

## **Energy Solutions Symposium: Reducing Fuel Costs in Student Transportation**



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## **What are the possibilities in student transportation?**

Year	Miles Traveled	Gallons
04-05	187,147,178	26,779,967
05-06	184,776,585	26,391,526
	LEA Buses	Contracted Buses
04-05	12,890	1,276
05-06	12,500	1,350

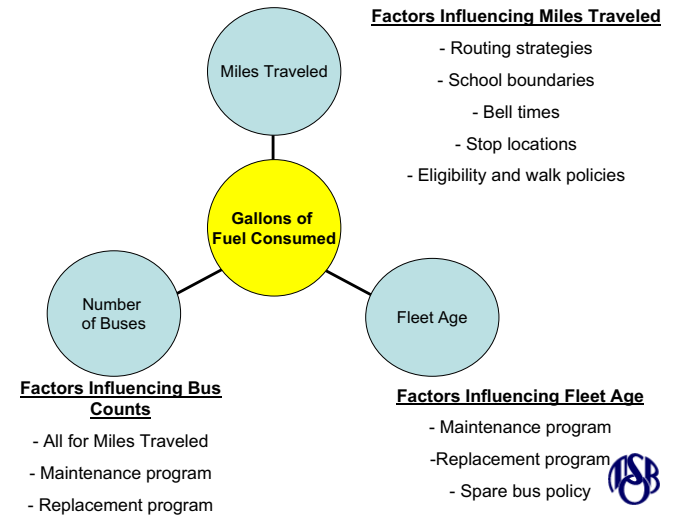


## Measuring Consumption

- Total gallons pumped
- Total miles traveled
- Total engine hours
- Total buses used
- Miles per gallon
- Gallons per hour



## Thinking about consumption



## Evaluating Your Options

### Non-Cost Options

- Measure
- Idling policy
- Routing strategies
- Stop consolidation
- Driver training
- School boundaries

### Cost Options

- Routing Software
- GPS
- Fleet replacement



## Case Studies

- Inkster Public Schools
- Livingston ESA
- SAD 47, Oakland ME
- Town of Islip, NY
- Sarasota County, FL



## **Inkster Public Schools & Livingston ESA**

- 25 buses; 1,600 students; 4 schools
- 54 buses; transport more than 500 special needs students
- Both relatively recent implementations with expectations of safety and efficiency benefits



## **School Administrative Division 47**

- Oakland, ME – rural and lack of density
- 33 buses; 1,700
- Implemented new routing software at cost of \$19,000
- Reduced miles by 22,000 savings \$50,000 annually



## Town of Islip, NY

- Installed GPS on all Public Works vehicles
- Reduced 14,000 fuel gallons in three months
- Savings of approximately \$40,000 per year



## Sarasota County Schools, Florida

- 1,000 individual routes; and over 9,000 stops; transport over 24,000 students
- Transport to fifty two schools; 252 buses; travel approximately 5 million miles a year
- Implemented GPS solution saving nearly \$1 million

