

DOCKETED

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2012/2013/2014 AVIAN MORTALITY INFORMATION FOR THE GENESIS, DESERT SUNGLIGHT, AND ISEGS PROJECTS

Updated as of 7/18/14

Monthly Totals	2012												2013												2014					
	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june
Genesis (Trough)	0	0	0	0	0	1	6	1	0	4	0	0	0	0	3	4	10	4	26	68	7	12	1	4	4	3	1	No MCR	No MCR	No MCR
Desert Sunlight (PV)	2	0	2	0	2	2	3	4	4	0	4	6	1	1	1	8	10	11	11	8	6	19	6	1	2	2	0	9	5	6
ISEGS (Tower)	1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	4	6	5	8	8	42	58	12	13	25	17	55	97	81	41
Totals by Month	3	0	3	3	3	3	11	6	6	9	7	2	3	2	5	16	26	20	45	84	55	89	19	18	31	22	56	106	86	47

Yearly Totals	2012	2013	2014
Genesis (Trough)	12	139	8
Desert Sunlight (PV)	29	83	24
ISEGS (Tower)	15	160	316

NOTE: The 2014 total for Genesis reflects First Quarter data only - no MCRS were filed in April, May and June.

NOTE: Systematic, statistically rigorous carcass surveys began at ISEGS in November 2013 under the CEC and BLM approved Avian and Bat Monitoring and Management Plan

Color Code Legend

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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THIS IS A SUMMARY SHEET--PROJECT SPECIFIC DATA FOR EACH PROJECT IS PROVIDED ON SEPARATE SHEETS WITHIN THIS EXCEL FILE.

SOURCE INFORMATION:

1. Monthly Compliance Reports for Genesis and ISEGS as publically filed with the California Energy Commission.
2. Publically available biological monitoring reports available from the Desert Sunlight Solar Farm website.
3. Information provided by the Project Owners based on communications with PSH representatives.
4. June 2014 information for ISEGS was provided by BrightSource Energy.

GENESIS		2012												2013												2014					
Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june		
Monthly Total	0	0	0	0	0	1	6	1	0	4	0	0	0	0	3	4	10	4	26	68	7	12	1	4	4	3	1	12	No MCRs filed		
						Unknown	Bullocks Oriole	Mourning dove		American coot					Lesser goldfinch	Black throated grey warbler	Pied billed grebe	Mourning dove	Barn owl	Tree swallow	Grebe species (netting)	Clark's grebe (netting)	Gadwall	House finch	Pigeon	White-throated swift	Eurasian collared dove				
							Bullocks Oriole			Unknown small bird					Lesser goldfinch	House wren	Hermit thrush	Barn owl	Cliff swallow	Tree swallow	MacGillivray's warbler	Unknown		Bullock's oriole	Dove	Unknown					
							Western meadow lark			American kestrel					Bufflehead	Orange-crowned warbler	Townsend's warbler	Barn owl	Yellow headed blackbird	Tree swallow	Yellow breasted black bird	Green wing teal		Unknown	Rock wren	Unknown					
							Unknown species			Barn owl						Pied-billed grebe (netting)	Wilson's warbler	Great Blue Heron	Mourning dove	Tree swallow	Unknown water bird	Green wing teal		White crowned sparrow	American kestrel						
							Brewers blackbird										Yellow warbler		Barn owl	White winged dove	Horned grebe (netting)	Blue wing teal									
							Mourning dove										Yellow warbler		American coot	Cowbird	Mourning dove	Marsh wren									
																	Yellow warbler		Bat western pipistrelle	Cowbird	Unknown	Lesser goldfinch									
																	Warbler		Great blue heron	Herring gull		Cooper's hawk									
																	Sparrow		American kestrel	Say's Phoebe		Passerine species									
																	American coot		Yellow headed blackbird	Cliff swallow		Orange-crowned warbler									
																			Unknown	Gull		Bat									
																			Bat western pipistrelle	Bullock's Oriole		Bat									
																			Great roadrunner	Cliff swallow											
																			Brown pelican	Eared grebe											
																			Cliff swallow	Yellow headed blackbird											
																			Lesser nighthawk	Common loon											
																			Cliff swallow	Bullock's Oriole											
																			Cowbird	Tree swallow											
																			Brewer's blackbird	Rough wing swallow											
																			Say's Phoebe	Cowbird											
																			Cowbird	Cowbird											
																			Great blue heron	Mourning dove											
																			Cowbird	Black headed Grosbeak											
																			Great tailed grackle	Common loon											
																			American kestrel	Black phoebe											
																			Canyon bat	Mourning dove											
																				Cliff swallow											
																				Cliff swallow											
																				Flycatcher											
																				Mourning dove											
																				Lesser nighthawk											
																				Sora											

Entries for August continue on next page

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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DESERT SUNLIGHT	2012												2013												2014					
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Monthly Total	2	0	2	0	2	2	3	4	4	4	6	0	1	1	1	8	10	11	11	8	6	19	6	1	2	2	0	9	5	6
	Burrowing owl		Black tailed gnatcatcher		Western grebe	Unknown	Yellow headed blackbird	Yellow headed blackbird	Cowbird	White crowned sparrow	Barn owl		Common poorwill	Common poorwill	Logger-head shrike	Eared grebe	Common raven	Mourning dove	Town- send's warbler	Brewer's blackbird	Common yellow throat	Yellow-headed blackbird	Sora	Eared grebe	Loggerhead shrike	Sora		Common loon	Western Grebe	Red-winged blackbird
	Praire falcon		Costa's humming bird		Brewer's blackbird	American kestrel	Sparrow	Wilson's warbler	American avocet	American avocet	Long-eared owl					Logger -head shrike	Logger -head shrike	Common loon	Brown pelican	Western tanager	Pied-billed grebe	Western grebe	Red-necked phalarope		White-crowned sparrow	House finch		Common loon	California Myotis	Empidonax flycatcher
							Loggerhead shrike	Yellow rumped warbler	American avocet	Blackbird	Unknown					Surf scoter	Double crested commorant	Western grebe	Brown pelican	Eared grebe	Unidenti- fied bird	Western grebe	Western grebe				Unknown sparrow	Verdin	Western Grebe	
								Pallid bat	American avocet	Eared grebe	American avocet					Great-tailed grackle	Clapper rail	Eared grebe	Brown pelican	Cowbird	Unidenti- fied bird	Blue winged teal	Great egret				Common raven	Wilson's warbler	Western Grebe	
											Mourning dove					Red-breasted Merganser	Wilson's warbler	American coot	Black crowned night heron	Western tanager	Savannah sparrow	Mourning dove	Western grebe				Unknown hatchling (predated)	Townsend's Big Eared Bat	Western Grebe	
											American avocet					White-crowned sparrow	Western tanager	Double crested commorant	Ash throated fly catcher	Ash throated flycatcher	American coot	American coot	Western meadow lark				White-winged dove		Common loon	
																Horned lark	Lesser nighthawk	Common raven	Black headed grosbeak	Wilson's warbler		American coot					Townsend's Warbler			
																Western mastiff bat	Town-send's warbler	Double crested commorant	Tree swallow	Pied- billed grebe		Western grebe					Unidentified duck			
																	Logger head shrike	Great tailed grackle	Horned lark			Western grebe					White-faced Ibis			
																	Wilson's warbler	Mourning dove	Common poorwill			Western grebe								
																		Costa humming bird	Great tailed grackle			Western grebe								
																						Mourning dove								
																						Eared grebe								
																						American Avocet								
																						Western grebe								
																						Eared grebe								
																						American coot								
																						Sora								
																						Eared grebe								

LEGEND

Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted
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ISEGS	2012												2013												2014					
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may
Monthly Total	1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	4	6	5	8	8	42	58	12	13	25	17	55	97	81	41
	Eared grebe		Black-throated sparrow	Savannah sparrow	Western tanager		Yellow-billed Cuckoo	Lesser nighthawk	Western tanager	Pine siskin	Chipping sparrow	American coot	White-crowned sparrow	Cooper's hawk	Loggerhead shrike	Brewer's sparrow	Loggerhead shrike	White throated swift	Greater roadrunner	Lesser Nighthawk	Western tanager	House finch	Rock pigeon	American Pipit	Unknown	Western meadowlark	Anna's humming bird	House finch	Mourning dove	15 mortalities due to singe
				Yellow-rumped warbler			Cooper's hawk		American coot			Unknown	Logger head shrike			White-crowned sparrow	Unknown passerine	Lesser nighthawk	Blue-gray gnatcatcher	Common raven	Unknown	House finch	Unknown	American kestrel	Yellow-rumped warbler	Brewer's blackbird	Mourning dove	Western meadowlark	Mourning dove	0 mortalities due to collision
				American coot												Green-tailed Towhee	Horned lark	Western wood pewee	Ash-throated flycatcher	White-throated swift	Chipping sparrow	Yellow-rumped Warbler	Greater roadrunner	Northern Flicker	Greater roadrunner	House finch	Mourning dove	House finch	Yellow-rumped warbler	26 mortalities due to unknown cause
																Myotis bat	Western tanager	Common Poorwill	Northern rough winged swallow	Common raven	Unknown	Verdin	Blackbird species	Mourning dove	Common yellow throat	Loggerhead shrike	Anna's humming bird	Mourning dove	Cliff swallow	*June data provided by Brightsource
																Wilson's warbler	Greater roadrunner	Black-throated sparrow	Lazuli bunting	MacGillivray's warbler	Unknown	Yellow-rumped Warbler	American coot	Mourning dove	House finch	Anna's humming bird	Anna's humming bird	Loggerhead shrike		
																Myotis bat		Lesser nighthawk	Northern rough winged swallow	Blue-Gray Gnatcatcher	House finch	Yellow-rumped Warbler	American pipit	Brewer's blackbird	Mourning dove	Unknown	Mourning dove	Violet green swallow		
																	Black-throated sparrow	Loggerhead shrike	Brewer's sparrow	House finch	Greater roadrunner	Great tailed Grackle	Mourning dove	Greater roadrunner	Unknown	Black-throated sparrow	Cliff swallow			
																	Northern mockingbird	Myotis bat	Unknown	Wilson's warbler	Greater roadrunner	Great tailed Grackle	American kestrel	Greater roadrunner	Mourning dove	Mourning dove	Calliope humming bird			
																						Savannah sparrow	Say's Phoebe	Mourning dove	Western tanager	Mourning dove	Western meadowlark	Costa's humming bird		
																						Unknown	Yellow-rumped warbler	American Pipit	Western meadow lark	Mourning dove	Anna's humming bird	Anna's humming bird	Yellow-rumped warbler	Lesser goldfinch
																						Unknown	Blue-winged teal	Unknown	Western meadow lark	Yellow-rumped warbler	Brewer's blackbird	Costa's humming bird	Mourning dove	Violet green swallow
																						White-throated swift	Blue-winged teal	Pallid bat	Mourning dove	American kestrel	Unknown	Unknown	Barn swallow	
																						American coot	Mourning dove		Brewer's blackbird	Mourning dove	White-thrt swift	Unknown	Mourning dove	Cliff swallow
																						Cowbird	American coot		Greater roadrunner	Costa's humming bird	Mourning dove	American kestrel	Barn swallow	
																						Wilson's warbler	Lincoln's sparrow		Anna's humming bird	Anna's humming bird	Mourning dove	Mourning dove	Cliff swallow	
																						Black throated gr warbler	Unknown		American kestrel	Mourning dove	Costa's humming bird	Loggerhead shrike	Barn swallow	
																						Cassin's vireo	House finch		Rock pigeon	Western small footed myotis	Horned lark	Tree swallow	Yellow-rumped warbler	
																						House finch	American coot		Black-throated sparrow		Horned lark	Yellow-rumped warbler	Barn swallow	
																						Mourning dove	Unknown		Mourning dove		Horned lark	White-crowned sparrow	Rufous humming bird	
																						Unknown	Yellow-rumped warbler		Greater roadrunner		Violet green swallow	Brewer's sparrow	Cliff swallow	
																						Mourning dove	Unknown		Cactus wren		Violet green swallow	Yellow-rumped warbler	Nashville warbler	
																						Mourning dove	Verdin		Mourning dove		Violet green swallow	Costa's humming bird	Northern rough winged swallow	
																						Unknown	Yellow-rumped warbler		Northern Flicker		Unknown	Unknown	Bank swallow	
																						Mourning dove	Unknown		Canyon bat		Costa's humming bird	Western meadowlark	Lazuli bunting	

Entries for Sept & Oct continue on next page

Entries for January continue on next page

Entries for March, April and May continue on next page

LEGEND												
Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted

ISEGS, cont.	2012												2013												2014					
	Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may

LEGEND												
Specific location not reported	Open area	Fence	Pond	Solar array, trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub-station	Road or vehicle	Drainage channel	Construct or laydown area	Carcass surveys conducted

Costa's humming bird	Mourning dove
Costa's humming bird	Anna's humming bird
Costa's humming bird	Mexican Free-tailed bat
Townsend's warbler	California Myotis
Costa's humming bird	
Rufous humming bird	
Wilson's warbler	
Sparrow (unknown)	
Swallow (unknown)	
Rufous humming bird	
Tree swallow	
Warbler (unknown)	
Rufous humming bird	
Yellow-rumped warbler	
White-crowned sparrow	
White-crowned sparrow	
Barn swallow	
Horned lark	
Horned lark	