

Copenhagen, December 8, 2009

Copenhagen — the greenest major city in Europe

Siemens publishes the first European Green City Index – Economist Intelligence Unit analyses 30 cities in 30 European countries – cities playing a leading role in climate protection

Copenhagen is the "greenest" major city in Europe, followed by Stockholm, Oslo, Vienna, and Amsterdam. This is the conclusion reached by a unique study of the environmental sustainability of 30 major cities in 30 European countries that Siemens presented during the UN Climate Change Conference in Copenhagen. In addition to analysing these cities' achievements and objectives in the area of environmental and climate protection, the European Green City Index makes the differences transparent. The study evaluates the 30 cities in eight categories: CO₂ emissions; energy; buildings; transportation; water; air quality; waste and land use; and environmental governance. "We support the cities' efforts to achieve efficient climate protection by providing them with comprehensive standardised data," said Dr. Reinhold Achatz, head of Corporate Research and Technologies, the central research unit of Siemens AG. London is ranked 11th in the study.

"Our analysis indicates that European cities are leaders in environmental performance. In particular, almost all of the 30 cities — which are home to a total of nearly 75 million inhabitants — average lower per capita CO₂ emissions than EU countries," said James Watson, managing editor at the Economist Intelligence Unit and the editor of the study. The best city in this category, Oslo, emits only 2.5 tons of CO₂ per capita and per year, far less than the EU average of 8.5 tons. What's more, almost all of the cities have already developed and partially implemented an environmental strategy. "All of the cities face formidable challenges, however. For example, renewable sources of energy currently account for only around seven percent of these cities' energy supply, which is significantly under the target of 20 percent set by the EU for 2020," said Watson. Furthermore, the average share of waste that is recycled is less than 20 percent, while one in four litres of water is wasted through leakage.

Scandinavian cities generally achieve high scores. Awareness of environmental protection in these cities has been strong for years, which is reflected in the cities' ambitious climate targets. Copenhagen, for example, aims to be carbon free by 2025. In Scandinavian countries, GDP per capita income is above average, and these wealthy countries have invested substantially in environmental protection. So far, Eastern European cities generally rank lower. This is largely due to a comparatively low gross domestic product and historic burdens, including the lack of attention paid to environmental protection in previous decades. In particular, high energy consumption in buildings and outdated infrastructures reflect this. In the area of public transportation, however, Eastern European cities often score above average: Kiev, which is ranked 30th overall, is estimated to have the highest percentage of people using public transportation to commute.

The scope of the European Green City Index is unique. The eight categories are based on 30 individual indicators — 16 of which are quantitative (e.g. consumption of water and energy per capita, recycling rate, and use of public transportation) and 14 qualitative (e.g. CO₂ reduction

1 / 3

targets, efficiency standards for buildings, and support for environmental protection measures). The Economist Intelligence Unit developed the index and wrote the report in cooperation with Siemens. "As far as possible, the research is based on data from official sources, such as municipal statistics departments and city governments," said Watson. The study also includes in-depth city portraits that reveal the strengths and weaknesses of each urban centre, while also highlighting initiatives and projects from which other cities can learn. "A key element of the study is the comparability of the results from each city — within both the individual categories and in the overall evaluation," added Watson.

Siemens UK CEO, Andreas J. Goss, says: "Ranked 11th in the Index with a score of 71.56 out of 100, the study clearly shows that London is making marked improvements in the way it tackles environmental challenges."

Rated tenth overall in the categories for energy, buildings and CO2 emissions, the city is well placed to achieve its aims to reduce emissions by 60% from their 1990 levels by 2025 and generate enough energy from renewable sources to power the equivalent of 100,000 homes by 2010. Although ranked eighth in the category for water, one of its strongest areas, London has a lower performance in transport – a trend that should be reversed with the planned upgrades to the London commuter rail network in 2010.

Mr Goss adds: "For a large city like London to perform so well is testament to the hard work that has already been done by the London authorities. The high score for London's ambition gives strong encouragement that we will see continued progress in the UK capital's drive to be green and sustainable."

Siemens is supplying the estimated 341 turbines to power London Array that when completed, will be the largest offshore wind farm in the world. The project will supply enough power for 750,000 homes – about one-quarter of the homes in Greater London – and displace 1.9 million tonnes of CO2 emissions each year.

The European Green City Index is the third Siemens study to date in the Sustainable Urban Infrastructures series — after sustainability reports on London and Munich. "With this analysis we are once again underscoring our commitment to helping cities with their climate protection measures," said Achatz. "After all, they play a key role, given that they are responsible for 80 percent of all greenhouse gas emissions and that more than half of the world's population lives in cities today." Siemens' environmental portfolio makes it an ideal partner for the implementation of climate-friendly infrastructure solutions. In fiscal year 2009 the company generated about €23 billion in revenue with the products and solutions of its environmental portfolio. That is approximately 30 percent of its total annual revenue.

To view the full study please visit: www.siemens.com/press/greencityindex

For further information please contact the Anne Keogh, Kerry Milton or Lynn Hepple in the Siemens press office: +44(0)1276 696312/338

The ranking results of the European Green City Index:

Overall		
City	Score	
1	Copenhagen	87,31
2	Stockholm	86,65
3	Oslo	83,98
4	Vienna	83,34
5	Amsterdam	83,03
6	Zurich	82,31
7	Helsinki	79,29
8	Berlin	79,01
9	Brussels	78,01
10	Paris	73,21
11	London	71,56
12	Madrid	67,08
13	Vilnius	62,77
14	Rome	62,58
15	Riga	59,57
16	Warsaw	59,04
17	Budapest	57,55
18	Lisbon	57,25
19	Ljubljana	56,39
20	Bratislava	56,09
21	Dublin	53,98
22	Athens	53,09
23	Tallinn	52,98
24	Prague	49,78
25	Istanbul	45,20
26	Zagreb	42,36
27	Belgrade	40,03
28	Bucharest	39,14
29	Sofia	36,85
30	Kiev	32,33

CO ₂		
City	Score	
1	Oslo	9,58
2	Stockholm	8,99
3	Zurich	8,48
4	Copenhagen	8,35
5	Brussels	8,32
6	Paris	7,81
7	Rome	7,57
8	Vienna	7,53
9	Madrid	7,51
10	London	7,34

Energy		
City	Score	
1	Oslo	8,71
2	Copenhagen	8,69
3	Vienna	7,76
4	Stockholm	7,61
5	Amsterdam	7,08
6	Zurich	6,92
7	Rome	6,40
8	Brussels	6,19
9	Lisbon	5,77
10	London	5,64

Buildings		
City	Score	
=1	Berlin	9,44
=1	Stockholm	9,44
3	Oslo	9,22
4	Copenhagen	9,17
5	Helsinki	9,11
6	Amsterdam	9,01
7	Paris	8,96
8	Vienna	8,62
9	Zurich	8,43
10	London	7,96

Transport		
City	Score	
1	Stockholm	8,81
2	Amsterdam	8,44
3	Copenhagen	8,29
4	Vienna	8,00
5	Oslo	7,92
6	Zurich	7,83
7	Brussels	7,49
8	Bratislava	7,16
9	Helsinki	7,08
=10	Budapest	6,64
=10	Tallinn	6,64

Water		
City	Score	
1	Amsterdam	9,21
2	Vienna	9,13
3	Berlin	9,12
4	Brussels	9,05
=5	Copenhagen	8,88
=5	Zurich	8,88
7	Madrid	8,59
8	London	8,58
9	Paris	8,55
10	Prague	8,39

Waste and land use		
City	Score	
1	Amsterdam	8,98
2	Zurich	8,82
3	Helsinki	8,69
4	Berlin	8,63
5	Vienna	8,60
6	Oslo	8,23
7	Copenhagen	8,05
8	Stockholm	7,99
9	Vilnius	7,31
10	Brussels	7,26

Air quality		
City	Score	
1	Vilnius	9,37
2	Stockholm	9,35
3	Helsinki	8,84
4	Dublin	8,62
5	Copenhagen	8,43
6	Tallinn	8,30
7	Riga	8,28
8	Berlin	7,86
9	Zurich	7,70
10	Vienna	7,59

Environmental governance		
City	Score	
=1	Brussels	10,00
=1	Copenhagen	10,00
=1	Helsinki	10,00
=1	Stockholm	10,00
=5	Oslo	9,67
=5	Warsaw	9,67
=7	Paris	9,44
=7	Vienna	9,44
9	Berlin	9,33
10	Amsterdam	9,11