

Ground Stabilization for

Solar Array Sites

with the EMC SQUARED[®] System





There are many types of construction applications where long term stabilization is required for compacted layers of soil that will remain permanently exposed to the effects of weather.. While EMC SQUARED® System products are often used to construct stabilized dirt roads, or stabilized subgrades that function as all-weather working platforms for extended periods of time, there are other applications where areas of exposed soil that will not be covered by pavement or vegetation must be armoured to resist the effects of weather rather than motorized traffic. Examples would be the final closure of earth covered landfill cells in desert

environments, the stabilization of construction sites affected by long term delays after site grading has been completed, and the stabilization of large sites in preparation for a solar array installations that will convert solar energy into direct current electricity via the photovoltaic effect.

As renewable energy is now being actively promoted for the generation of clean energy, solar array sites are being planned with increasing frequency and at larger scale. Economical methods of soil stabilization have become very important for large solar array projects, and EMC SQUARED System





Photo by Mark Andrews, Veizades & Associates

treatments set the standard. Unlike expensive erosion control spray products, which must be applied on a frequent basis, environmentally friendly EMC SQUARED® System liquid treatments are mixed in and compacted according to strict engineering supervision and quality control procedures. These treatments provide the most cost-effective solution for long term stabilization and erosion control requirements.

Pictured here is a solar array in Northern California. The site was first graded and contoured, then treated with the EMC SQUARED System stabilizer application to a six inch

(150 mm) depth. The stabilized layer was drilled so that the feet of the solar array racks could be secured in concrete. The photovoltaic modules were then mounted. This solar array site generates approximately one megawatt of electric power, enough to power approximately 1000 homes without the 3,000,000 pounds of carbon dioxide emissions that would be generated by a conventional fossil fuels burning power plant producing the same amount of electricity



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Photos by Mark Andrews, Veizades & Associates



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