



HOUSTON MUSEUM OF NATURAL SCIENCE: ENERGY CITY EXHIBIT

Case Study

Lightware Visual Engineering

Market	Country
Digital signage	USA

Lightware Equipment Used in Project

MX-FR33R matrix switcher and Lightware 110-series DVI Fiber Receiver

The Houston Museum of Natural Science is fusing interactive experiences, rides and some hardcore science in a revamped exhibit to teach visitors about the importance of energy to Houston.

When it reopens next month, the Wiess Energy Hall 3.0 at the Houston Museum of Natural Science will more than triple in size, offering guests an immersive, scientific experience.

Energy City is a 2,500-square-foot 3D landscape that represents Houston, the surrounding Gulf coastal waters, and the terrain of southeast and central Texas. Images on a vibrant 1/150th-scale white model are created using bleeding-edge projection-mapping technology via Green Hippo Hippotizer media servers to illustrate the energy value chain with dynamic animation as the entire tableau cycles from day to night.

Upon entering Energy City, visitors step into a 2,500-square-foot 3-D representation of Houston, the Gulf and other parts of southeast and central Texas. The exhibit, which is powered by projections, highlights the Eagle Ford Shale, oil refining, liquefied natural gas terminals, nuclear plants, wind farms, power plants and solar thermal energy.

Next, the Eagle Ford Shale Experience takes visitors deep into the borehole of an oil well.

Finally, Geovator transports museum guests back in time to the Cretaceous Period to witness a meteor strike first-hand before popping back up to the surface for a surprising conclusion.

Lightware equipment used in the project:

Lightware MX-FR80R Modular Router Frame, configured as:
64 DVI Inputs; 16 HDMI Inputs; 40 Fiber DVI Outputs; 40 HDMI Outputs

32 Lightware 110-series DVI Fiber Receiver

Source:

<http://abc13.com/science/energy-city-how-the-oil-industry-powers-houston/2494917/>

<http://www.livedesignonline.com/installations/energy-city-features-cutting-edge-projection-mapping>

<http://www.hmns.org/exhibits/permanent-exhibitions/energy-hall/>

