

## SUCCESS STORY

## MARACANÃ STADIUM

Rio de Janeiro, Brazil



## INSTALLATION

Project	Maracanã Stadium
Partners	Light ESCO, EDF Consultoria, the State of Rio de Janeiro, Schlaich Bergermann und Partner
Location	Rio de Janeiro, Brazil
Size	390 kW
Module Type	YGE 60 Cell Series
Connected	June 2013
Installers	Light ESCO, EDF Consultoria
Mounting Area	2,380 m <sup>2</sup>
Stadium Capacity	78,838 seats

## TECHNICAL SPECIFICATIONS

Rated System Power	390 kWp
Number of Modules	1,556
Number of Average Homes Powered	240
CO <sub>2</sub> -savings approx.	2,560 metric tons

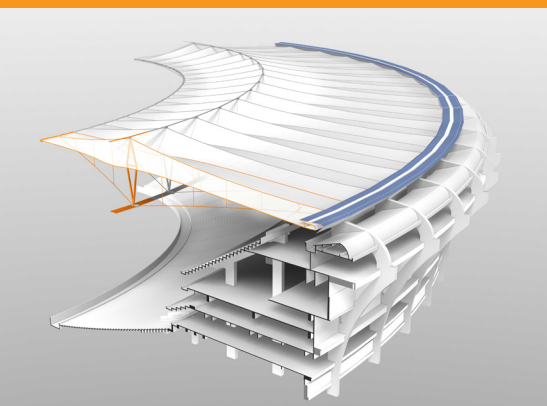
## POWERING BRAZIL'S MOST ICONIC FOOTBALL STADIUM

Since the FIFA World Cup™ in 1950, Maracanã Stadium has been renowned as one of football's most iconic venues. Thanks to recent renovations, the stadium may now become as famous for its sustainability as for its rich football history. As part of FIFA and Yingli Green Energy's mission to produce the greenest FIFA Confederations Cup and FIFA World Cup™ tournaments in history, Yingli partnered with Light ESCO, EDF Consultoria, Schlaich Bergermann und Partner, and the State of Rio de Janeiro to install more than 1,500 Yingli Solar panels on the roof of the stadium. The solar project will produce enough electricity to power 240 homes annually, preventing the release of more than 2,560 tons of carbon dioxide into the atmosphere each year. Yingli's partners overcame the architectural challenges posed by the stadium's canvas roof by mounting the solar panels on a metal ring encircling the top of the stadium. The prominent placement of the panels will bring green energy to the global stage during the football competitions, helping to raise environmental awareness among football fans worldwide.

Yingli Solar is committed to helping make the 2014 FIFA World Cup™ in Brazil the greenest football tournament in history.

“Sustainability is one of the key tenants in our vision for the 2014 FIFA World Cup™. We hope this landmark project will be the catalyst to spur other football stadiums that may install solar PV systems across Brazil, serving to increase the production and use of renewable power in the country.”

— Frederico Addiechi,  
Head of Corporate Social Responsibility of FIFA



Top Left: The panels are mounted on a metal ring that encircles Maracanã Stadium's canvas roof.

Bottom Left: This rendering shows how the roof of the stadium was engineered to accommodate solar.

Right: The first panel was installed at Maracanã Stadium in April 2013.

Rendering and photos above courtesy of Schlaich Bergemann und Partner. Rendering on reverse page courtesy of EDF Consultoria.



## DETAILS ABOUT THE STADIUM

- Maracanã Stadium's 1,556 solar panels are mounted on an 183-ton metal ring encircling the stadium's roof. The ring provided about 2,380 m<sup>2</sup> of usable space to mount the solar panels.
- The State of Rio de Janeiro plans to build more solar projects at the Maracanã facility, including at the University of Rio de Janeiro at Maracanã (UERJ) and Maracanãzinho Gymnasium.
- Maracanã Stadium is being remodeled as an eco-friendly venue prior to the 2013 FIFA Confederations Cup and 2014 FIFA World Cup™.
- When Maracanã Stadium was built for the FIFA World Cup™ in 1950, it hosted 200,000+ fans and became the world's largest stadium by capacity.
- Maracanã is South America's largest stadium, now with seating for 78,838 spectators.