



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
AIR AND RADIATION

January 11, 2008

Mr. Bruce Bremer
Toyota Motor Engineering &
Manufacturing North America
37 Atlantic Ave
Erlanger, KY 41018

Dear Mr. Bremer:

Congratulations! The U.S. Environmental Protection Agency awards the **Toyota Motor Engineering & Manufacturing TMMK Plant 1** with the 2007 ENERGY STAR. The ENERGY STAR is the distinguishing mark of energy performance, and, for manufacturing plants in the United States, highlights your plant's status within the top quartile of auto assembly plants in the nation. Receiving the ENERGY STAR is a testament to the compatibility of improving our environment while enhancing the corporate bottom line.

To recognize this achievement, the Environmental Protection Agency is providing your corporation with a bronze plaque dated for 2007, certificate of achievement, and graphic file which may be used to produce a banner or flag for the plant. Each is enclosed for announcing the news of this achievement, demonstrating environmental leadership and enabling others to recognize it. Also enclosed are instructions for use of the graphic.

Thank you for your contribution in protecting the environment. We hope you will display the ENERGY STAR proudly. As you continue to operate this plant energy-efficiently, EPA will look forward to receiving your application for the ENERGY STAR next year!

Sincerely,

A handwritten signature in cursive script that reads "Jean Lupinacci".

Jean Lupinacci
Director, Commercial and Industrial Branch
ENERGY STAR

Enclosures



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Erlanger, Kentucky 41018

Dear Mr. Bremer:

Congratulations! The U.S. Environmental Protection Agency awards the **Toyota Motor Engineering & Manufacturing TMMK Plant 2** with the 2007 ENERGY STAR. The ENERGY STAR is the distinguishing mark of energy performance, and, for manufacturing plants in the United States, highlights your plant's status within the top quartile of auto assembly plants in the nation. Receiving the ENERGY STAR is a testament to the compatibility of improving our environment while enhancing the corporate bottom line.

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January 11, 2008

OFFICE OF
AIR AND RADIATION

Mr. Seiichi Sudo
President & Chief Executive Officer
Toyota Engineering & Manufacturing
North America, Inc.
25 Atlantic Avenue
Erlanger, Kentucky 41018

Dear Mr. Sudo:

I am pleased to inform you that the Toyota Engineering & Manufacturing North America, Inc. TMMK Plant 1 in Georgetown, Kentucky has been awarded the 2007 ENERGY STAR[®] by the U.S. Environmental Protection Agency for superior energy performance. The ENERGY STAR is the distinguishing mark of energy efficiency for auto assembly plants in the United States and identifies this plant's status among the most energy-efficient based on its performance in EPA's National Energy Performance Rating System.

The employees at the TMMK Plant 1 and your corporate energy director, Mr. Bruce Bremer, should be commended for their ability to reduce energy use and protect the environment through energy efficiency. Strong energy performance in a corporation starts at the top, and your commitment and support can help Toyota Engineering & Manufacturing North America, Inc. reach new levels of achievement.

We look forward to receiving applications for the ENERGY STAR for other Toyota Engineering & Manufacturing North America, Inc. plants in the future.

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cc: Mr. Bruce Bremer



Energy Performance Indicator Tool for Automobile Assembly Plants

12/18/07

[Back](#)

Plant Characteristics

		Current	Reference
SIC Code: 3711 (Motor Vehicle Assembly)		TMMK-1	
Zip Code: 40324		Select Year: 2007	2004
Location: Lexington, KY		Production (# of vehicles): 263,770	
36 Year HDD: 4,783		Line speed (vehicles per hour): 77.5	
30 Year CDD: 1,140		Capacity (# of vehicles): 264,740	0
Notes: www.weatherunderground.com From 12/06 to 11/07		% Utilization (production/capacity): 100%	#DIV/0!
Wheelbase of the largest vehicle produced (inches):		HDE: 4,218	
Is the plant air-tempered?		CDE: 1,593	
		111.0	
		yes	

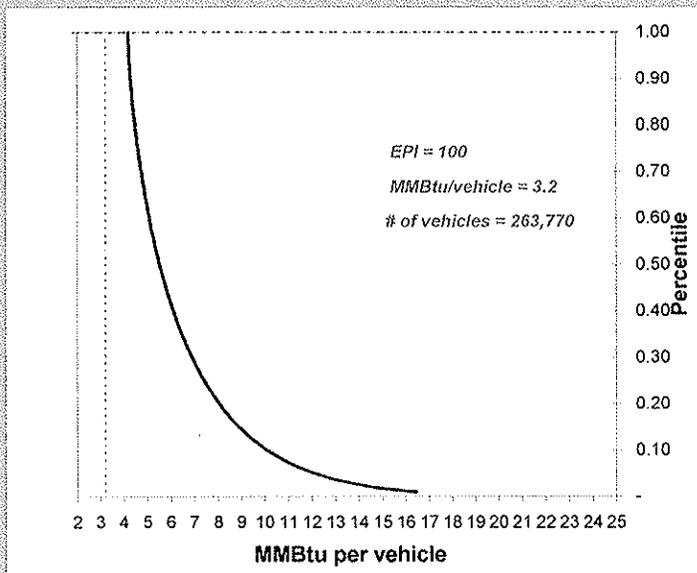
Energy Consumption

Select Unit	Electricity	Gas	Distillate Oil	Residual Oil	Coal	Other
TMMK-1 (2007)	Annual Purchased: 112,726	458,473				
	Annual Cost (\$): 3,269,054	1,821,392				
0 (2004)	Annual Purchased:					
	Annual Cost (\$):					

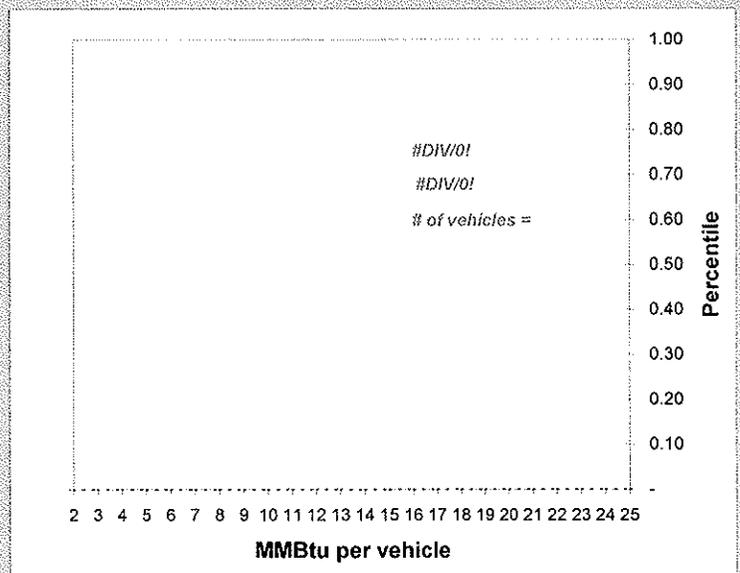
Total Site Energy Results

	Current TMMK-1 (2007)	Reference 0 (2004)	Average TMMK-1 (2007)	Efficient TMMK-1 (2007)
Electric				
Fuels				
EPI	100	#DIV/0!	50	75
Annual Energy Cost (\$/year)	\$5,090,446	\$0	\$8,041,288	\$7,012,054
Number of Vehicles	263,770	0	263,770	263,770
\$ Energy/vehicle	19.30	#DIV/0!	30.49	26.58
Energy Output Ratio (MMBtu/vehicle)	3.20	#DIV/0!	5.53	4.61

Current: TMMK-1 (2007)



Reference: (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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Electricity Only Results

[EPI Tool](#)

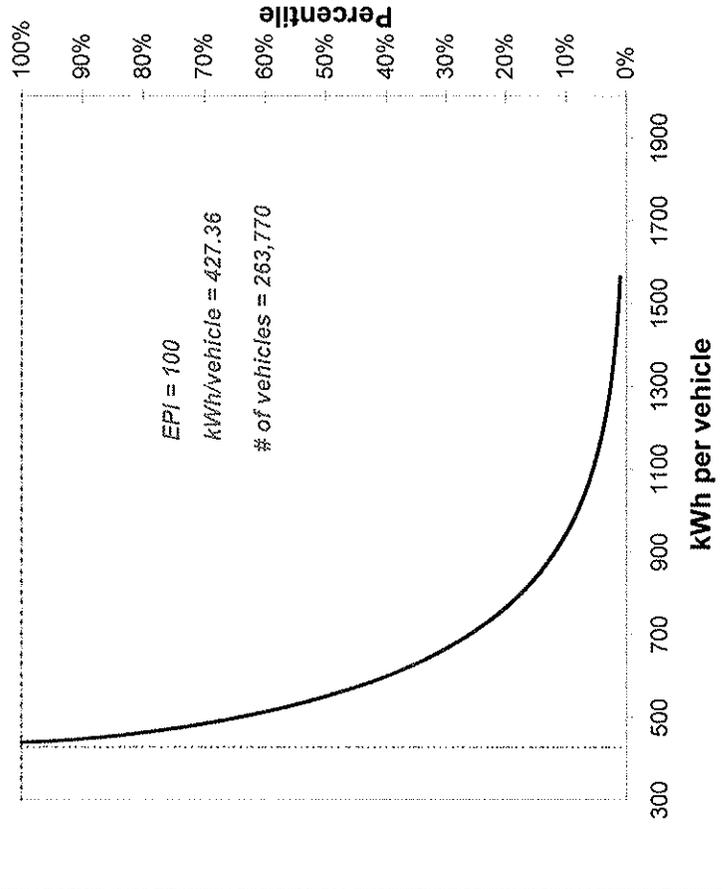
[Fuels](#)

	TMMK-1 (2007)	100
Annual Electricity Cost (\$/year)	\$3,269,054	
Number of Vehicles	263,770	
\$ Electricity/vehicle	12.39	
Energy Output Ratio (kWh/vehicle)	427.36	

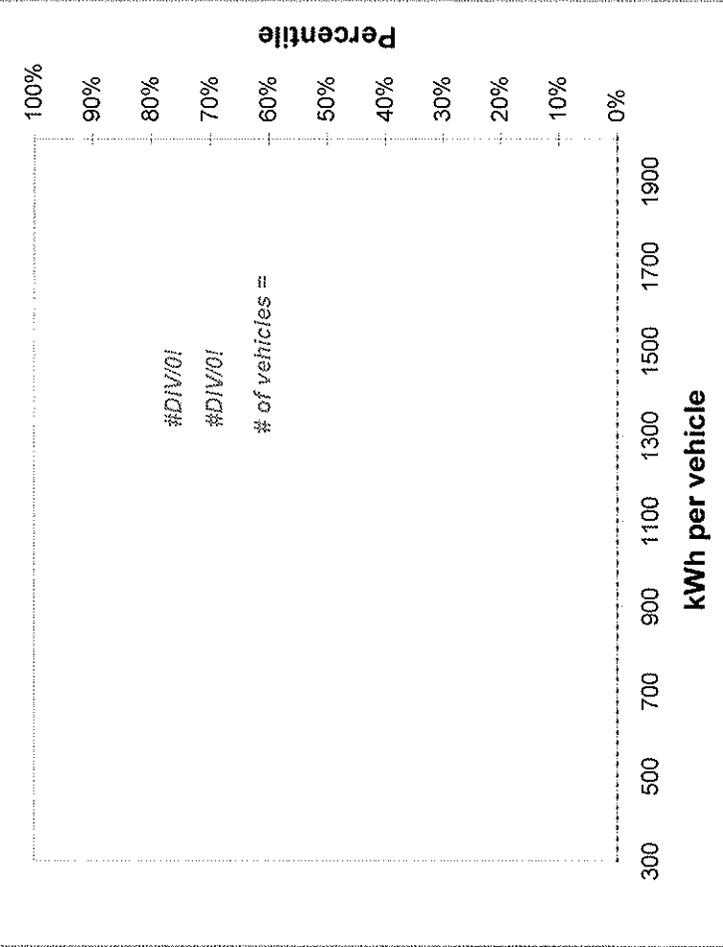
	0	50	75
(2004)	\$0	\$4,222,118	\$3,622,601
#DIV/0!	0	263,770	263,770
#DIV/0!	#DIV/0!	16.01	13.73
#DIV/0!	#DIV/0!	551.96	473.58

	Average TMMK-1 (2007)	Efficient TMMK-1 (2007)
	50	75
	\$4,222,118	\$3,622,601
	263,770	263,770
	16.01	13.73
	551.96	473.58

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

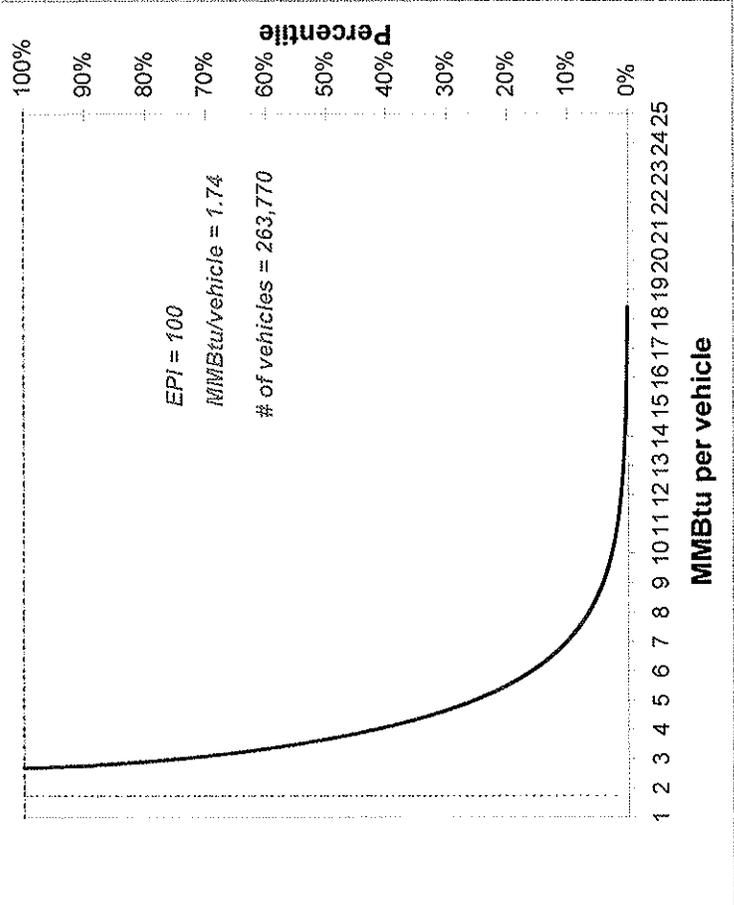
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Non-Electric Fuels Results

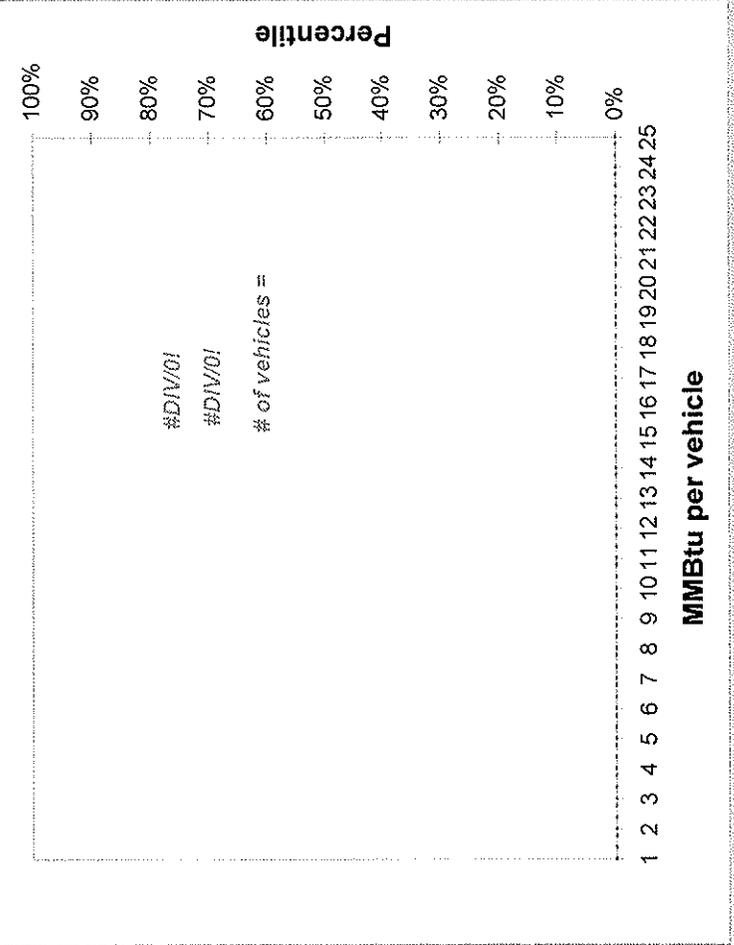
[EPI Tool](#) [Electric](#)

TMMK-1 (2007)	100	TMMK-1 (2007)	50	Efficient TMMK-1 (2007)	75
Annual Fuel Cost (\$/Year)	\$1,821,392	Annual Fuel Cost (\$/Year)	\$3,867,329		\$3,152,145
Number of Vehicles	263,770	Number of Vehicles	263,770		263,770
\$ Fuel/vehicle	6.91	\$ Fuel/vehicle	14.66		11.95
Fuel Output Ratio (MMBtu/vehicle)	1.74	Fuel Output Ratio (MMBtu/vehicle)	3.69		3.01

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

Version 2.0

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Plant Characteristics

		Current	Reference
SIC Code: 3711 (Motor Vehicle Assembly)		TMMK-2	
Zip Code: 40324		Select Year: 2007	2004
Location: Lexington, KY		Production (# of vehicles): 254,873	
30 Year HDD: 4,783		Line speed (vehicles per hour): 74.7	
30 Year CDD: 1,140		Capacity (# of vehicles): 255,175	0
Notes:		% Utilization (production/capacity): 100%	#DIV/0!
www.weatherunderground.com From 12/06 to 11/07	Wheelbase of the largest vehicle produced (inches):	HDD: 4,218	
	Is this plant air conditioned? :	CDD: 1,593	
		109.3	
		yes	

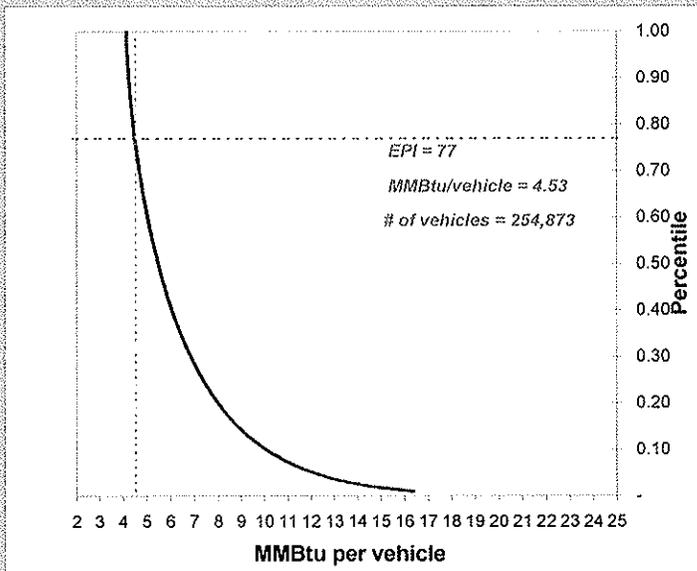
Energy Consumption

Select Units		Electricity	Gas	Distillate Oil	Residual Oil	Coal	Other
		MWh	MMBtu	Gallons	Gallons	Short Tons	MMBtu
TMMK-2 (2007)	Annual Purchase:	116,699	756,340				
	Annual Cost (\$):	3,384,271	3,004,739				
0 (2004)	Annual Purchase:						
	Annual Cost (\$):						

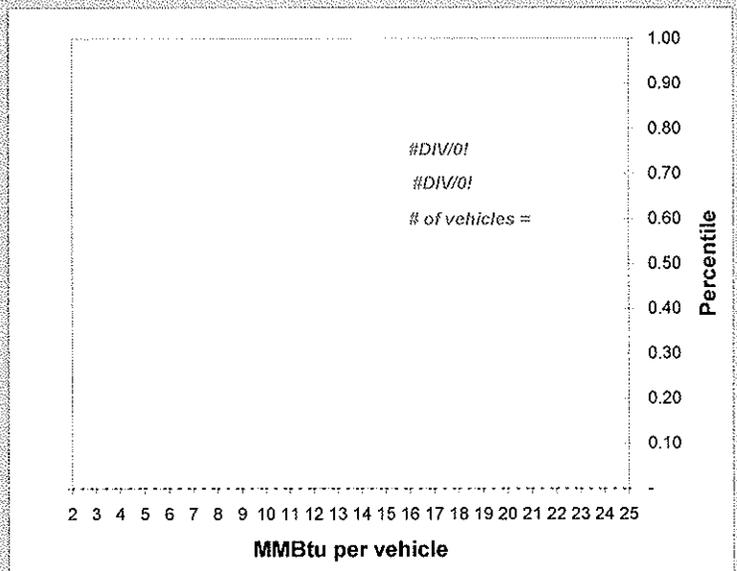
Total Site Energy Results

	Current TMMK-2 (2007)	Reference 0 (2004)	Average TMMK-2 (2007)	Efficient TMMK-2 (2007)
Electric				
EPI	77	#DIV/0!	50	75
Annual Energy Cost (\$/year)	\$6,389,010	\$0	\$7,055,799	\$6,144,279
Number of Vehicles	254,873	0	254,873	254,873
\$ Energy/vehicle	25.07	#DIV/0!	27.68	24.11
Energy Output Rate (MMBtu/vehicle)	4.53	#DIV/0!	5.48	4.56
Fuels				

Current: TMMK-2 (2007)



Reference: (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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Electricity Only Results

EPI Tool

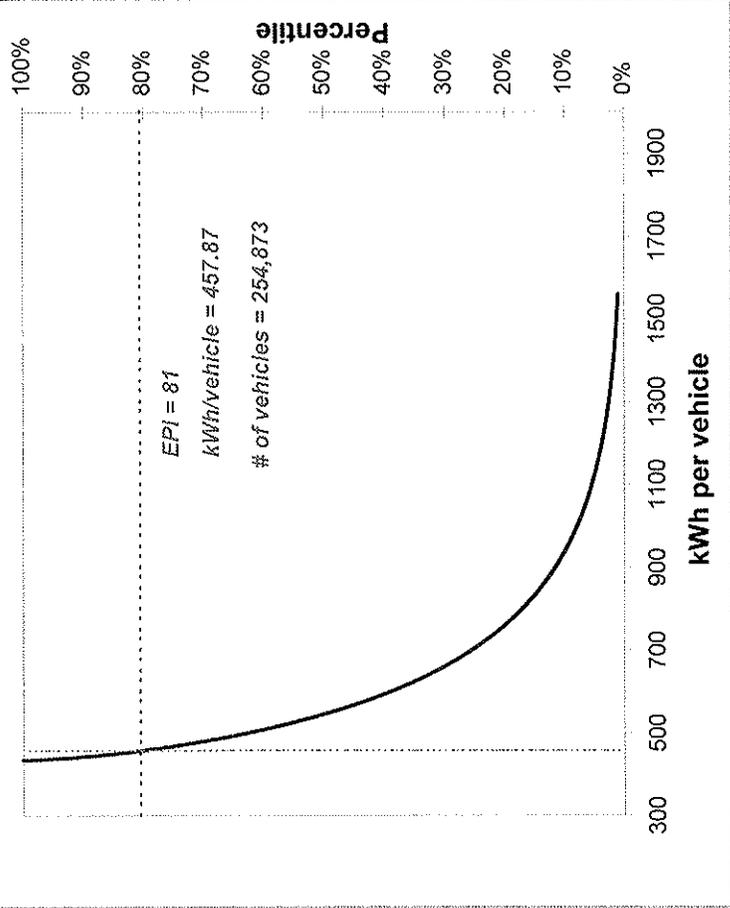
Fuels

TMMK-2 (2007)	81	TMMK-2 (2007)	75
Annual Electricity Cost (\$/year)	\$3,384,271	Average TMMK-2 (2007)	\$4,052,104
Number of Vehicles	254,873		254,873
Electricity/vehicle	13.28		15.90
Energy Output Ratio (kWh/vehicle)	457.87		548.22

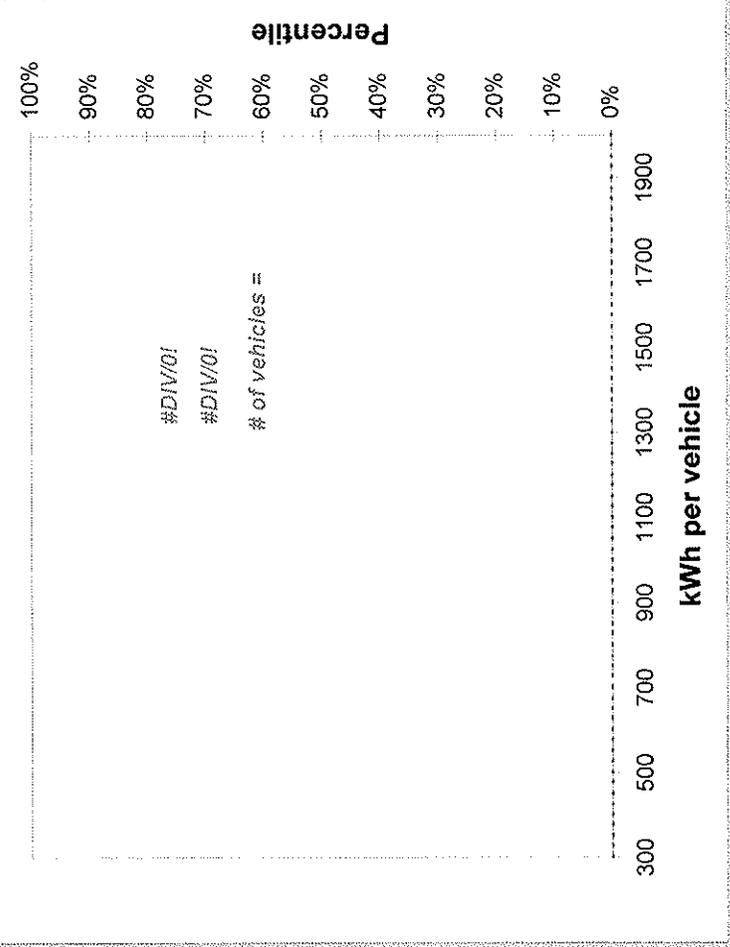
0 (2004)	#DIV/0!
\$0	#DIV/0!
0	#DIV/0!
#DIV/0!	#DIV/0!
#DIV/0!	#DIV/0!

Efficient TMMK-2 (2007)	75
\$3,472,810	
254,873	
13.63	
469.85	

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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Non-Electric Fuels Results

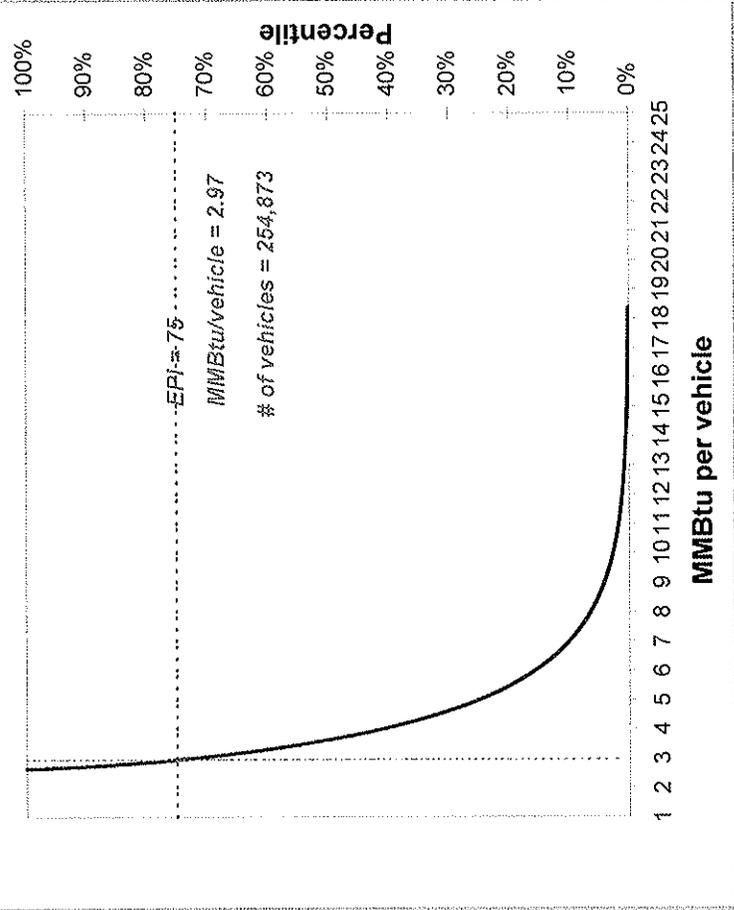
EPI Tool **Electric**

	TMMK-2 (2007)	EPI	TMMK-2 (2007)	75
Annual Fuel Cost (\$/year)	\$3,004,739		\$3,004,739	
Number of Vehicles	254,873		254,873	
\$ Fuel/Vehicle	11.79		11.79	
Fuel Output Ratio (MMBtu/Vehicle)	2.97		2.97	

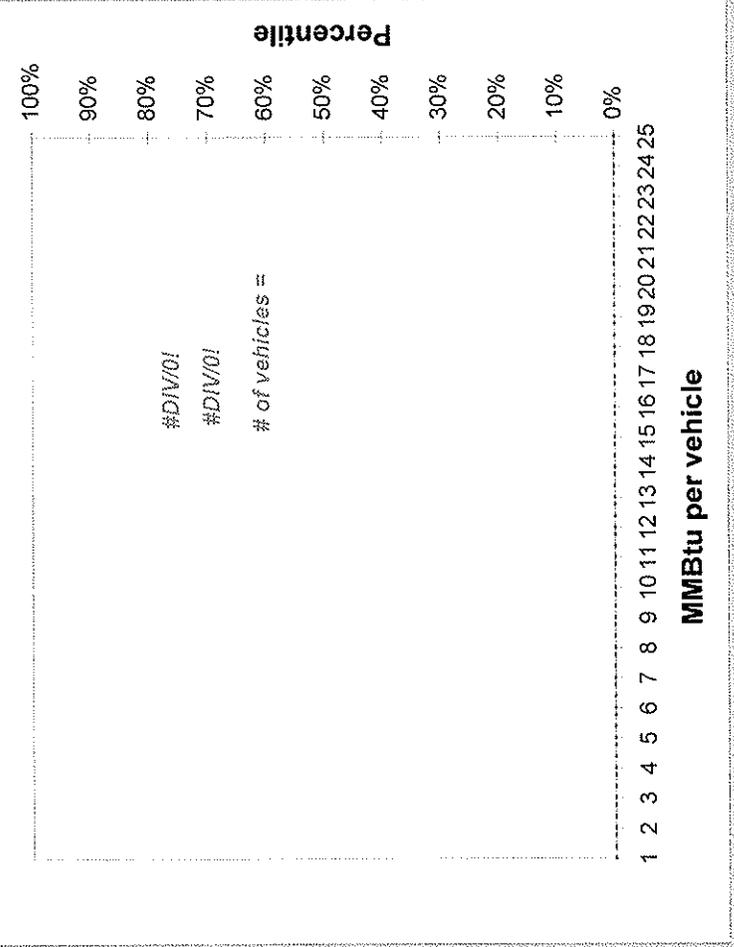
	0	(2004)	50
	\$0		\$3,702,548
	0		254,873
	#DIV/0!		14.53
	#DIV/0!		3.66

	Efficient TMMK-2 (2007)	75	\$3,011,487
			254,873
			11.82
			2.97

Current Year (2007)



Reference Year (2004)





ENERGY STAR

NUMMI Passenger Car Plant

Toyota Engineering & Manufacturing North America, Inc.
45250 Fremont Blvd
Fremont, California 94538

has earned the

ENERGY STAR

for

2007

The U.S. Environmental Protection Agency recognizes
the NUMMI Passenger Car Plant for demonstrating superior
energy performance.

Jean M. Lupinacci
Director, Commercial & Industrial Branch
ENERGY STAR



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WASHINGTON, D.C. 20460

OFFICE OF
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June 9, 2008

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Toyota Motor Engineering &
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37 Atlantic Ave
Erlanger, KY 41018

Dear Mr. Bremer:

Congratulations! The U.S. Environmental Protection Agency awards the **Toyota Motor Engineering & Manufacturing NUMMI Car Plant** with the 2007 ENERGY STAR. The ENERGY STAR is the distinguishing mark of energy performance, and, for manufacturing plants in the United States, highlights your plant's status within the top quartile of auto assembly plants in the nation. Receiving the ENERGY STAR is a testament to the compatibility of improving our environment while enhancing the corporate bottom line.

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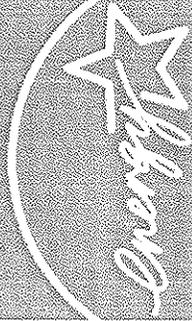
Thank you for your contribution in protecting the environment. We hope you will display the ENERGY STAR proudly. As you continue to operate this plant energy-efficiently, EPA will look forward to receiving your application for the ENERGY STAR next year!

Sincerely,

A handwritten signature in cursive script that reads "Jean Lupinacci".

Jean Lupinacci
Director, Commercial and Industrial Branch
ENERGY STAR

Enclosures



ENERGY STAR

NUMMI Truck Plant

Toyota Engineering & Manufacturing North America, Inc.
45250 Fremont Blvd
Fremont, California 94538

has earned the

ENERGY STAR

for

2007

The U.S. Environmental Protection Agency recognizes the NUMMI Truck Plant for demonstrating superior energy performance.

Jean M. Lupinacci
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Joan Lupinacci
Director, Commercial and Industrial Branch
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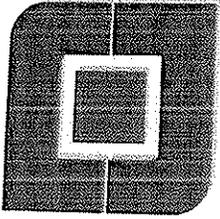
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ENERGY STAR

Enclosures

cc: Mr. Bruce Bremer



TRAINING & TOUR CENTER

WARNING:
 Caution: This is a hot surface.
 Do not touch. Burns may occur.
 Keep children and pets away.
 For more information, call 1-800-451-7273.
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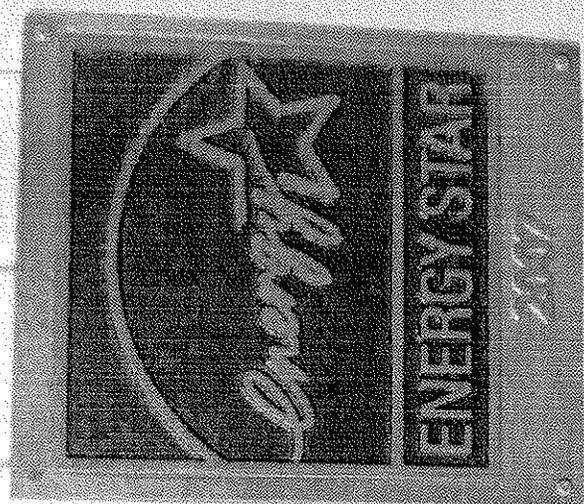
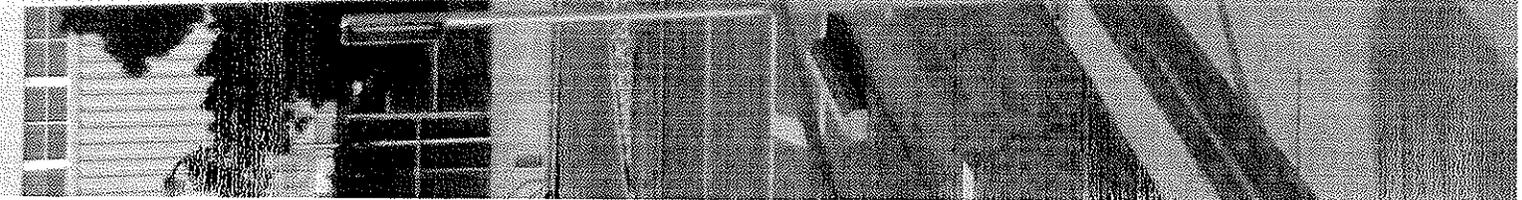


 TRAINING &
TOUR CENTER

ALBERT
E. ...

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Energy Performance Indicator Tool for Automobile Assembly Plants

TAHARA

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Plant Characteristics

Plant Characteristics		Current	Reference
SIC Code:	3711 (Motor Vehicle Assembly)	NUMMI - P	NUMMI - P
Zip Code:	94538	2007	2004
Location:	Concord, CA	Production (# of vehicles)	249,545
30 Year HDD	2,749	Line speed (vehicles per hour)	66.7
30 Year CDD	1,237	Capacity (# of vehicles)	227,733
Notes:	EPI Duration is CY07. HDD/CDD from weatherunderground.com	% Utilization (production/capacity)	110%
		HDD	2,674
		CDD	364
		Wheelbase of the largest vehicle produced (inches)	102.4
		Is this plant air-tempered?	no

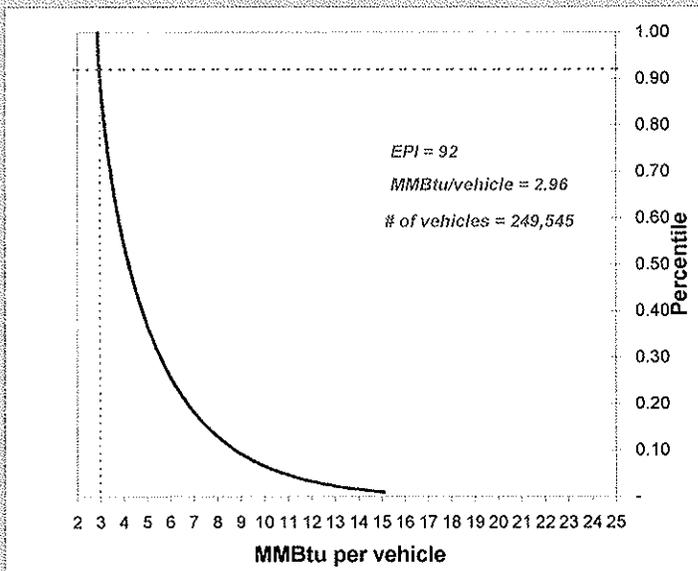
Energy Consumption

Select Units	Electricity	Gas	Distillate Oil	Residual Oil	Coal	Other	
							MWH
NUMMI - P (2007)	Annual Purchases	75,394	481,682				
	Annual Cost (\$)	4,222,090	1,768,200				
NUMMI - P (2004)	Annual Purchases	88,293	540,329				
	Annual Cost (\$)	4,944,401	1,983,486				

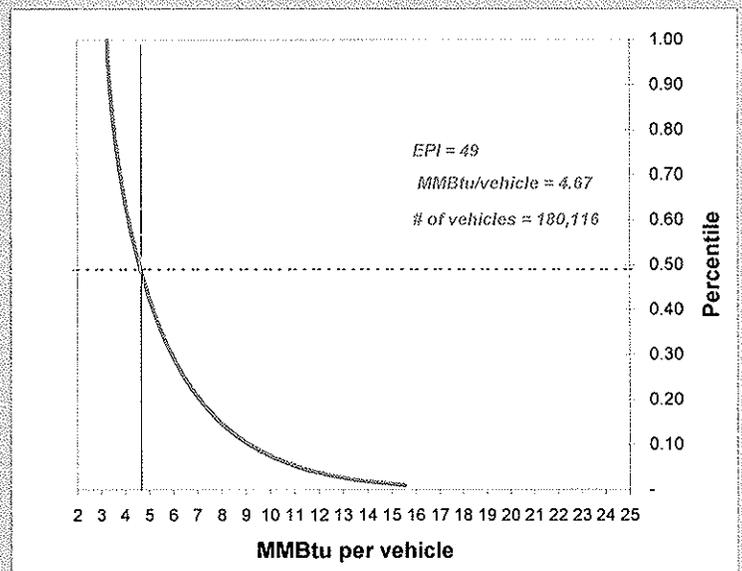
Total Site Energy Results

	Current NUMMI - P (2007)	Reference NUMMI - P (2004)	Average Plant (2007)	Efficient Plant (2007)
Electric				
Fuels				
EPI	92	49	50	75
Annual Energy Cost (\$/year)	\$5,990,290	\$6,927,887	\$7,547,162	\$6,239,777
Number of Vehicles	249,545	180,116	249,545	249,545
\$/Energy/vehicle	24.00	38.46	30.24	25.00
Energy Output Ratio (MMBtu/vehicle)	2.96	4.67	4.21	3.29

Current: NUMMI - P (2007)



Reference: NUMMI - P (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

12/16/07

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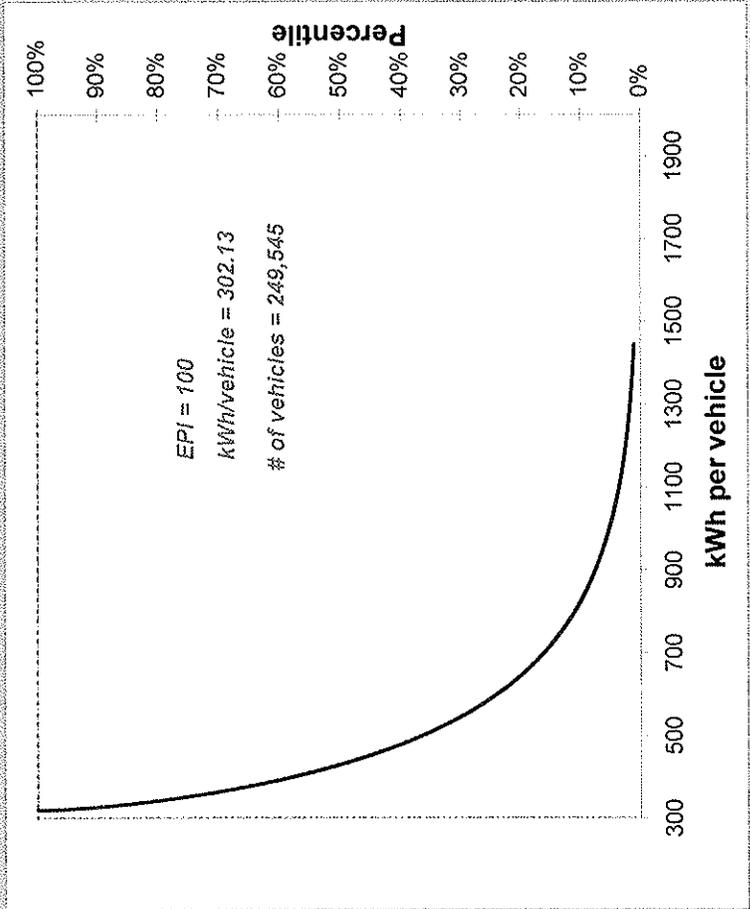
Electricity Only Results

[EPI Tool](#)

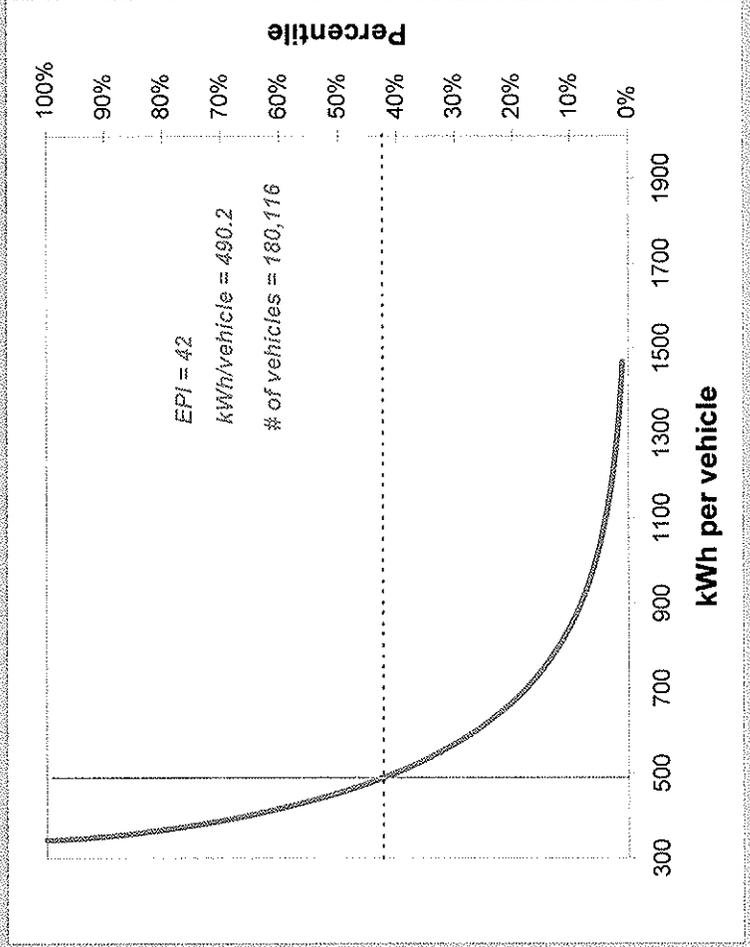
[Fields](#)

	NUMMI - P (2007)	NUMMI - P (2004)	Average Plant (2007)	Efficient Plant (2007)
EPI	100	42	50	75
Annual Electricity Cost (\$/year)	\$4,222,090	\$4,944,401	\$6,050,832	\$4,955,579
Number of Vehicles	249,545	180,116	249,545	249,545
\$ Electricity/vehicle	16.92	27.45	24.25	19.86
Energy Output Rate (kWh/vehicle)	302.13	490.20	432.99	354.62

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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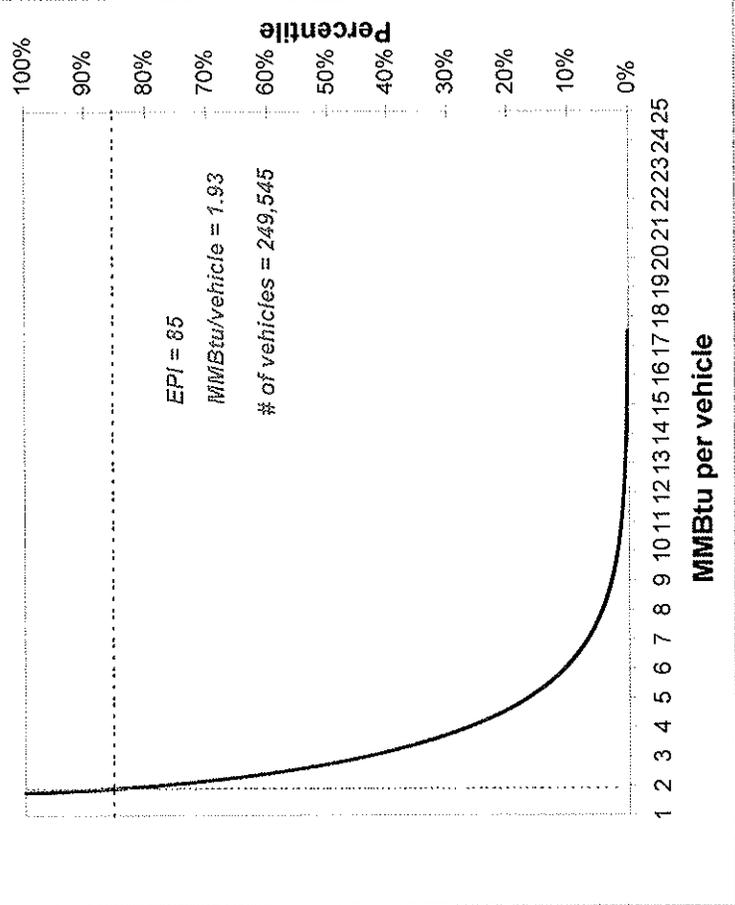
Non-Electric Fuels Results

EPI Tool **Electric**

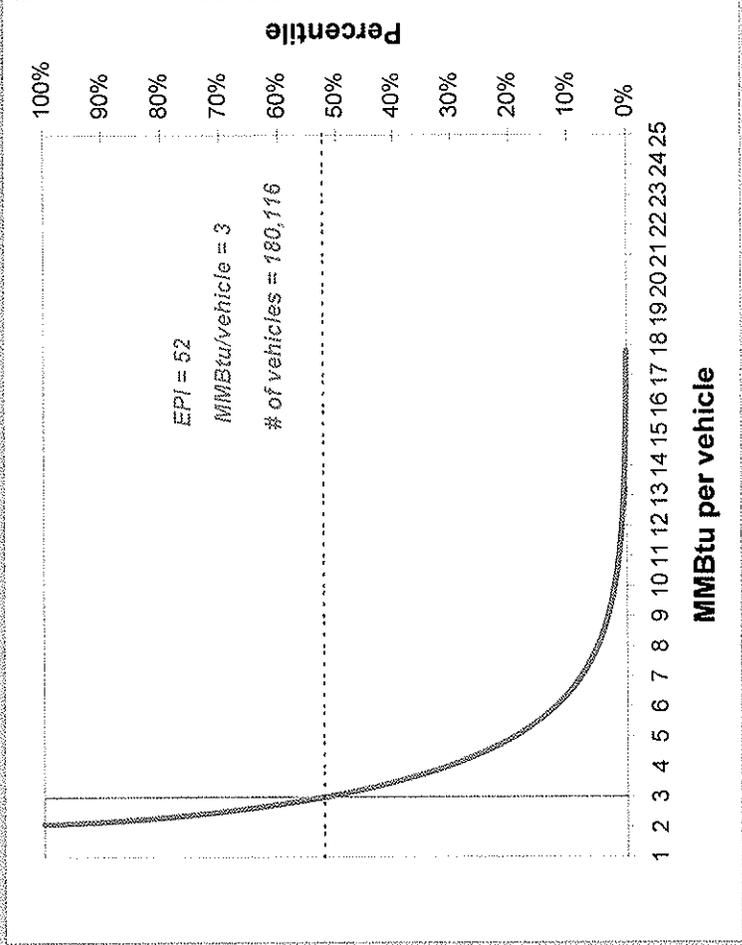
NUMMI - P (2007) **EPI**
 85
Annual Fuel Cost (\$/year)
 \$1,768,200
Number of Vehicles
 249,545
\$ Fuel/vehicle
 7.09
Fuel Output Ratio (MMBtu/vehicle)
 1.93

NUMMI - P (2004) **Average Plant (2007)** **Efficient Plant (2007)**
 52 50 75
 \$1,983,486 \$2,544,816 \$1,919,611
 180,116 249,545 249,545
 11.01 10.20 7.69
 3.00 2.78 2.10

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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Plant Characteristics

SIC Code: 3711 (Motor Vehicle Assembly)
 Zip Code: 94538
 Location: Concord, CA
 30 Year HDD: 2,749
 30 Year CDD: 1,237

Notes: EPI Duration is CY07. HDD/CDD from weatherunderground.com

	Current	Reference
Select Year	NUMMI - T 2007	NUMMI - T 2004
Production (# of vehicles)	158,351	160,116
Line speed (vehicles per hour)	44.4	43.9
Capacity (# of vehicles)	151,822	149,962
% Utilization (production/capacity)	104%	107%
HDD	2,674	2,201.0
CDD	364	714.0
Wheelbase of the largest vehicle produced (inches)	120.0	120.0
Is this plant air-conditioned?	no	no

Energy Consumption

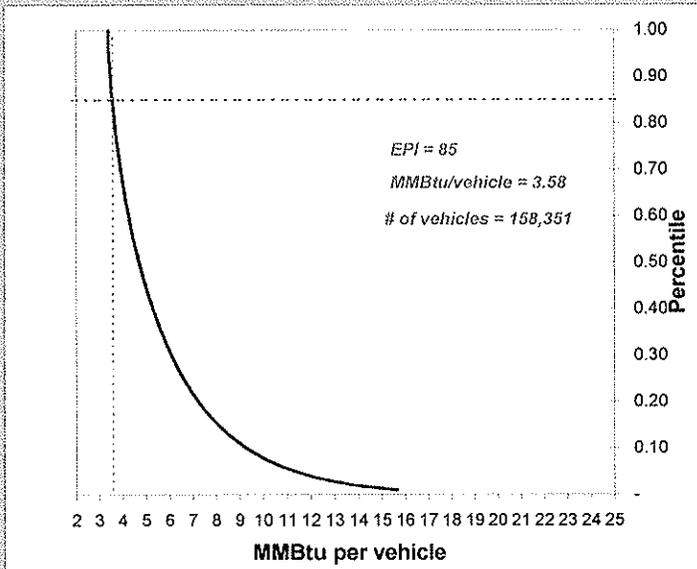
	Select Units	Electricity	Gas	Distillate Oil	Residual Oil	Coal	Other
		MWH	MMBtu	Gallons	Gallons	Short Tons	MMBtu
NUMMI - T (2007)	Annual Purchase	51,519	390,957				
	Annual Cost (\$)	2,885,087	1,435,159				
NUMMI - T (2004)	Annual Purchase	66,816	436,252				
	Annual Cost (\$)	3,741,696	1,601,431				

Total Site Energy Results

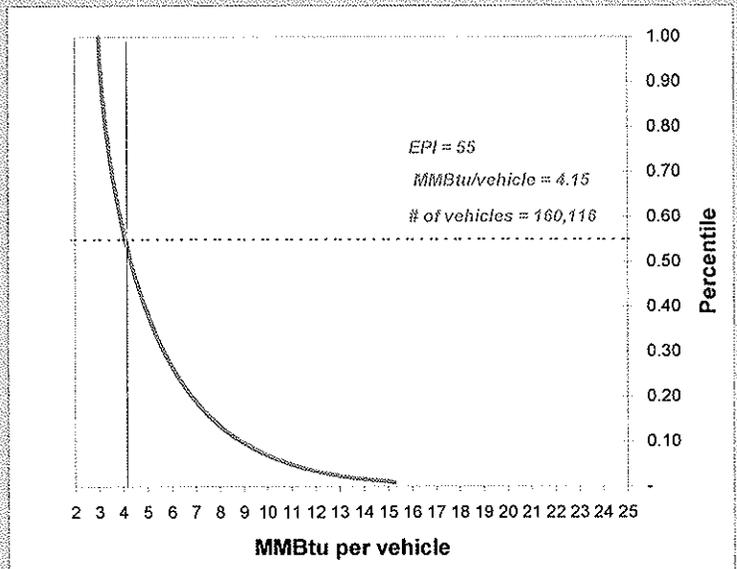
Electric **Fuels**

	Current NUMMI - T (2007)	Reference NUMMI - T (2004)	Average Plant (2007)	Efficient Plant (2007)
EPI	85	55	50	75
Annual Energy Cost (\$/year)	\$4,320,246	\$5,343,127	\$5,122,446	\$4,342,341
Number of Vehicles	158,351	160,116	158,351	158,351
% Energy/Vehicle	27.28	33.37	32.35	27.42
Energy Output Ratio (MMBtu/vehicle)	3.58	4.15	4.72	3.80

Current: NUMMI - T (2007)



Reference: NUMMI - T (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

Dashboard

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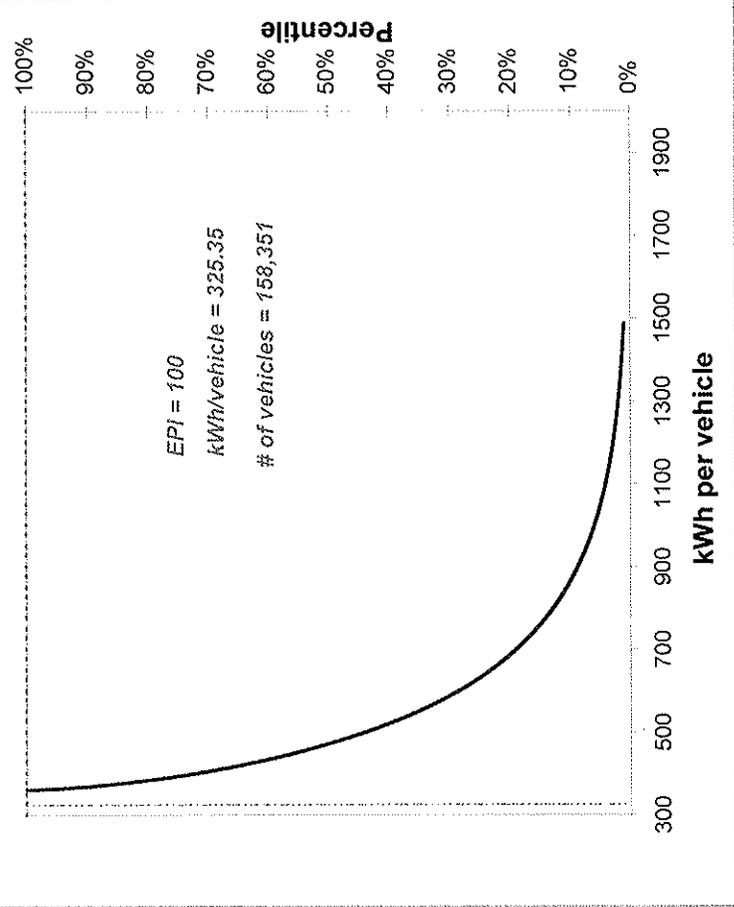
Electricity Only Results

[EPI Tool](#)

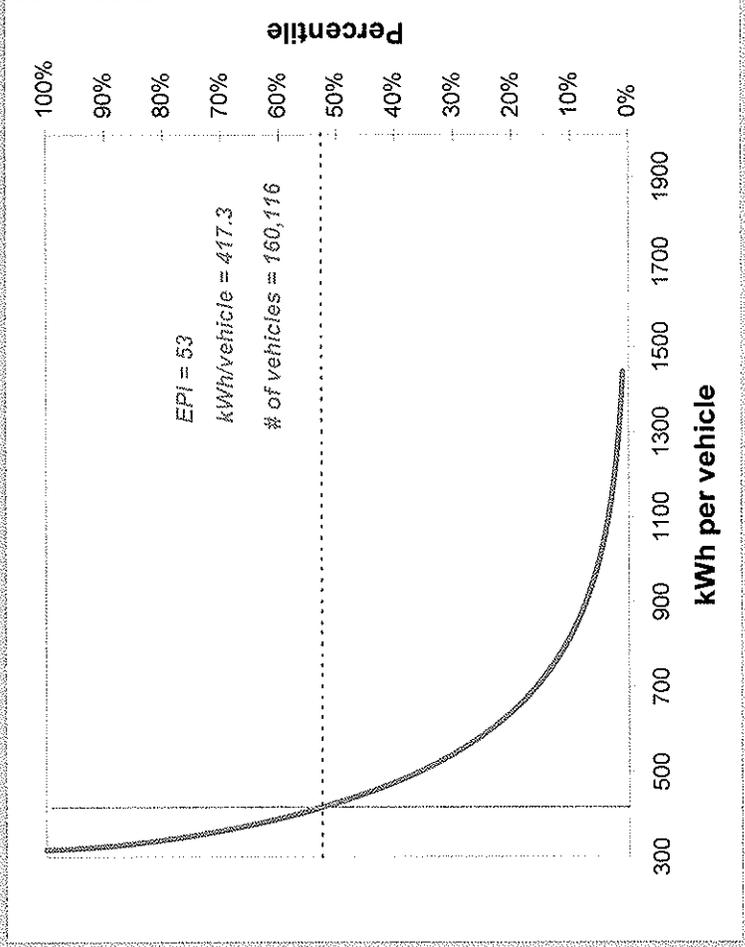
[Fuels](#)

	NUMMI - T (2007)	NUMMI - T (2004)	Average Plant (2007)	Efficient Plant (2007)
EPI	100	53	50	75
Annual Electricity Cost (\$/year)	\$2,885,087	\$3,741,696	\$4,209,478	\$3,514,476
Number of Vehicles	158,351	160,116	158,351	158,351
\$/Electricity/vehicle	18.22	23.37	26.58	22.19
Energy Output Ratio (kWh/vehicle)	325.35	417.30	474.70	396.33

Current Year (2007)



Reference Year (2004)





Energy Performance Indicator Tool for Automobile Assembly Plants

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Non-Electric Fuels Results

EPI Tool

Electric

NUMMI - T
(2007)
75

Annual Fuel Cost (\$/year) \$1,435,159
 Number of Vehicles 158,351
 \$ Fuel/vehicle 9.06
 Fuel Output Ratio (MMBtu/vehicle) 2.47

NUMMI - T
(2004)
55

Annual Fuel Cost (\$/year) \$1,601,431
 Number of Vehicles 160,116
 \$ Fuel/vehicle 10.00
 Fuel Output Ratio (MMBtu/vehicle) 2.72

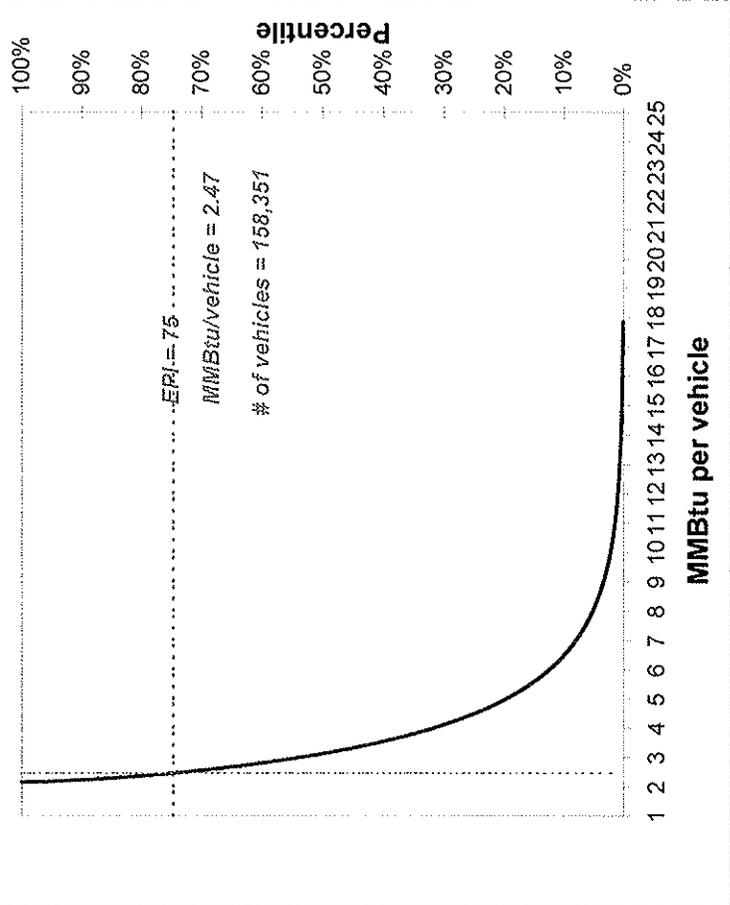
Average
Plant
(2007)
50

Annual Fuel Cost (\$/year) \$1,830,251
 Number of Vehicles 158,351
 \$ Fuel/vehicle 11.56
 Fuel Output Ratio (MMBtu/vehicle) 3.15

Efficient
Plant
(2007)
75

Annual Fuel Cost (\$/year) \$1,433,521
 Number of Vehicles 158,351
 \$ Fuel/vehicle 9.05
 Fuel Output Ratio (MMBtu/vehicle) 2.47

Current Year (2007)



Reference Year (2004)

