

# JOHNSON CONTROLS HQ ASIA PACIFIC

Shanghai, China | Final EDGE Certification | June 2017

Owner: Johnson Controls



Designed by global architectural firm Gensler, the Shanghai headquarters of Johnson Controls is a five-story campus with an automatic internal shading system and insulation technologies to manage indoor temperatures, a rainwater harvesting system covering 50% of the building's green rooftop, and a solar hot water system, among other sustainable design features.

Johnson Controls is a diversified technology and industrial leader serving customers in more than 150 countries. The corporation's 130,000 employees deliver quality products, services and solutions to optimize the performance of buildings, as well as advanced batteries, components and systems for automobiles. As a symbol of what is possible to achieve in China and the region, Johnson Controls has received LEED Platinum certification in addition to final EDGE certification, which has been awarded by GBCI.

**Size**  
44,934 m<sup>2</sup>



## 45% ENERGY SAVINGS

Reduced window to wall ratio, insulation of roof and external walls, higher thermal performance glass, energy-efficient air conditioning with water-cooled chiller, variable frequency drives in AHUS, variable speed drives pumps, sensible heat recovery from exhaust air, high efficiency condensing boiler for space heating, air economizers during favorable outdoor conditions, energy-saving lighting system, lighting controls for corridors and staircases, occupancy sensors, daylight photoelectric sensors for internal spaces and solar photovoltaics are projected to save 45 percent of the energy that a conventional office building would require.

**People Impacted**  
2,303



## 42% WATER SAVINGS

Low-flow plumbing fixtures and dual-flush water closets, rainwater harvesting system and a grey water treatment and recycling system help reduce water waste and lower utility bills.

**CO<sub>2</sub> Savings**  
1,069 tCO<sub>2</sub>/Year



## 21% LESS EMBODIED ENERGY IN MATERIALS

In-situ concrete with pulverized fly ash for floor slabs and roof construction, aluminum profile cladding for external walls, nylon carpets and stone slabs for flooring, mineral wool wall insulation and polystyrene roof insulation help reduce this project's impact on the environment.



EDGE, an innovation of International Finance Corporation (IFC), is a green building certification system focused on making buildings more resource-efficient. It empowers developers to quickly identify the most cost-effective ways to reduce their building's energy use, water use and embodied energy in materials. Green Business Certification Inc. (GBCI) administers EDGE certification in over 140 countries around the world and is the exclusive certification provider for all EDGE buildings in India. Learn more at [edge.gbci.org](http://edge.gbci.org).