

## Airport Sustainability team Uses Autocase to Help Bolster the Business Case for Dynamic Glazing



### Project Description

The DFW Environmental Affairs department was interested in evaluating whether the replacement of their existing baseline low-e glass with dynamic glazing was feasible for their 5 current terminals and their newly proposed terminal.

The team needed to make a convincing case to the capital team to request budget on the project.

### Strategies Assessed



Electricity use



Natural gas



Upfront costs



Passenger productivity

#### PARTNERS

Dallas Fort Worth Airport  
(DFW)

#### DESIGN PHASE

Design Development

#### BUILDING TYPE

Airport Terminal

#### SIZE




13,500 sq ft of Glass

#### LOCATION

Dallas Fort Worth, Texas

## How Autocase was Used

The Environmental Affairs team inserted quoted costing for the dynamic glazing and current energy usage and pricing for the 6 terminals into Autocase. Enhanced thermal comfort was assumed from dynamic glazing and passenger information was provided allowing the Autocase economic support team to assess passenger productivity.

	Feature	Low grade e-glass	Dynamic glazing
	Incremental Cost	N/A	\$12,000,000
	Terminal Electricity Use	61,500,000 kWh	5.3% in Thermal Electricity Savings
	Natural Gas Usage	13,000 MMBtu	5.3% in Natural Gas Savings
<b>Note:</b> Passenger information and thermal comfort was provided for passenger productivity			

## The Outcome

Autocase showed large upfront investments in dynamic glazing never actually paid back financially over the lifetime of the project for all terminals.

The triple bottom line feasibility study supported the case for their most energy intensive terminal and capital was approved for dynamic glazing project for that terminal.

**Triple Bottom Line Value = \$16.6m**

Financial	-\$5,916,800
Social	\$7,115,000
Environmental	\$15,404,000

## Want to learn more?

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[autocase.com](http://autocase.com)