

Norman Foster

Prominent Architect Norman Foster
practices Green Architecture



Norman Foster

Norman Foster is one of Britain's most prolific architects of his generation whose company maintains an international design practice, [Foster + Partners](#)

History + Background

born June 1 1935

Foster submitted a portfolio and winning a place at the [University of Manchester School of Architecture](#).

He then won a scholarship to [study at the Yale School of Architecture](#) in the United States of America.

After returning to the UK in 1963, Foster set up his own practice, Team 4, which later became [Foster + Partners](#).

Awards

1998 & 2004 Stirling Prize [[American Air Museum](#) at the Imperial War Museum & [30 St Mary Axe](#)]

1999 Pritzker Architecture Prize

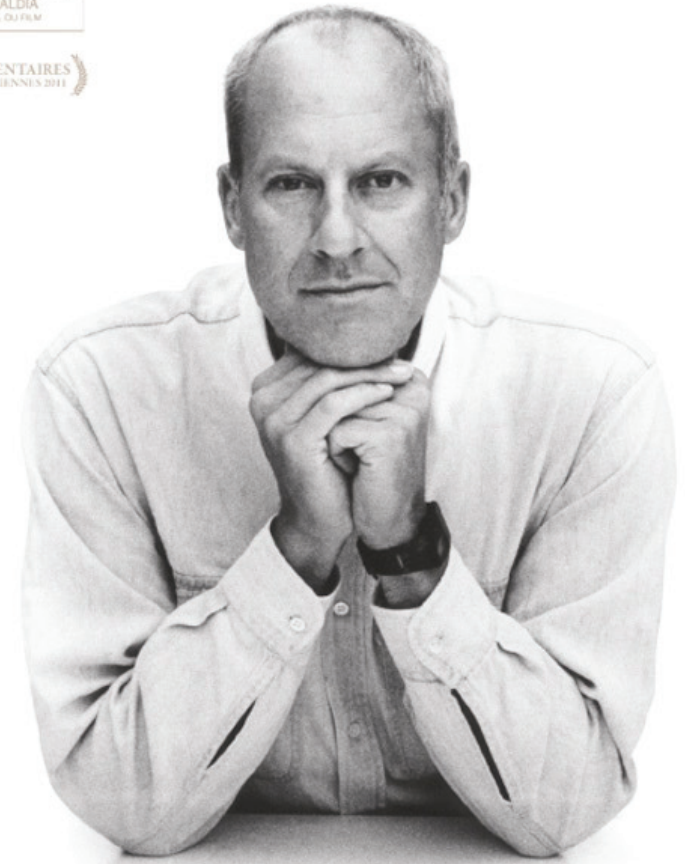
Minerva Medal

2009 Prince of Asturias Award

1994 AIA Gold Medal

2007 Lynn S. Beedle Lifetime Achievement Award

Aga Khan Award for Architecture [[University of Technology Petronas](#) in Malaysia]



HOW MUCH DOES YOUR BUILDING WEIGH.
MR. FOSTER?

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design philosophy

Foster + Partners has had **sustainability as a central theme** for more than 40 years.

To remain at the forefront of sustainable advancements, their research and development group includes a **multi-disciplinary sustainability forum** and dedicated sustainability coordinator.

They consider **sustainable performance holistically**: from the **embodied energy** of materials to life-time energy performance.

In many of their projects, they have pioneered renewable energy solutions, which have offered **dramatic reductions in pollution and carbon emissions**.

Working with industry, they have created a new generation of super-efficient **wind turbines** and **new forms of cladding systems** that can harvest solar energy.



"The principles of **sustainability** are integral to our work: designing buildings that run at a **fraction of current energy requirements**, or urban quarters that can support thriving communities, improving the quality of life in a city for all."

[note] BREEAM : Building Research Establishment Environmental Assessment Method is widely used in the UK to assess new and existing building types

30 St. Mary Axe [the Gherkin]

London, UK 2001-2005

Features

40 Story building has a dramatic **sculptural form** and dominates the skyline.

A key feature of the buildings internal organization is a set of spiralling **light-wells** that wind around the building and cut across the simple circular plan that provides a perimeter of six office 'fingers' around the central core.

It is described as '**environmentally progressive**', the lightwells allowing **light to penetrate and ventilate the offices**, thus reducing air conditioning loads

The glazing allows **full perimeter views**; the tapering geometry reduces reflections and wind disturbances at ground level

Despite a few post occupancy issues, the completion of the Gherkin immediately established it as a **major London landmark**.



Scottish Gas Headquarters

Edinburgh, UK 2001-2003

BREEAM: Excellent

Area: 10 568 m²

Capacity: 1150

Features

The building's glazed facade is surrounded with a natural silver-anodised 'brise-soleil', which forms a rectangular veil over the U-shaped building footprint.

It has been designed to take into consideration the **low angle sun that is common in Scotland during the winter months**.

An optimised combination of horizontal oval tubular fixed **external 'brise soleil' shading** and **high performance glazing** achieves an ideal balance between natural light penetration and solar protection.

Internally, **solar control/anti-glare blinds** have been installed under tenant fit-out.

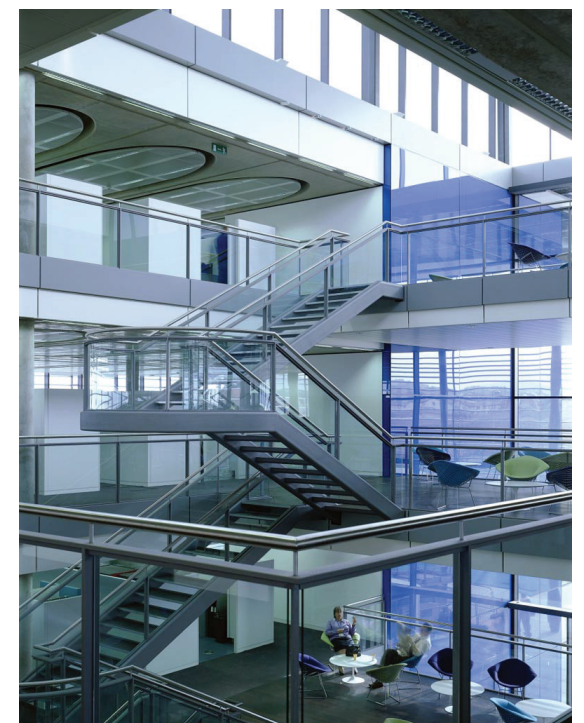
Beyond the entrance is an atrium whose high roof is covered with a lantern of white glass, through which **diffused daylight fills the space**.

40% of the floor area is within 7.5 meters of a window and natural light (at a daylight factor between 2% to 5%).

Awards

Scottish Design Award – Commercial Interior, Scottish Gas HQ, Edinburgh

British Council for Offices Award – Winner: National and Scotland, Commercial Workplace category, Scottish Gas HQ, Edinburgh



Bishop Square Development

London, UK 2001-2005

Area: 101 521 m²

Height: 54 m

BREEAM: Very Good

Features

The office building incorporates the **largest commercial photovoltaic installation in Europe**.

It **produces enough energy to power the landscape lighting across the site**, or to make over 2 million pieces of toast or over 3 million cups of tea.

It saves over **23 tonnes of CO2 emissions**, which is equivalent to 1.6 million party balloons or 14 Olympic swimming pools.

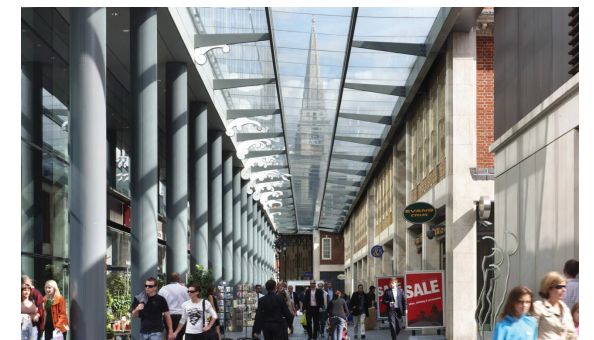
Electricity generation 54,000kWh/yr

Awards

London Planning Award 'Best New Public Space' – Bishop's Square Development at Spitalfields

Regeneration Awards – Winner Best Commercial-led Regeneration Project, Bishops Square, Spitalfields, London

London Planning Awards – Best Built Project Contributing to London's Future, Joint Winner, Bishops Square, Spitalfields, London



The Hearst Tower

New York, USA 2000-2006

Area: 79 500 m²

Height: 182 m

Capacity: 2200

Features

The Hearst Tower is the first “green” high rise office building completed in New York City

The floor of the atrium is paved with [heat conductive limestone](#)

[Polyethylene tubing](#) is embedded under the floor and filled with circulating water for cooling in the summer and heating in the winter

Rain collected on the roof is stored in the a cistern in the basement and is used in the [cooling system](#)

[26% less energy](#) than minimum New York requirements is used
85% of the buildings structural steel contains [recycled materials](#)

Awards

LEED GOLD (New Construction)

LEED Platium (BO+M)

Green Building Competition for New York City, Honourable Mention – Hearst Tower

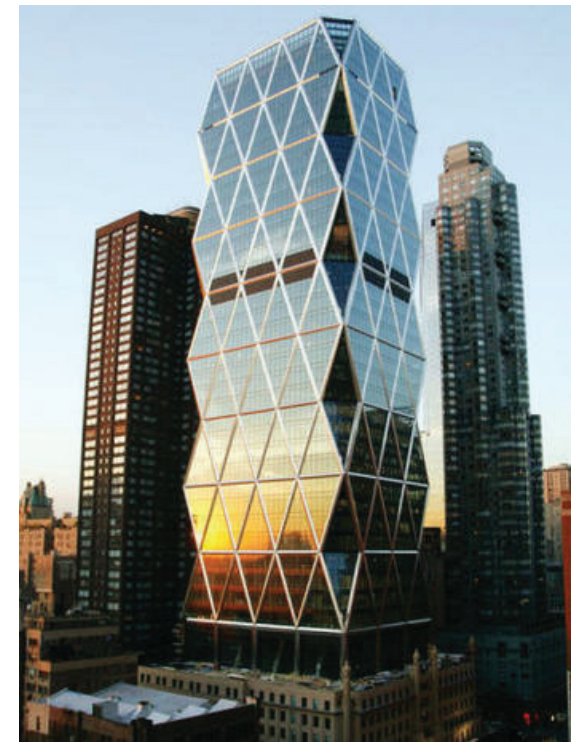
Council on Tall Buildings and Urban Habitat (CTBUH) Best Sustainable Building Award – Hearst Tower, New York

Business Week/Architectural Record Citation for Excellence – Hearst Tower interior, New York

New York City MAsTerwork Awards – Best New Building, Hearst Tower

AIA New York Design Honor Award in the Architecture category – Hearst Tower, New York

Global Green USA Green Building Design Award – Hearst Tower, New York





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Norman Foster is a leader in sustainability in the UK and internationally. He has created a firm that applies sustainable practices to improve the quality of life and the environment.