainable Materials Management Programme (2011) ■ Walloon's Marshall Plan2.Green ■ Walloon's Voluntary Agreements on Energy Efficiency ■ Flemish Reform Programme (2010) 	<ul style="list-style-type: none"> ■ Grants by Flanders: MIP, Environmental and Energy Technology Innovation Platform for university-company collaborative projects ■ Clusters Walloon (2011) ■ Ghent Bio-Energy Valley ■ TWEED ■ Public Waste Agency of Flanders(OVAM) (2010) ■ IMIEU (Institute for Infrastructure, Environment and Innovation) ■ The 9th European forum on eco-innovation- Finance the eco-innovation (Nov 2010)
Sustainable Development	<ul style="list-style-type: none"> ■ Sustainable Materials Management Strategy ■ National Climate Plan 2009-2012 ■ Flemish Climate Policy Plan 2013-20 ■ Energy Efficiency Action Plan 2011-16 	<ul style="list-style-type: none"> ■ Federal research programme - Science for a Sustainable Development ■ The National Strategy for Sustainable Public Procurement (2004-2008) ■ Regional policy statement (2009-2014) ■ 4th Environmental Policy Plan (MINA-4) (2011-2015) 	<ul style="list-style-type: none"> ■ Sustainable Technology Development (STD) facility (in Flanders) ■ DuWoBo (a Flemish Transition Network for Sustainable Construction)
SMEs		<ul style="list-style-type: none"> ■ Brussels - Funding for pre-competitive development ■ Eco-efficiency Scan programme 	<ul style="list-style-type: none"> ■ Brussels Enterprise Agency (BEA) ■ Business Angels Network (BAN) ■ Wallonia/Brussels-Capital ■ Brussels-Capital - BRUSTART ■ Wallonia - FIRST Enterprise spin-out

Table 11. Belgium's Eco-innovation Supporting Environment Qualitative Research Table

Major Policies of Eco-Innovation in Belgium

- Brussels Enterprise Agency
- Flemish Public Waste Agency Federal

Overall Comments for Belgium

- Belgium's eco-innovation activities are considerable at the regional level, and are one of the distinctive features that promote eco-innovation in the country. Each local government takes its own initiative to facilitate eco-innovation activities for firms located in the area.²⁷⁾ This strategy generated more interest among firms and raised the level of participation towards environmental management.
- Belgium has successfully developed a cluster system for specific industries. Clusters in Belgium are playing a major role in activating eco-innovation activities through partnership between various stakeholders.²⁸⁾ Such synergetic effects count lead to increasingly activate commercialization of eco-innovative products and technology. Also, continuous research is being implemented in the area of renewable energy.

26) EIO, (2011), *Eco-innovation in Belgium*

Promotion and Demonstration of Environmental Technologies The project encourages SMEs to introduce environmentally friendly process technologies, by setting up demonstration tests and pilots to investigate the feasibility of selected technologies since this was found crucial for SMEs to guide them to do the right investments in cleaner technologies.

27) Wallonia: since 2000's voluntary agreement aiming at improvement of energy efficiency expanded its coverage into 13 industries. Flandre: have contracted voluntary agreement for energy consumption reduction with 180 companies by now. With spontaneous efforts from each local government, since 2000's energy consumption has been decreased annually by average 3% which is faster rate than the reduced amount of the total energy consumption

28) Representative examples are Ghent Bio-Energy Valley, TWEED, etc