



NRG Stadium Case Study

Project Owners
NRG Stadium

Project Location
Houston, Texas

Project Architect
DLR Group

General Contractor
Core Construction

Solar Installer
NRG Energy

PROJECT OVERVIEW

NRG worked with DLR Group to design an iconic solar canopy for the main entrance to the NRG Stadium and the Houston Texans.

The goal of the project was to build a dramatic, yet highly functional solar canopy to shelter the main entrance of the stadium, demonstrating NRG's strong commitment to renewable energy.



THE PROBLEM

DLR's came to Lumos at the inception of the project with a conceptual design for a long, narrow canopy curved in both the long and short axes, creating a compound curved roof. In addition, the architects at DLR had a very specific target for the amount of light they wanted passing through the canopy as well as requiring that the canopy be weatherproof.



THE SOLUTION

Lumos worked with DLR Groups architect and engineers to refine their structural design to accomodate custom sized LSX Rail to be installed in segments along the axis of the curve to be able to approximate the curves in both the X and Y axis as closely as possible using a flat glass panel.



In order to meet the light transmittance target and weatherproof requirements, Lumos provided clear laminates in the same form factor as the LSX Module, providing the additional daylighting required and allowing the entire array to be easily weatherproofed.

