

CASE STUDY: The Hall of the States, Washington, D.C.

An elegant solution to high cooling costs



SITUATION: The Hall of the States is a private office complex located in downtown Washington DC between the Capitol and Union Station. The elegant H-shaped building contains the Washington offices of many state governors, national broadcasters, and other esteemed associations. However, the building's impressive exterior windows left its interior office space simmering in summer heat—or high energy costs, resulting from the building's heavy use of air conditioning.

SOLUTION: While the building's management knew they had to keep the building cool, they were struggling mightily to contain its excessive energy costs. That's when they turned to LLumar. After consultation with the local dealer, the Hall of the States opted to install LLumar R-20 Silver Window Film, fitted on the inside of the building's handsome green window glass.

RESULTS: Only after the LLumar R-20 Silver Window Film installed did the owners realize how much it would enhance the beauty of the building by helping to create a mirrored green façade. Most importantly, the film rejected 79% of the solar energy that impacted upon the glass. The elegant building's energy bills are now significantly lower.

Building
The Hall of the States
Location
Washington, DC
Film
RK-20 PS (Silver)
Type
Solar Control Film

“The Hall of the States now enjoys a 79% reduction in solar energy.”

Performance Data

Exterior Series

Exterior Series products are applied to the exterior facing glazing and are highly reflective to provide excellent heat rejection performance without affecting interior reflectance.

	% Total Solar Transmittance	% Total Solar Reflectance	% Total Solar Absorptance	% Visible Light Transmittance	% Visible Reflectance (exterior)	% Visible Reflectance (interior)	Winter Merit U-Value	Shading Coefficient	% Ultraviolet Reflected	Emissivity	Solar Heat Gain Coefficient	% Total Solar Energy Rejected	Light-to-Solar Heat Gain Ratio	% Summer Solar Heat Gain Reduction	% Winter Heat Loss Reduction	% Glare Reduction
RK-20 PS (Silver)	10	67	23	15	67	62	1.04	0.20	99	0.71	0.17	83	0.88	80	-1	83