

**DRAFT FOR PUBLIC COMMENT: De Tilla Gulch Solar Energy Zone (SEZ): Resources, Impacts, & On-site Mitigation**

In central Saguache County, Saguache Field Office - 1,064 developable acres, up to 170 MW generation capacity.

Sources: Summarized from Draft and Final Solar PEIS for the SEZ (at: <http://blmsolar.anl.gov/sez/co/de-tilla-gulch/>), with BLM Interdisciplinary Team input.

Resource/Issue	Impacts <sup>1</sup>	Onsite Mitigation <sup>2</sup>		Residual or Unavoidable Adverse Impacts <sup>3?</sup>
		Avoidance	Minimization	
<b>Acoustics</b> Section 10.2.15 <sup>4</sup>	<p><b>Direct:</b> Increased noise levels during construction and operation of solar facilities with thermal energy storage could cause noise levels slightly exceeding the EPA guideline of 55 dBA at the nearest residences (about 0.3 mi [0.5 km] to the east), particularly for activities near the eastern SEZ boundary. The EPA guideline could also be exceeded near the southern SEZ boundary, where the Old Spanish National Historic Trail is 0.25 mi [0.4 km] away. A level of 55 dBA is similar to the noise of an air conditioning unit at 100 ft. Noise impacts during operation of PV facilities would be minimal.</p> <p><b>Indirect:</b> Based on Solar PEIS modeling, none identified.</p> <p><b>Cumulative<sup>5</sup>:</b> If multiple facilities were to be constructed close to the SEZ, residents and/or wildlife nearby could be affected by the noise generated, particularly at night when the noise is more discernible due to relatively low background levels.</p> <p><b>Data Gaps<sup>6</sup>:</b> Impacts on wildlife from construction noise needs to be considered on a project-specific basis. Refined modeling and background measurements would be needed.</p>	<p>Programmatic design features include a requirement that projects will be designed to locate solar facilities will be located far enough away from residences, or include engineering and/or operational methods such that county, state, and/or federal regulations for noise are not exceeded.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Noise.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Noise.pdf</a></p>	<p>Programmatic design features include a requirement to limit the hours of daily activities, construct noise barriers if needed and practicable, and coordinate with nearby residents.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>Additionally, recommend evaluation of construction timing restrictions in project-level NEPA alternatives to further minimize effects on wildlife (e.g., no construction during breeding season or in winter use concentration areas/critical winter range).</p>	<p>Maybe (for wildlife). Technology used and onsite mitigation implemented would be primary driver of residual impact for full build-out of SEZ.</p>

<sup>1</sup> The impacts assessment assumed 80% of the SEZ area will be used for solar development.

<sup>2</sup> Avoidance of sensitive areas of the SEZ or avoidance of activities at certain times of year. Avoidance and minimization measures that are specified in the Record of Decision for the Final Solar PEIS will be required. Additional avoidance and minimization measures could be introduced during the Solar Regional Mitigation Strategy process for identified unavoidable impacts. Monitoring is planned to verify the implementation and effectiveness of design features.

<sup>3</sup> Residual or unavoidable impacts are residual effects that cannot be adequately mitigated onsite by avoidance and/or minimization. Preliminary assessments are provided for comment.

<sup>4</sup> Section numbers are the same in both the Draft and Final Solar PEIS.

<sup>5</sup> Sections 10.2.22.4 of the Draft and Final Solar PEIS address cumulative impacts, which consider ongoing and reasonably foreseeable activities in the vicinity of the SEZ such as wind, geothermal, mining, agricultural, and commercial development; new roads, traffic, and off-highway vehicle use; and infrastructure such as transmission lines, and fences.

<sup>6</sup> Data gaps have not been identified for all resources in this table. Additional data gaps may be identified during future SEZ- or project-specific assessments.

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Air Quality Section 10.2.13	<p><b>Direct:</b> Fugitive dust and equipment exhaust emissions during construction could result in exceedance of Ambient Air Quality Standards (AAQS) for particulate matter (PM) at SEZ boundaries. Specifically, predicted 24-hour PM<sub>10</sub> concentration levels could exceed the AAQS at the nearest residence.</p> <p>Disturbance of soils (particularly subsurface calcic soils) may produce fugitive dust, which may result in exposure to respirable particulates and/or microbes (human health impacts). About 79% of soils in the SEZ have been characterized as having moderate potential for wind erosion; 21% have high potential for wind erosion. However, the SEZ is relatively small. Therefore contributions to PM load from development would likely be moderate.</p> <p><b>Indirect:</b> Decreased visibility in nearby residential (as close as 0.3 mi [0.5 km] to the east) or specially-designated areas due to elevated PM levels from soil disturbance/grading during construction. Increased PM would also increase dust-on-snow accumulation, possibly changing stream runoff patterns. If used for dust abatement, magnesium chloride could be harmful to plants (due to increased chloride ions in runoff).</p> <p><b>Cumulative:</b> Cumulative effects due to dust emissions during any overlapping construction periods would be small. Unpaved roads and agricultural practices could have cumulative impacts with respect to generation of PM. Over the long term and across the region, the development of solar energy may have beneficial impacts on air quality in the region.</p> <p><b>Data Gaps:</b> Monitoring for PM during all phases of development will be required to identify levels exceeding AAQS.</p>	<p>Programmatic design features for ecological resources include a requirement to develop a Vegetation Management Plan to maintain maximum acreage of native vegetation cover practicable during construction and operation avoid dust sources.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Air_Quality_Climate.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Air_Quality_Climate.pdf</a></p>	<p>Programmatic design features include a requirement to implement dust suppression measures during construction and operations.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>Recommend evaluation of solar panel mounting and other disturbance minimizing technologies in project-level NEPA alternatives (e.g. no grading of the site, retention of maximum native vegetation, use of low emission vehicles, placing gravel on roads, use of “drive and crush” installation). Recommend revegetation of the SEZ with native vegetation to increase soil stability as a plan of development feature to further minimize the amount of grading and surface disturbance and promote reduced dust emissions and PM levels.</p>	<p>Maybe. Level of site grading and disturbance to native vegetation would be primary driver of residual impact for full build-out of SEZ.</p>

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<b>Climate Change</b> Section 5.11.4 of DPEIS for soil storage capacity; 10.2.13 for emissions avoided	<p><b>Direct:</b> Possible impact through loss of carbon storage capacity of the soil (estimated at 100 g carbon/m<sup>2</sup>). Preliminary calculations show loss of CO<sub>2</sub> storage capacity as 1.6 tons/acre/yr (1,362 tons/yr for SEZ full build-out), less than 1% of the CO<sub>2</sub> emissions avoided by operation of a solar facility (see below).</p> <p><b>Positive impact:</b> Solar power generation reduces demand for energy from fossil fuels, and thereby reduces greenhouse gas emissions (from 164,000-295,000 tons/yr CO<sub>2</sub> avoided at full build out depending on technology).</p> <p><b>Indirect:</b> If PM is highly elevated and results in increased dust-on-snow accumulation effects of climate change may be exacerbated (through early and/or fast stream run-off coupled with decreased snowpack).</p> <p><b>Cumulative:</b> Over the long term, the development of solar energy may contribute to reduced greenhouse gas emissions, if the development offsets electricity generation by fossil fuel plants). About 90% of electricity in CO is produced in fossil fuel plants.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Programmatic design features include a requirement to develop a Vegetation Management Plan to maintain maximum acreage of native vegetation cover practicable during construction and operation to avoid dust sources.</p> <p>See other programmatic design features for vegetation at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>No</p>

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Cultural Section 10.2.17	<p><b>Direct:</b> Impacts on the low-potential segments of the Old Spanish National Historic Trail (NHT) and the West Fork of the North Branch of the Old Spanish Trail are possible.</p> <p><b>Indirect:</b> Impacts on significant cultural resources and cultural landscapes associated with high-potential segments of the Old Spanish NHT and American Latino heritage, such as within the Sangre de Cristo National Heritage Area, are possible throughout the San Luis Valley. Erosion impacts on the cultural landscape outside of the SEZ resulting from land disturbances and modified hydrologic patterns, increased accessibility and potential for damage to eligible sites outside of the SEZ (if present).</p> <p><b>Cumulative:</b> Dependent on whether eligible sites are found and impacted in the SEZ and adjacent areas.</p> <p><b>Data Gaps:</b> Pre-development cultural inventory and evaluation will be completed, as part of the Section 106 consultation process. The survey will identify archaeological sites, historic structures and features, and traditional cultural properties, and evaluate whether any are eligible for listing in the NRHP. An inventory of the location, integrity, and significance of portions of the Old Spanish Trail from which future development in the SEZ could be viewed is needed to determine whether adverse impacts on the Trail would occur.</p>	<p>Programmatic design features require that significant cultural resources clustered in specific areas which retain sufficient integrity will be avoided.</p> <p>If adverse impacts are identified on the Old Spanish National Historic Trail and/or the West Fork of the North Branch of the Old Spanish Trail as a result of a National Trail inventory, measures will be identified to prevent substantial interference and avoid any areas determined to be unsuitable for development.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Cultural.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Cultural.pdf</a></p>	<p>Programmatic design features require that a Memorandum of Agreement be developed and executed if eligible sites are discovered within the SEZ, to determine how the eligible properties will be treated (avoided or mitigated to minimize impacts).</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>Yes. Residual impacts to be evaluated based on results of Cultural Landscape Assessment analyses and coordination with stakeholders (federal, state, and local agencies, tribes, and public).</p>

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<p><b>Ecology: Vegetation and Riparian Areas; Invasive and Noxious Weeds</b> Section 10.2.10</p>	<p><b>Direct:</b> Development will adversely affect characteristic vegetation (e.g., big sagebrush, rubber rabbitbrush, winterfat, western wheatgrass, green needlegrass, blue gramma, and needle-and-thread) through destruction and loss of habitat. Sensitive habitats on the SEZ include ephemeral dry washes. Development will result in small impacts to the following land types which comprise the SEZ: Inter-Mountain Basins Semi-Desert Shrub Steppe, Inter-Mountain Basins Greasewood Flat, and Inter-Mountain Basins Semi-Desert Grassland. Development, including vegetation removal, land clearing, grading, dust deposition, and lowered groundwater levels, may alter soils and vegetation communities and result in the establishment of invasive species and noxious weeds within the SEZ.</p> <p><b>Indirect:</b> Extensive areas of palustrine wetlands with emergent plant communities are located to the north and west of the SEZ. There may be loss of native vegetation outside the SEZ due to dust deposition from construction and operations, increased surface water runoff and related erosion, or through the introduction of invasive species. Establishment of noxious weeds in the SEZ may result in spread of weeds to adjacent areas.</p> <p><b>Cumulative:</b> Solar energy development could be a contributor to cumulative impacts on some vegetation communities, depending on the type, number and location of other developments in the region.</p> <p><b>Data Gaps:</b> Colonization rates of weed species.</p>	<p>SEZ-specific programmatic design features require that all ephemeral dry wash habitats within the SEZ be avoided to the extent practicable. A buffer area will be maintained around dry washes to reduce the potential for impacts on these habitats on or near the SEZ.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf</a></p> <p>Additionally, the Vegetation Management Plan will require maintenance of the maximum acreage of native vegetation cover practicable, and compliance with applicable regulations and policies for the control of noxious weeds and invasive plant species (e.g., travel through weed-infested areas will be avoided; weeds will be treated), to maintain ecological integrity and decrease the probability of wildfires.</p>	<p>SEZ-specific programmatic design features require that appropriate engineering controls will be used to minimize impacts on wetland, dry wash, and riparian habitats, including downstream occurrences, such as those associated with Saguache Creek or San Luis Creek, resulting from surface water runoff, erosion, sedimentation, altered hydrology, accidental spills, or fugitive dust deposition to these habitats. Appropriate buffers and engineering controls will be determined through agency consultation.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>Additionally, surveying and treating invasive weeds, including henbane, should be conducted along access roads to the SEZ, and solar panel mounting and other disturbance minimizing technologies (e.g., no grading of the site) should be evaluated in project-level NEPA alternatives.</p> <p>Also, If project-specific impacts to groundwater are identified, purchase of existing water rights must be used to offset groundwater use, with additional quantities above what is projected to be used purchased so the excess water can be retired and returned to the groundwater table.</p>	<p>Yes. Level of site grading and disturbance to native vegetation would be primary driver of residual impact for full build-out of SEZ.</p>

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<p><b>Ecology:</b> <b>Terrestrial Wildlife</b> Section 10.2.11</p>	<p><b>Direct:</b> Loss of habitat and connectivity for several species of amphibians, reptiles, birds, invertebrates, and mammals including big game species (black bear, bighorn sheep, cougar, elk, mule deer, and pronghorn). Ground disturbance, fugitive dust generated by project activities, noise, lighting, vegetation clearing, spread of invasive species, accidental spills, harassment, and ephemeral stream loss could impact wildlife within the SEZ, and may cause mortalities.</p> <p><b>Indirect:</b> Outside the SEZ, impacts could occur from habitat loss or modification related to groundwater depletions, surface runoff, dust, noise, lighting, or accidental spills. Potential for adverse impacts from new roads and increased traffic. Increased noise levels in the vicinity of the SEZ could result in disruption of breeding, migration, wintering, foraging, and other behavioral activities.</p> <p><b>Cumulative:</b> If other actions in addition to SEZ solar development occurred in the vicinity, there could be cumulative impacts on wildlife and aquatic biota habitat. Where projects are closely spaced, the cumulative impact on a particular species could be moderate.</p> <p><b>Data Gaps:</b> Impacts on terrestrial wildlife from construction and operational noise would have to be considered on a project-specific basis.</p>	<p>The following SEZ-specific programmatic design features for avoidance will be required:</p> <p>Prairie dog colonies (if present) will be avoided to the extent practicable; doing so would reduce impacts on associated mammalian and avian species such as desert cottontail, burrowing owl, and thirteen-lined ground squirrel.</p> <p>Construction will be curtailed during winter when big game species are present</p> <p>Ephemeral drainages within the SEZ will be avoided to the extent practicable.</p> <p>Development will avoid any wetlands identified during site-specific fieldwork.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf</a></p>	<p>The following SEZ-specific programmatic design features for minimization will be required:</p> <p>Disruptions during lambing/calving/fawning season for big game (such as bighorn sheep/elk/pronghorn) will be minimized.</p> <p>Appropriate engineering controls will be used to minimize impacts resulting from surface water runoff, erosion, sedimentation, accidental spills, or fugitive dust deposition on aquatic, riparian, and wetland habitats associated with Saguache Creek, San Luis Creek, Rio Grande Canal, and wetland areas located within the area of indirect effects.</p> <p>The extent of habitat disturbance will be minimized within the elk critical winter range and pronghorn winter concentration area.</p> <p>Where big game winter ranges intersect or are within close proximity to the SEZ, motorized vehicles and other human disturbances will be controlled (e.g., through road closures or seasonal restrictions).</p> <p>Sediment and erosion controls will be implemented along intermittent drainages that drain toward Saguache or San Luis Creeks and the wetlands in the vicinity of the SEZ.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>Yes. Facility extent and level of site grading and disturbance to native vegetation would be primary driver of residual impact to functional habitat for full build-out of SEZ.</p>

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<p><b>Ecology:</b> <b>Migratory Birds</b> Section 10.2.11.2</p>	<p><b>Direct:</b> Loss of habitat and connectivity for several species. Noise, lighting, and vegetation clearing could impact migratory birds overflying, migrating, or using the SEZ or nearby wetlands. There is potential for migratory birds to be attracted to solar arrays (because solar arrays may appear to be water or wetlands, and may attract insects), resulting in collisions with solar arrays that cause injury or fatalities. Migratory birds may be behaviorally susceptible to flight collision with solar arrays in the San Luis Valley wetlands landscape. Avian injury or fatality from collision with solar arrays is a particular risk at DeTilla Gulch SEZ due to the location of the SEZ in migratory paths. For power tower facilities, burning of wings in the solar radiation field between heliostats and power towers has been observed.</p> <p><b>Indirect:</b> Outside the SEZ, impacts could occur from habitat loss or modification related to groundwater depletions, or habitat loss or modification through the introduction of invasive species. Establishment of noxious weeds in the SEZ may result in spread of weeds to adjacent areas. Increased noise levels in the vicinity of the SEZ could result in disruption of breeding, migration, wintering, foraging, and other behavioral activities.</p> <p><b>Cumulative:</b> Impacts to migratory birds could occur; depending on the number and location of other developments in the region.</p> <p><b>Data Gaps:</b> Additional research needed on solar development impacts on migratory birds; impacts on migratory birds from construction and operational noise would have to be considered on a project-specific basis.</p>	<p>SEZ-specific programmatic design features require that if present prairie dog colonies (which could provide habitat or food resources for some bird species) will be avoided to the extent practicable; doing so would reduce impacts on associated bird species such as raptors.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf</a></p>	<p>SEZ-specific programmatic design features require that appropriate engineering controls will be used to minimize impacts resulting from surface water runoff, erosion, sedimentation, accidental spills, or fugitive dust deposition on aquatic, riparian, and wetland habitats associated with Saguache Creek, San Luis Creek, Rio Grande Canal, and wetland areas located within the area of indirect effects.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>Additionally, recommend evaluation of construction timing restrictions in project-level NEPA alternatives to further reduce impacts. Timing limitation should be enforced from May 15-July 15 for any surface disturbing activities to protect migratory bird nesting and brood rearing,</p> <p>Raptor nest surveys should be conducted within a 0.5 mile radius of the project site. If any raptor nests are located, appropriate timing limitations should be applied.</p> <p>Migratory bird monitoring in the DeTilla Gulch SEZ should be conducted.</p>	<p>Yes. Level of site grading and disturbance to native vegetation would be primary driver of residual impact for full build-out of SEZ.</p>

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<p><b>Ecology:</b>  <b>Plant Special Status Species</b>            Section 10.2.12</p>	<p><b>Direct:</b> Ground disturbance, land clearing and grading, fugitive dust generated by project activities, and the spread of invasive species would result in loss of special status plant species habitat, if present, and might result in loss of individual plants. See also impact summary above under <b>Vegetation and Riparian Areas</b>. No Endangered Species Act (ESA)-listed or BLM-listed plant species have been identified that have suitable habitat within the SEZ.</p> <p><b>Indirect:</b> Indirect impacts to individuals and habitat could occur from groundwater depletions, surface runoff, dust, or accidental spills. No Endangered Species Act (ESA)-listed plant species have been identified to have indirect impacts from solar development. BLM local biologists indicate that rock-loving aletes, a BLM-sensitive species, may have suitable habitat within 5 mi (8 km) of the SEZ.</p> <p><b>Cumulative:</b> There could be cumulative impacts on some special status plant species due to habitat destruction and overall development and fragmentation of the area.</p> <p><b>Data Gaps:</b> Although habitat for listed species has not been identified within the SEZ, pre-disturbance surveys are required to identify the presence and abundance of special status species.</p>	<p>The following programmatic design features for avoidance will be required:</p> <p>Based on data from pre-disturbance surveys, disturbance to occupied habitats will be avoided to the extent practicable per BLM Manual 6840.</p> <p>Disturbance of wetland and riparian habitat within the SEZ will be avoided or minimized to the extent practicable.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resource_s.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resource_s.pdf</a></p> <p>See also avoidance measures listed for Vegetation and Riparian Areas, which would apply for Plant Special Status Species as well.</p>	<p>The following programmatic design features for minimization will be required:</p> <p>If avoidance is not possible for some species, translocation of individuals from areas of direct effects or compensatory mitigation (for example, through seed collection or reseeding at an appropriate offsite location) may be employed.</p> <p>Groundwater withdrawals will be avoided or limited to reduce impacts on groundwater-dependent special status species, including those species that may occur in riparian or aquatic habitats supported by groundwater.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>See also minimization measures listed for Vegetation and Riparian Areas, which would apply for Plant Special Status Species as well.</p>	<p>Maybe. Level of site grading and disturbance to native vegetation would be primary driver of residual impact for full build-out of SEZ.</p>

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<p><b>Ecology:</b> <b>Animal Special Status Species</b> Section 10.2.12</p>	<p><b>Direct:</b> Ground disturbance, land clearing and grading, and fugitive dust generated by project activities would result in loss of special status animal species habitat, if present, and might result in loss of individual animals. See also impact summaries above under <b>Terrestrial Wildlife</b> and <b>Migratory Birds</b>. Development on the SEZ could directly disturb individuals or habitat for seven BLM-Colorado sensitive special status animal species (including western burrowing owl and Gunnison prairie dog).</p> <p><b>Indirect:</b> Indirect impacts to individuals and animal habitat outside of the SEZ could occur due to groundwater depletions, surface runoff, dust, noise, lighting, or accidental spills. Potential for adverse impacts from new roads and increased traffic. Suitable habitat for three additional ESA-listed endangered or candidate/proposed endangered species (Southwestern willow flycatcher, western yellow-billed cuckoo, and Gunnison sage-grouse) and four additional BLM-sensitive animal species occurs within 5 mi (8 km) of the SEZ boundary.</p> <p><b>Cumulative:</b> There could be cumulative impacts on some special status animal species due to habitat destruction and overall development and fragmentation of the area.</p> <p><b>Data Gaps:</b> Pre-disturbance surveys are required to identify the presence and abundance of special status species.</p>	<p>The following programmatic design features for avoidance will be required:</p> <p>Based on data from pre-disturbance surveys, disturbance to occupied habitats will be avoided to the extent practicable per BLM Manual 6840.</p> <p>Disturbance of wetland and riparian habitat within the SEZ will be avoided or minimized to the extent practicable.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Ecological_Resources.pdf</a></p> <p>See also avoidance measures listed for Terrestrial Wildlife and Migratory Birds, which would apply for Animal Special Status Species as well.</p>	<p>The following programmatic design features for minimization will be required:</p> <p>If avoidance is not possible for some species, augmentation, reintroduction, or translocation of individuals from areas of direct effects or compensatory mitigation may be employed.</p> <p>Groundwater withdrawals will be avoided or limited to reduce impacts on groundwater-dependent special status species, including those species that may occur in riparian or aquatic habitats supported by groundwater.</p> <p>Consultations with the USFWS and CO Division of Wildlife will be conducted to address the potential for impacts on the Gunnison's prairie dog.</p> <p>See other programmatic design features at URL under Avoidance column.</p> <p>See also minimization measures listed for Terrestrial Wildlife and Migratory Birds, which would apply for Animal Special Status Species as well.</p>	<p>Yes. Facility extent and level of site grading and disturbance to native vegetation would be primary driver of residual impact to functional habitat for full build-out of SEZ.</p>

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		Avoidance	Minimization	
<b>Environmental Justice</b> Section 10.2.20	<p><b>Direct:</b> Disturbance of soils (particularly subsurface calcic soils) may produce fugitive dust, which may result in exposure to respirable particulates and/or microbes (human health impacts).</p> <p>Based on guidelines from the Council on Environmental Quality, there are low-income and minority populations within a 50-mile (80-km) radius and potentially downwind of the SEZ. Adverse health impacts to low-income and/or minority communities could result from degraded air quality and increased exposure to particulates generated at the SEZ by solar development.</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> Contributions from solar development would likely be small, and would not be expected to significantly contribute to cumulative impacts on minority and low income populations within the 50-mi geographic extent of effects.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Programmatic design features for ecological resources include a requirement to develop a Vegetation Management Plan to maintain maximum acreage of native vegetation cover practicable during construction and operation to avoid dust sources.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Environmental_Justice.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Environmental_Justice.pdf</a></p>	<p>Programmatic design features for air quality include a requirement to implement dust suppression measures during construction and operations.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>Maybe (dependent on level of exposure of sensitive populations to fugitive dust generated by solar development).</p>

<p><b>Hydrology: Surface Water and Water Quality</b> Section 10.2.9</p>	<p><b>Direct:</b> Land clearing, land leveling, vegetation removal, and spills and runoff associated with development of the SEZ have the potential to alter flow routing, change surface runoff, reduce infiltration/recharge, cause loss of ephemeral stream networks, reduce evapotranspiration rates, increase sediment transport (by water), change sediment transport (by wind), and degrade water quality.</p> <p>No permanent surface water bodies are located within the De Tilla Gulch SEZ. Several intermittent/ephemeral drainages cross the area from the northwest to the southeast and may be subject to intermittent flooding.</p> <p><b>Indirect:</b> Indirect impacts from development and groundwater use on ephemeral and perennial surface water features could occur.</p> <p><b>Cumulative:</b> Alterations to ephemeral stream networks can alter groundwater recharge and surface runoff processes potentially impacting the basin-scale water balance and water quality aspects of water features receiving surface runoff.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Programmatic design features for ecological resources include a requirement to develop a Vegetation Management Plan to maintain maximum acreage of native vegetation cover practicable during construction and operation, and to minimize land disturbance in ephemeral washes and dry lakebeds.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Water.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Water.pdf</a></p> <p>Additionally, to avoid any impact to downstream properties, project-level NEPA alternatives should evaluate maintenance of existing flow patterns at the site boundary, by providing detention and/or retention facilities. Detention can be provided on the SEZ to capture the volume of flow that is represented by the increase between existing and proposed conditions. Retention would be utilized to capture all the additional flow volume analysis with little to no overland surface water release.</p> <p>See additional surface water impact avoidance measures including detention and retention facility location recommendations and Master Drainage Plan in BLM Solar Energy Zone Hydrology – DeTilla Gulch SEZ (TetraTech, April 2014)</p>	<p>See programmatic design features at URL under Avoidance column.</p> <p>Additionally, all release points along the SEZ boundary should be designed to avoid erosion. Along County Road AA, all release points will require a new culvert, bridge crossing or a dip crossing.</p> <p>See additional surface water impact minimization measure recommendations in BLM Solar Energy Zone Hydrology – DeTilla Gulch SEZ (TetraTech, April 2014)</p>	<p>Maybe. Dependent on level of retention of native plant cover.</p>	<p>Maybe. Findings to be confirmed with results of Landscape Assessment conservation element analyses.</p>
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<p><b>Hydrology: Groundwater Quality and Groundwater Availability Section 10.2.9</b></p>	<p><b>Direct:</b> De Tilla Gulch SEZ is located in the Rio Grande Headwaters sub-basin. Groundwater withdrawals for development may cause declines in groundwater elevations that can impact water availability for surface water features, vegetation, ecological habitats, regional groundwater flow paths, and other groundwater users in the basin.</p> <p>Spills associated with development of the SEZ have the potential to degrade groundwater quality.</p> <p><b>Indirect:</b> Groundwater withdrawals for solar energy facilities have the potential to affect other groundwater users in the basin.</p> <p><b>Cumulative:</b> Groundwater depletion has continued in the San Luis Valley aquifer system since 1950 due to withdrawal for agricultural and other purposes. Groundwater use for solar energy development may result in additional use of groundwater. However, the strict management of water resources in the Rio Grande Basin acts to ensure that any impacts from a new water use would continue to be equivalent to or less than those from current uses and that no net increase in the total amount of water used would occur.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Water.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Water.pdf</a></p> <p>Additionally, if project-specific impacts to groundwater are identified, purchase of existing water rights must be used to offset groundwater use, with additional quantities above what is projected to be used purchased so the excess water can be retired and returned to the groundwater table.</p> <p>See additional groundwater impact avoidance measures in BLM Solar Energy Zone Hydrology – DeTilla Gulch SEZ (TetraTech, April 2014)</p>	<p>Programmatic design features regarding intermittent/ephemeral water bodies and storm water management emphasize the need to maintain groundwater recharge for disturbed surface water features within the De Tilla Gulch SEZ.</p> <p>Augmentation/compensation is required by the State of Colorado.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>Maybe, depending on compensation requirements.</p>	<p>Maybe. Findings to be confirmed with results of Landscape Assessment conservation element analyses and consultation with Colorado Department of Natural Resources</p>
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<p><b>Lands &amp; Realty</b> Section 10.2.2</p>	<p><b>Direct:</b> Development of the SEZ could disturb 1,064 acres (4.3 km<sup>2</sup>). Rights-of-way authorizing different uses have been granted by BLM on the public lands within the SEZ, including two 115-kV power lines, a county road, and a fiber optic line. A BLM-designated transmission corridor covers most of the SEZ. The SEZ boundary will isolate an area of about 458 acres (1.9 km<sup>2</sup>) between the SEZ and the highway, fragmenting the public land in the area and making the isolated public land parcel more difficult to manage.</p> <p><b>Indirect:</b> Increased traffic and increased access to previously remote areas also could change the overall character of the landscape.</p> <p><b>Cumulative:</b> The contribution to cumulative impacts of utility-scale solar projects on public lands on and around the De Tilla Gulch SEZ could be significant, particularly if the SEZ is fully developed with solar projects.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Lands_and_Realty.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Lands_and_Realty.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>No</p>	<p>No</p>
<p><b>Livestock Grazing</b> Section 10.2.4.1</p>	<p><b>Direct:</b> Solar development within the SEZ would cancel the Crow Allotment. The allotment has not been grazed by the permittee for about 10 years because of inadequate fencing to control livestock movement. One well is present. However, the permittee would lose the ability to sell the allotment. The county would lose tax revenues (minor impact), and BLM would also lose some revenue.</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> Other development in the area of the SEZ could result in cumulative impacts on grazing.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Rangeland_Resources.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Rangeland_Resources.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Maybe. Residual impacts to be evaluated based on locations of development within the SEZ and project-level NEPA.</p>	<p>Maybe (project design features may address impacts)</p>

<p><b>Military &amp; Civilian Aviation</b> Section 10.2.6</p>	<p><b>Direct:</b> The SEZ is located under a Special Use Airspace (SUA) and is identified by the BLM as an area of required consultation with the Department of Defense. In comments on the Solar PEIS, the military indicated that at that time it had no concerns about potential impacts on its activities associated with solar development.</p> <p>The SEZ is also located about 8 mi (12 km) from the Saguache Municipal Airport.</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> Cumulative impacts would be small.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Military_Civilian_Aviation.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Military_Civilian_Aviation.pdf</a></p>	<p>Coordination with the military will be required on a project-specific basis to ensure that solar facilities do not interfere with operations.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>No</p>	<p>No</p>
<p><b>Minerals</b> Section 10.2.8 and Section 10.2.24 of the Final PEIS</p>	<p><b>Direct:</b> The SEZ does not contain existing oil and gas leases, mining claims, or geothermal leases. The SEZ has been withdrawn from receiving new mining claims for a period of 20 years, precluding impacts from many types of mining activities.</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> None identified.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Not applicable</p>	<p>Not applicable</p>	<p>No</p>	<p>No</p>

<p><b>Native American Concerns</b> Section 10.2.18</p>	<p><b>Direct:</b> It is likely that some plants traditionally important to Native Americans will be destroyed and that habitat of traditionally important animals will be lost. No direct impacts from disturbance during project development would likely occur to known culturally significant areas (i.e., San Luis Lakes, the Great Sand Dunes, and Blanca Peak).</p> <p><b>Indirect:</b> Indirect visual and auditory impacts are possible. For example, it is possible that there will be Native American concerns about potential visual effects and the effects of noise from solar energy development in the SEZ on Blanca Peak. General habitat loss with vegetation clearing and water reduction could affect species and ecosystem health.</p> <p><b>Cumulative:</b> It is possible that the development of utility-scale solar energy projects in the SEZ, when added to other potential projects likely to occur in the area, could contribute cumulatively to visual impacts in the valley as viewed from Blanca Peak and to the loss of traditionally important plant species and animal habitat.</p> <p><b>Data Gaps:</b> Government-to-government consultation will be required to determine issues of Native American concern.</p>	<p>The following SEZ-specific programmatic design features for avoidance will be required:</p> <p>Known human burial sites and rock art (panels of petroglyphs and/or pictographs) will be avoided. Where there is a reasonable probability of encountering undetected human remains and associated funerary objects by a solar project, the BLM will carry out discussions with Indian tribes before the project is authorized, in order to provide general guidance on the treatment of any cultural items that might be exposed.</p> <p>Visual intrusion on sacred sites will be avoided to the extent practicable.</p> <p>Springs and other water sources that are or may be sacred or culturally important will be avoided to the extent practicable. Culturally important plant and wildlife species will be avoided to be extent practicable. Culturally important plant and wildlife species will be avoided to be extent practicable.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Native_American_Concerns.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Native_American_Concerns.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Yes. Residual impacts to be evaluated based on results of Cultural Landscape Assessment analyses and coordination with tribes.</p>	<p>Unknown at this time. Consultation on project applications will determine whether regional mitigation for Native American Concerns may be warranted.</p>
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<p><b>Paleontology</b> Section 10.2.16</p>	<p><b>Direct:</b> There is some potential that the Alamosa Formation is present. Direct impacts are possible, but none have been identified at this time (see Data Gaps).</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> Cumulative impacts would be dependent on whether significant resources are found within the SEZ and in additional project areas in the region.</p> <p><b>Data Gaps:</b> A more detailed look at the geological deposits is necessary to determine whether a paleontological survey is warranted. The PFYC for Quaternary gravels is Class 3b, which indicates that the potential for significant fossil materials to occur is unknown and needs to be investigated further.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Paleo.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Paleo.pdf</a></p>	<p>Programmatic design features require that the BLM will be notified immediately upon discovery of fossils. Work will be halted at the fossil site and continued elsewhere until qualified personnel, such as a paleontologist, can visit the site, determine the significance of the find, and, if significant, make site specific recommendations for collection or other resource protection.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>No</p>	<p>No</p>
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<p><b>Recreation</b> Section 10.2.5</p>	<p><b>Direct:</b> Solar development will preclude current recreational activities that may occur within the SEZ boundary. There are no OHV Open Areas or Designated Routes within the SEZ, although there may be limited use of dirt roads within the area for backcountry driving which would be lost with solar development. There may be some occasional use of the area by small game hunters. Only a small impact to pronghorn antelope hunting is likely because only a small portion of available habitat occurs within the SEZ. Lost recreation opportunities can readily be replaced at nearby locations.</p> <p><b>Indirect:</b> Indirect effects could occur on lands near the solar facilities or on viewsheds of surrounding areas and would result from the change in the overall character of undeveloped BLM-administered lands to an industrialized, developed area, displacing people who are seeking more rural or primitive surroundings for recreation. Great Sand Dunes National Park and Preserve, the Old Spanish National Historic Trail, the Los Caminos Antiguos Scenic Byway, the proposed Cochetopa Scenic Byway, the Sangre de Cristo Mountains, three national wildlife refuges, and numerous designated wilderness areas are among the highlights of the recreational and tourism opportunities of the area.</p> <p><b>Cumulative:</b> Multiple developments in the vicinity of the SEZ could cumulatively reduce recreational opportunities.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Public_Access_and_Recreation.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Public_Access_and_Recreation.pdf</a></p>	<p>SEZ-specific programmatic design features require that as projects are proposed for the SEZ, the potential impacts on tourism will be considered and reviewed with local community leaders.</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>No</p>	<p>No</p>
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<p><b>Socioeconomics</b> Section 10.2.19</p>	<p><b>Direct:</b> Impacts to local economy as a result of expenditures of wages and salaries and the collection of state sales and income taxes. From 35 to 666 direct construction jobs and 2 to 53 direct operations jobs could be created (least for PV; most for parabolic trough facilities). Adverse impacts could occur due to the need for services for new workers during project construction and operation (e.g., housing, police, fire-fighters).</p> <p><b>Indirect:</b> From 25 to 323 indirect construction jobs and 1 to 18 indirect operations jobs could be created. Positive impacts from project wages and salaries, and tax revenues subsequently circulating through the economy would be minor.</p> <p>The allotment that overlaps the SEZ is not currently used. However, loss of livestock grazing could result in the future loss of jobs and a decline in grazing fees payable to the BLM and the county.</p> <p><b>Cumulative:</b> Impacts overall would be positive, through the creation of additional jobs and income. The negative impacts, including some short-term disruption of rural community quality of life, would not likely be considered large enough to require specific mitigation measures.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Socioeconomics.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Socioeconomics.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Maybe for grazing impacts, depending on mitigation measures implemented on the basis of project-level NEPA.</p>	<p>Maybe, depending on mitigation measures implemented on the basis of project-level NEPA</p>
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<p><b>Soils/Erosion</b> Section 10.2.7</p>	<p><b>Direct:</b> Impacts on soil resources would occur mainly as a result of ground-disturbing activities (e.g., grading, excavating, and drilling), especially during the construction phase of a solar project. These include soil compaction, soil horizon mixing, soil erosion and deposition by wind, soil erosion by water and surface runoff, sedimentation, and soil contamination. Soils within the SEZ are gravelly to gravelly sandy loams of the Rock River and Graypoint Series, which together make up about 75% of the soil coverage at the site. Soil contamination from spills could occur.</p> <p>Disturbance of soils (particularly subsurface calcic soils) may produce fugitive dust. About 79% of soils in the SEZ have been characterized as having moderate potential for wind erosion; 21% have high potential for wind erosion. Therefore, increased wind erosion may be moderate to high if grading occurs.</p> <p><b>Indirect:</b> Disturbance of soil can lead to introduction of invasive species. . Elevated PM levels could result from soil disturbance/grading activities during construction.</p> <p><b>Cumulative:</b> Cumulative impacts would occur from the disturbance of several large renewable energy projects, connecting linear facilities, and other projects in the vicinity of the SEZ, but would limited through the application of design features.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Programmatic design features for ecological resources include a requirement to develop a Vegetation Management Plan to maintain maximum acreage of native vegetation cover practicable during construction and operation to avoid dust sources.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Soil_Geologic_Hazards.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Soil_Geologic_Hazards.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Yes. Level of site grading would be primary driver of residual impact for full build-out of SEZ.</p>	<p>Yes, basic component of ecosystem. Findings to be confirmed with results of Landscape Assessment conservation element analyses.</p>
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<p><b>Specially Designated Areas and Lands with Wilderness Characteristics</b> Section 10.2.3</p>	<p><b>Direct:</b> Specially designated areas (SDAs) within 25 miles (40 km) of the SEZ that could be impacted by solar development include the following: Black Canyon WSA, Continental Divide National Scenic Trail, Sangre de Cristo Wilderness Area, and several U.S. Forest Service roadless areas, Great Sand Dunes National Park, Preserve, and Wilderness, Baca National Wildlife Refuge, Old Spanish National Historic Trail, Penitente Canyon SRMA, and the Sangre de Cristo National Heritage Area. Impacts could include adverse visual effects on the viewshed (including impacts on night sky viewing, and annoyance from glint and glare), reduced recreation use, fragmentation of biologically linked areas, and loss of public access.</p> <p>Because the Old Spanish National Historic Trail is within 0.25 mi (0.4 km) of the SEZ, it is anticipated that solar development on the SEZ would impact the Trail. The magnitude of these impacts (primarily visual) would depend on the integrity and historical significance of the segment of the Trail from which solar development could be seen.</p> <p>The other SDAs are distant from the SEZ and only minor impacts on their viewsheds would be associated with SEZ development. The Baca National Wildlife Refuge function relies on water availability, and so water use by solar technologies is a concern. However, water use is controlled (see Hydrology: Groundwater Availability).</p> <p>A recently maintained inventory of wilderness characteristics of public lands within the SEZ found that these lands do not contain wilderness characteristics</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> Development of solar facilities and other facilities may result in cumulative effects, particularly visual impacts on SDAs.</p> <p><b>Data Gaps:</b> Additional data from key observation points in specially designated areas is needed.</p> <p>For projects in the De Tilla Gulch SEZ that are located within the viewshed of the Old Spanish Trail, a National Trail inventory will be required to determine the area of possible adverse impact.</p>	<p>See programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/SDAs_and_LWC.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/SDAs_and_LWC.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Maybe (for Old Spanish National Historic Trail). Residual impacts to be evaluated based on locations of development within the SEZ and project-level NEPA.</p>	<p>Maybe. Findings to be confirmed with results of additional ongoing analysis of impacts at key observation points.</p>
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<p><b>Transportation and Public Access</b> Sections 10.2.2 and 10.2.21</p>	<p><b>Direct:</b> Development will add traffic to existing roads serving the area. U.S. 285 provides a regional traffic corridor that could experience moderate impacts for construction of single projects. This would represent up to approximately two times the traffic for U.S. 285, or up to approximately three times the amount of traffic currently using State Highway 17. Local roads would also be impacted.</p> <p>Glint and glare from solar facilities may affect aircraft pilots, motorists on nearby roads, or crew/passengers on nearby railways.</p> <p><b>Indirect:</b> Potential for adverse impacts to wildlife from new roads and increased traffic (see Ecology-Wildlife section).</p> <p><b>Cumulative:</b> Cumulative impacts to traffic could occur with multiple developments in the region.</p> <p><b>Data Gaps:</b> None identified.</p>	<p>Programmatic design features for visual resources include a requirement to minimize glint and glare.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Transportation.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Transportation.pdf</a></p>	<p>The following SEZ-specific programmatic design features for minimization will be required:</p> <p>Public access to roads will be maintained through transportation management plan.</p> <p>Local roads improvements will be made to accommodate additional traffic.</p> <p>Construction activities will be planned to minimize impacts (e.g., send trucks in tandem).</p> <p>See other programmatic design features at URL under Avoidance column.</p>	<p>No</p>	<p>No</p>
<p><b>Visual</b> Section 10.2.14</p>	<p><b>Direct:</b> The Visual Resource Inventory (VRI) values for the SEZ and immediate surroundings are VRI Class III, indicating moderate visual values. Impacts could include adverse visual effects on the viewshed (including impacts on night sky viewing and annoyance from glint and glare).</p> <p>The Solar PEIS identified strong visual contrasts for the SEZ itself, along the Old Spanish National Historic Trail, and on U.S. 285, part of which is also the proposed Cochetopa Scenic Byway.</p> <p><b>Indirect:</b> None identified.</p> <p><b>Cumulative:</b> If several projects become visible from one location or in succession as viewers move through the landscape (such as driving on local roads, these cumulative impacts may make the area less visually appealing.</p> <p><b>Data Gaps:</b> Additional data from key observation points is needed.</p>	<p>SEZ-specific programmatic design features state that the development of power tower facilities within the SEZ should be prohibited.</p> <p>Additionally, there is a requirement to minimize glint and glare.</p> <p>See other programmatic design features at <a href="http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Visual.pdf">http://blmsolar.anl.gov/documents/docs/peis/programmatic-design-features/Visual.pdf</a></p>	<p>See programmatic design features at URL under Avoidance column.</p>	<p>Yes</p>	<p>Yes. Findings to be confirmed with results of additional ongoing analysis of impacts at key observation points.</p>

<b>Wild Horses and Burros</b> Section 10.2.4.2	There are no designated wild horse and burro herds present in the areas. There would be no effect on designated wild horse and burro herds from solar energy development of the SEZ.  <b>Data Gaps:</b> None identified.	Not applicable	Not applicable	No	No
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