

## **Appendix D**



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### Greenhouse Gas Emissions Worksheets

# **Ford Theaters Project**

## Draft EIR

Appendix D  
GHG Worksheets  
June 2014

# Appendix D

- GHG Construction CalEEMod Output File
- GHG Operational CalEEMod Output File
  - Existing
  - No Project (2020)
  - Business as Usual (2020)
  - Project (2020)

# **Ford Theaters Project**

## Draft EIR

June 2014

- GHG Construction CalEEMod Output File

## Ford Theatre Construction Total Construction for GHG Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	21.23	1000sqft	0.49	21,230.00	0
Enclosed Parking Structure	150.00	Space	1.35	60,000.00	0
Arena	16.30	1000sqft	5.24	16,300.00	0
Fast Food Restaurant w/o Drive Thru	6.08	1000sqft	0.14	6,080.00	0
Strip Mall	3.60	1000sqft	0.08	3,600.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>	2020		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MW hr)</b>	1050	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - 2014 Intensity Factor

Land Use - Site Specific

Construction Phase - Site Specific Combined OS3-OS5

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Off-road Equipment - Site Specific

Trips and VMT - Site Specific

Demolition -

Grading - Site Specific

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	84.00
tblConstructionPhase	NumDays	230.00	50.00
tblConstructionPhase	NumDays	20.00	72.00
tblConstructionPhase	NumDays	20.00	64.00
tblConstructionPhase	NumDays	20.00	63.00
tblConstructionPhase	NumDays	10.00	72.00
tblConstructionPhase	PhaseEndDate	7/26/2016	7/10/2016
tblConstructionPhase	PhaseEndDate	9/16/2016	7/10/2016
tblConstructionPhase	PhaseEndDate	10/5/2016	7/24/2020
tblConstructionPhase	PhaseEndDate	4/11/2016	12/31/2015
tblConstructionPhase	PhaseStartDate	3/31/2016	3/15/2016
tblConstructionPhase	PhaseStartDate	7/11/2016	5/1/2016

tblConstructionPhase	PhaseStartDate	7/11/2016	4/29/2020
tblConstructionPhase	PhaseStartDate	1/1/2016	9/23/2015
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	AcresOfGrading	0.00	5.00
tblGrading	MaterialExported	0.00	57,000.00
tblGrading	MaterialExported	0.00	60,000.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	4.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	7.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	6.70
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1050
tblProjectCharacteristics	OperationalYear	2014	2020
tblTripsAndVMT	HaulingTripNumber	1,780.00	86.00
tblTripsAndVMT	HaulingTripNumber	7,500.00	4,824.00
tblTripsAndVMT	HaulingTripNumber	7,125.00	4,288.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,136.00
tblTripsAndVMT	VendorTripNumber	0.00	16.00
tblTripsAndVMT	VendorTripNumber	0.00	28.00
tblTripsAndVMT	VendorTripNumber	18.00	6.00
tblTripsAndVMT	WorkerTripNumber	45.00	98.00
tblTripsAndVMT	WorkerTripNumber	58.00	80.00
tblTripsAndVMT	WorkerTripNumber	9.00	0.00
tblTripsAndVMT	WorkerTripNumber	43.00	235.00

## 2.0 Emissions Summary



# Ford Theaters Project

## Draft EIR

June 2014

- GHG Operational CalEEMod Output File
  - Existing
  - No Project (2020)
  - Business as Usual (2020)
  - Project (2020)



## Ford Theater Existing Condition-Annual (GHG) Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.48	1000sqft	0.33	14,485.00	0
Parking Lot	380.00	Space	3.42	152,000.00	0
Fast Food Restaurant w/o Drive Thru	0.32	1000sqft	0.01	320.00	0
Movie Theater (No Matinee)	1,287.00	Seat	0.66	21,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2014
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1050	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2014 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Water And Wastewater - Site Specific

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	14,480.00	14,485.00
tblLandUse	LandUseSquareFeet	28,957.50	21,000.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	1050
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	15.74
tblVehicleTrips	ST_TR	1.80	0.08
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	0.98	15.74
tblVehicleTrips	SU_TR	1.80	0.08
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.01	15.74
tblVehicleTrips	WD_TR	1.80	0.08

tblWater	IndoorWaterUseRate	97,130.79	35,040.00
tblWater	IndoorWaterUseRate	2,573,584.67	6,570.00
tblWater	IndoorWaterUseRate	11,629,374.33	2,182,700.00
tblWater	OutdoorWaterUseRate	6,199.84	0.00
tblWater	OutdoorWaterUseRate	1,577,358.35	0.00
tblWater	OutdoorWaterUseRate	742,300.49	0.00

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0444
Energy																326.0122
Mobile																566.9981
Waste																7.8064
Water																16.5848
<b>Total</b>																<b>917.4459</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0444
Energy																326.0122
Mobile																566.9981
Waste																7.8064
Water																16.5837
<b>Total</b>																<b>917.4447</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	566.9981
Unmitigated																	566.9981

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	227.95	227.95	227.95	897,840	897,840
Movie Theater (No Matinee)	98.80	98.80	98.80	297,151	297,151
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>326.75</b>	<b>326.75</b>	<b>326.75</b>	<b>1,194,991</b>	<b>1,194,991</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.535275	0.058759	0.178478	0.127034	0.038632	0.006246	0.015618	0.028471	0.002426	0.003171	0.003696	0.000547	0.001645

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated																	292.3015
Electricity Unmitigated																	292.3015
NaturalGas Mitigated																	33.7108
NaturalGas Unmitigated																	33.7108

#### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Total					292.3015
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## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	0.0444
Unmitigated																	0.0444

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0444
<b>Total</b>																	<b>0.0444</b>

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0444
<b>Total</b>																	<b>0.0444</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			

Mitigated				16.5837
Unmitigated				16.5848

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive-Thru	0.03504 / 0				0.2613
General Office Building	0.00657 / 0				0.0490
Movie Theater (No Matinee)	2.1827 / 0				16.2746
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>16.5848</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive-Thru	0.03504 / 0				0.2613
General Office Building	0.00657 / 0				0.0490
Movie Theater (No Matinee)	2.1827 / 0				16.2735
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>16.5837</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				7.8064
Unmitigated				7.8064

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	Mt/yr			
Fast Food Restaurant w/o Drive Thru	3.69				1.6786
General Office Building	13.47				6.1277
Parking Lot	0				0.0000
<b>Total</b>					<b>7.8064</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	Mt/yr			
Fast Food Restaurant w/o Drive Thru	3.69				1.6786
General Office Building	13.47				6.1277
Parking Lot	0				0.0000
<b>Total</b>					<b>7.8064</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Vegetation**

## Ford Theater 2020 No Project Condition-Annual (2020 GHG) Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	14.48	1000sqft	0.33	14,485.00	0
Parking Lot	380.00	Space	3.42	152,000.00	0
Fast Food Restaurant w/o Drive Thru	0.32	1000sqft	0.01	320.00	0
Movie Theater (No Matinee)	1,287.00	Seat	0.66	21,000.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11			<b>Operational Year</b>	2020
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	850	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2014 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Water And Wastewater - Site Specific

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	14,480.00	14,485.00
tblLandUse	LandUseSquareFeet	28,957.50	21,000.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	850
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.37	15.74
tblVehicleTrips	ST_TR	1.80	0.08
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	0.98	15.74
tblVehicleTrips	SU_TR	1.80	0.08
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.01	15.74



tblVehicleTrips	WD_TR	1.80	0.08
tblWater	IndoorWaterUseRate	97,130.79	35,040.00
tblWater	IndoorWaterUseRate	2,573,584.67	6,570.00
tblWater	IndoorWaterUseRate	11,629,374.33	2,182,700.00
tblWater	OutdoorWaterUseRate	6,199.84	0.00
tblWater	OutdoorWaterUseRate	1,577,358.35	0.00
tblWater	OutdoorWaterUseRate	742,300.49	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0441
Energy																270.4664
Mobile																479.7189
Waste																7.8064
Water																13.9574
<b>Total</b>																<b>771.9930</b>

#### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area																0.0441
Energy																270.4664
Mobile																479.7189
Waste																7.8064
Water																13.9563
<b>Total</b>																<b>771.9919</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	479.7189
Unmitigated																	479.7189

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	227.95	227.95	227.95	897,840	897,840
Movie Theater (No Matinee)	98.80	98.80	98.80	297,151	297,151
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>326.75</b>	<b>326.75</b>	<b>326.75</b>	<b>1,194,991</b>	<b>1,194,991</b>

#### 4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	100	0	0
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	100	0	0
Movie Theater (No Matinee)	16.60	8.40	6.90	1.80	79.20	19.00	100	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.530094	0.057664	0.178835	0.124843	0.039181	0.006319	0.017052	0.034445	0.002509	0.003148	0.003693	0.000531	0.001685

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Electricity Mitigated																	236.7556
Electricity Unmitigated																	236.7556
NaturalGas Mitigated																	33.7108
NaturalGas Unmitigated																	33.7108

#### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant w/o Drive Thru	74563.2																4.0032
General Office Building	158321																8.5000
Movie Theater (No Matinee)	395010																21.2075
Parking Lot	0																0.0000
<b>Total</b>																	<b>33.7107</b>

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	158321																8.5000
Movie Theater (No Matinee)	395010																21.2075
Parking Lot	0																0.0000
Fast Food Restaurant w/o Drive Thru	74563.2																4.0032
<b>Total</b>																	<b>33.7107</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	15011.2				5.8044
General Office Building	210467				81.3820
Movie Theater (No Matinee)	253050				97.8477
Parking Lot	133760				51.7214
<b>Total</b>					<b>236.7556</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	15011.2				5.8044
General Office Building	210467				81.3820
Movie Theater (No Matinee)	253050				97.8477

Parking Lot	133760				51.7214
<b>Total</b>					<b>236.7556</b>

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated																	0.0441
Unmitigated																	0.0441

### 6.2 Area by SubCategory

#### Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0441
<b>Total</b>																	<b>0.0441</b>

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr										MT/yr						
Architectural Coating																	0.0000
Consumer Products																	0.0000
Landscaping																	0.0441
<b>Total</b>																	<b>0.0441</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e

Category	MT/yr		
Mitigated			13.9563
Unmitigated			13.9574

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.03504 / 0				0.2199
General Office Building	0.00657 / 0				0.0412
Movie Theater (No Matinee)	2.1827 / 0				13.6963
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>13.9574</b>

### Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.03504 / 0				0.2199
General Office Building	0.00657 / 0				0.0412
Movie Theater (No Matinee)	2.1827 / 0				13.6952
Parking Lot	0 / 0				0.0000
<b>Total</b>					<b>13.9563</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				7.8064
Unmitigated				7.8064

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive-Thru	3.69				1.6786
General Office Building	13.47				6.1277
Parking Lot	0				0.0000
<b>Total</b>					<b>7.8064</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive-Thru	3.69				1.6786
General Office Building	13.47				6.1277
Parking Lot	0				0.0000
<b>Total</b>					<b>7.8064</b>

## 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Vegetation

## Ford Theater Future Project Condition GHG Analysis BAU (2020) Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	35.95	1000sqft	0.83	35,945.00	0
Enclosed Parking with Elevator	700.00	Space	6.30	280,000.00	0
City Park	1.00	Acre	1.00	0.00	0
Fast Food Restaurant w/o Drive Thru	6.40	1000sqft	0.15	6,400.00	0
Movie Theater (No Matinee)	1,598.00	Seat	0.83	37,646.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>	2020		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	840	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2020 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Water And Wastewater - Site Specific

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	35,950.00	35,945.00
tblLandUse	LandUseSquareFeet	43,560.00	0.00
tblLandUse	LandUseSquareFeet	35,955.00	37,646.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	1.59	200.00







	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated																1,062.8129
Electricity Unmitigated																1,208.8306
NaturalGas Mitigated																129.4391
NaturalGas Unmitigated																139.1750

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0																0.0000
Enclosed Parking with Elevator	0																0.0000
Fast Food Restaurant w/o Drive-Thru	1.49126e+006																80.0638
General Office Building	392879																21.0931
Movie Theater (No Matinee)	708121																38.0180
<b>Total</b>																	<b>139.1750</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0																0.0000
Fast Food Restaurant w/o Drive-Thru	1.44784e+006																77.7326
General Office Building	336050																18.0420
Movie Theater (No Matinee)	627032																33.6644
City Park	0																0.0000
<b>Total</b>																	<b>129.4391</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0				0.0000



**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating																0.0000
Consumer Products																0.0000
Landscaping																0.0614
<b>Total</b>																<b>0.0614</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated				21.1863
Unmitigated				43.5835

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0				0.0000
Enclosed Parking with Elevator	0 / 0				0.0000
Fast Food Restaurant w/o Drive Thru	2.90905 / 0				18.0823
General Office Building	1.19355 / 0				7.4190
Movie Theater (No Matinee)	2.90905 / 0				18.0823
<b>Total</b>					<b>43.5835</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

City Park	0 / 0			0.0000
Enclosed Parking with Elevator	0 / 0			0.0000
Fast Food Restaurant w/o	1.45453 / 0			8.7899
General Office Building	0.596775 / 0			3.6064
Movie Theater (No Matinee)	1.45453 / 0			8.7899
<b>Total</b>				<b>21.1863</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				48.7852
Unmitigated				48.7852

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09				0.0409
Enclosed Parking with Elevator	0				0.0000
Fast Food Restaurant w/o	73.72				33.5364
General Office Building	33.43				15.2078
<b>Total</b>					<b>48.7852</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09				0.0409
Enclosed Parking with Elevator	0				0.0000
Fast Food Restaurant w/o	73.72				33.5364
General Office Building	33.43				15.2078

Total				48.7852
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### 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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### 10.0 Vegetation

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## Ford Theater Future Project Condition GHG Analysis (2020) Los Angeles-South Coast County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	35.95	1000sqft	0.83	35,945.00	0
Enclosed Parking with Elevator	700.00	Space	6.30	280,000.00	0
City Park	1.00	Acre	1.00	0.00	0
Fast Food Restaurant w/o Drive Thru	6.40	1000sqft	0.15	6,400.00	0
Movie Theater (No Matinee)	1,598.00	Seat	0.83	37,646.00	0

#### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	11	<b>Operational Year</b>	2020		
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	840	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics - Correction factor applied to CO2 intensity factor to represent 2020 conditions.

Land Use - Site Specific

Vehicle Trips - Site Specific

Energy Use - Amphitheater conservatively assumed to be a movie theater.

Water And Wastewater - Site Specific

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	35,950.00	35,945.00
tblLandUse	LandUseSquareFeet	43,560.00	0.00
tblLandUse	LandUseSquareFeet	35,955.00	37,646.00
tblProjectCharacteristics	CO2IntensityFactor	1227.89	840
tblProjectCharacteristics	OperationalYear	2014	2020
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	DV_TP	37.00	0.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	17.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	17.00	0.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	PR_TP	51.00	100.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	66.00	100.00
tblVehicleTrips	ST_TR	1.59	200.00







	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated																1,062.8129
Electricity Unmitigated																1,208.8306
NaturalGas Mitigated																129.4391
NaturalGas Unmitigated																139.1750

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0																0.0000
Enclosed Parking with Elevator	0																0.0000
Fast Food Restaurant w/o Drive Thru	1.49126e+006																80.0638
General Office Building	392879																21.0931
Movie Theater (No Matinee)	708121																38.0180
<b>Total</b>																	<b>139.1750</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Enclosed Parking with Elevator	0																0.0000
Fast Food Restaurant w/o Drive Thru	1.44784e+006																77.7326
General Office Building	336050																18.0420
Movie Theater (No Matinee)	627032																33.6644
City Park	0																0.0000
<b>Total</b>																	<b>129.4391</b>

## 5.3 Energy by Land Use - Electricity

### Unmitigated

Electricity Use	Total CO2	CH4	N2O	CO2e
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	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0				0.0000
Enclosed Parking with Elevator	0 / 0				0.0000
Fast Food Restaurant w/o Drive Thru	1.45453 / 0				8.7899
General Office Building	0.596775 / 0				3.6064
Movie Theater (No Matinee)	1.45453 / 0				8.7899
<b>Total</b>					<b>21.1863</b>

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated				48.7852
Unmitigated				48.7852

### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09				0.0409
Enclosed Parking with Elevator	0				0.0000
Fast Food Restaurant w/o Drive Thru	73.72				33.5364
General Office Building	33.43				15.2078
<b>Total</b>					<b>48.7852</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.09				0.0409

Enclosed Parking with Elevator	0			0.0000
Fast Food Restaurant w/o	73.72			33.5364
General Office Building	33.43			15.2078
<b>Total</b>				<b>48.7852</b>

## 9.0 Operational Offroad

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## 10.0 Vegetation

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