

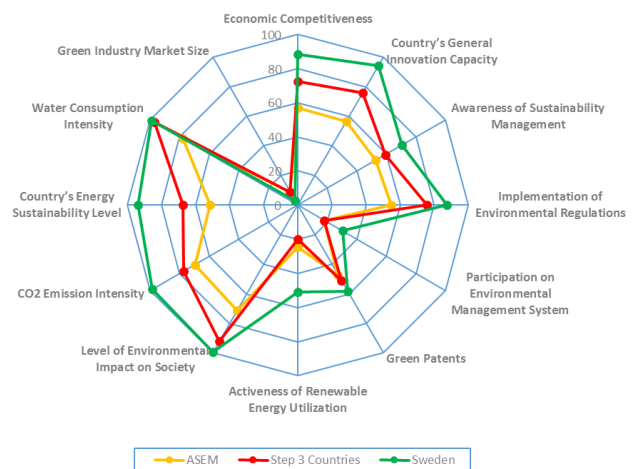


## Sweden

	48,966	9.8 million	2:33:65	0.907 Very high	6.05	5.95	
Flag	GDP per capita	Population	Industry structure (1st2nd3rd)	HDI	Sustainable social index	Sustainable env. index	Geographic location

	Score
<b>ASEI 2015</b>	<b>74.29</b>
<b>Eco-Innovation Capacity</b>	<b>84.45</b>
Economic Competitiveness	88.21
Country's General Innovation Capacity	94.48
Awareness of Sustainability Management	70.65
<b>Eco-Innovation Supporting Environment</b>	<b>87.43</b>
Implementation of Environmental Regulations	87.43
<b>Eco-Innovation Activities</b>	<b>46.47</b>
Firms' Participation on Environmental Management System	30.19
Green Patents	58.30
Activeness of Renewable Energy Utilization	50.92
<b>Eco-Innovation Performance</b>	<b>78.82</b>
Level of Environmental Impact on Society	99.42
CO <sub>2</sub> Emission Intensity	98.46
Country's Energy Sustainability Level	93.90
Water Consumption Intensity	99.06
Green Industry Market Size	3.23



- Sweden's eco-innovation capacity, supporting environment, activity and performance are high.
- Most of the ASEI indicators of Sweden are higher than the average score of the same development state countries.
- Green Industry Market Size (indicator no. 4.6) of Sweden is lower than the average score of the same development state countries.

Table 34 Eco-innovation Policy instruments of Sweden

National plan and strategy	Sustainability	
	Eco-innovation	<ul style="list-style-type: none"> <li>■ 16 Swedish Environmental Quality Objectives (1999)</li> <li>■ Integrated climate and energy policy (2009)</li> <li>■ The Environmental Technology Strategy (2011)</li> <li>■ The Strategy for Development and Export of Environmental Technology (2011-2014)</li> <li>■ Environmental technology Action Plan</li> <li>■ National Innovation Strategy for 2020 <sup>83</sup></li> <li>■ Action Plan for Swedish Cleantech (2009)</li> </ul>
Programme and actions	National	<ul style="list-style-type: none"> <li>■ five-year energy efficiency programme for 2010-2014</li> <li>■ Delegation for Sustainable Cities (2008)</li> <li>■ Nordic Cleantech</li> <li>■ National system for Green certificates in electricity production</li> <li>■ SymbioCity</li> <li>■ Swedish Environmental Code (1998)</li> </ul>
Legislation		<ul style="list-style-type: none"> <li>■ National Waste Plan (2005)</li> <li>■ A National Program for Waste Prevention (2013)</li> </ul>
Finance		<ul style="list-style-type: none"> <li>■ Innovationsbron AB<sup>84</sup></li> <li>■ VINNOVA<sup>85</sup></li> <li>■ Sustainable Technologies Fund<sup>86</sup></li> <li>■ The research and innovation bill (Bill 2008/9:50) - the government's support for eco-innovation research programmes</li> <li>■ The Swedish Environmental Protection Agency</li> <li>■ Arbetsförmedlingen</li> </ul>
Information		<ul style="list-style-type: none"> <li>■ The International Cooperation for Eco- Innovations Programme (2012)</li> <li>■ Swedish American Green Alliance (SAGA)</li> </ul>

<sup>83</sup> The Swedish Innovation Strategy, National Innovation Strategy for 2020 Government Offices of Sweden. A good innovation climate lays the foundations for more jobs, a more sustainable society with better quality of life for all inhabitants and growth throughout the country

<sup>84</sup> providing business incubation support for Swedish enterprises focusing on environmental technology

<sup>85</sup> VINNOVA <http://www.vinnova.se/en/About-VINNOVA/>

VINNOVA - Swedish Governmental Agency for Innovation Systems - is Sweden's innovation agency. Mission is to promote sustainable growth by improving the conditions for innovations, as well as funding needs-driven research. VINNOVA's vision is for Sweden to be a world-leading country in research and innovation, an attractive place in which to invest and conduct business. VINNOVA is a Swedish government agency working under the Ministry of Enterprise, Energy and Communications and acts as the national contact agency for the EU Framework Programme for R&D

<sup>86</sup> A private equity growth fund seeking investment opportunities in companies within Sustainable Technologies

		<ul style="list-style-type: none"> <li>■ SEMCo - the Swedish government's expert body on environmental and other sustainable procurement</li> <li>■ The Swedish Environmental Technology Council(SWENTEC)</li> <li>■ Swedish energy agency</li> </ul>
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Sweden chose eco-innovation as a solution to achieve the policy goals for the future generations (EIO, 2013s). Sweden established a framework<sup>87</sup> to enhance quality of environment and built the foundation for the eco-innovation policies, which address the climate change and energy<sup>88</sup>. Furthermore, Sweden established environmental technology plans and strategies were established along with strategies as well as the strategies to export them<sup>89</sup>. Sweden also simultaneously prepared a sustainable solution for both climate change and environment destruction and pursued activities to promote new businesses and employment (EIO, 2013s). Various programs for green technology development, such as increasing energy efficiency, city plans, corporate environment technology capacity development and green product certification, were also enacted<sup>90</sup>.

Sweden financially supports eco-innovation activities through venture finances<sup>91</sup>, publicly guaranteed funds<sup>92</sup>, R&D funds<sup>93</sup>, joint subsidies, and tax support<sup>94</sup>. The Swedish government has created the INNOVA<sup>95</sup> in order to facilitate international cooperation in eco-innovation programs. The purpose of this organization is to promote international research and development cooperation networks (EIO, 2013s). 'SymbioCity' is a government initiative operated by Business Sweden. Business Sweden manages the trademark of 'SymbioCity' and encourages national exports behalf of the government and industries such as the SWENTEC<sup>96</sup>. The Swedish government is working strongly committed to exporting green technology know-hows and related technologies and services (EIO, 2013s).

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<sup>87</sup> 16 Swedish Environmental Quality Objectives (1999) (EQOs)

<sup>88</sup> Integrated climate and energy policy

<sup>89</sup> The Environmental Technology Strategy (2011), The Strategy for Development and Export of Environmental Technology, Action Plan for Swedish Cleantech (2009), Action Plan for Swedish Cleantech (2009)

<sup>90</sup> five-year energy efficiency programme for 2010-2014, Innovationsbron AB. providing business incubation support for Swedish enterprises focusing on environmental technology, Nordic Cleantech, National system for Green certificates in electricity production

<sup>91</sup> Innovationsbron AB

<sup>92</sup> VINNOVA, Environment-Driven Business Development programme- for SME, Swedish energy agency

<sup>93</sup> The research and innovation bill, Swedish energy agency, The Swedish Environmental Protection Agency

<sup>94</sup> Arbetsförmedlingen

<sup>95</sup> Swedish Governmental Agency for Innovation Systems

<sup>96</sup> The Swedish Environmental Technology Council(SWENTEC)