

Sustainable Cities for Climate Action

As urban population growth serves to both intensify and increase vulnerability to climate change impacts, cities play a crucial role in taking the low carbon action required to achieve the intended nationally determined contributions (INDCs) that will form the basis of a COP21 agreement...

"In our work with liveable cities development in areas as diverse as the Middle East, Europe and the Arctic, we have identified five driving forces of modern society development: social coherence, economic growth, environmental sustainability, good governance and urban planning."

Henrik Rosenberg Seiding, Executive Director, Ramboll Management Consulting

The Challenge...

\$53 trillion of city level investment in energy and efficiency is needed by 2035 to remain on track towards a 2 degree world

Cities are responsible for consuming 78% of all energy globally

Average global flood losses could increase to \$52 billion by 2050

78%

Cities produce more than 60% of all carbon emissions

By 2025 cities will create enough solid waste to fill a line of rubbish trucks 5000 km long each day

The World Bank estimates that only 4% of the 500 largest cities in developing countries are deemed creditworthy in international financial markets

Putting Solutions into Practice...

Renewable Energy



Vancouver City
plans to utilise 100% renewable energy sources by 2050



Fechenheim
power station in Frankfurt is powered by waste biomass, delivering electricity to 20,000 households



Seoul
has invested \$43 million dollars in installing solar PV panels on 285 public buildings



Goteborg
aims to develop 1TWh of sustainable biogas to supply 100,000 automobiles by 2020

Mobility

London

plans to install 6,000 charging points and 3,000 battery-powered cars by 2018

Beijing

Public Transportation Group utilises 1272 electric buses

BMW's i3

electric vehicle consumes 124 miles per gallon gasoline equivalent, making it the most efficient vehicle available in the US

Houten

in Germany is home to 80 miles of cycle lanes, with an estimated 66% of all trips made by foot or bicycle

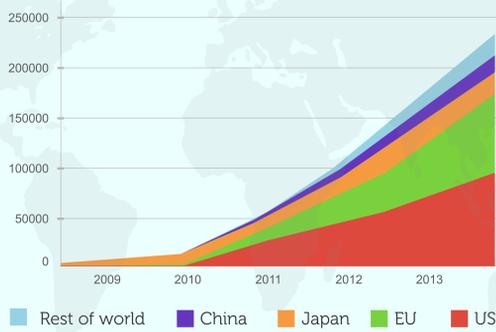
In Paris

car sharing is used by 220,000 drivers, taking approximately 31,000 cars off the road

In New York

82% of employed Manhattanites travel to work by public transport, bicycle, or on foot- 10 times the rate for Americans in general

Global sales of electric passenger cars is on the rise...



Finance

Gothenburg and Johannesburg have issued \$489 million worth of green bonds

The €265 million European Energy Efficiency Fund (EEEF) supports public authorities in improving energy efficiency

40% of the £28 billion investment made by development banks in 2014 was in infrastructure, energy and the built environment

Between 2000 and 2013, the EU invested €10.7 billion in public urban transport projects

Systemic Efficiency

London plans to switch 25% of its power generation to more efficient, local sources by 2017

\$1 trillion could be added to the global economy by 2025 if cities switched to a circular economy model

2.4 million Danfoss frequency converters are installed worldwide, saving 26 million tonnes of CO2

Shanghai plans to invest \$16.3 billion over the next 3 years into 220 anti-pollution projects

The most promising opportunities for reducing carbon emissions according to 282 US Mayors...

