

## ADOT P3 Solar Project

In efforts to decrease electrical costs and to convert to a sustainable, eco-friendly source of power, ADOT is seeking possible solutions to utilize solar power for its facilities. As a starting point, ADOT has two major facilities; the Deck Park Tunnel and a large ADOT Phoenix Equipment Services Facility that need, and utilize a significant amount of power. The Deck Park Tunnel currently consumes approximately 3.511 million KWH annually to operate its tunnel lighting and exhaust fans. ADOT's Phoenix Equipment Services facility is comprised of three large buildings: Building 1754- the Light Duty Shop with 43,450 square feet of roof space, Building 1755 – the Heavy Duty Shop with 33,872 square feet of roof space and Building 1756 – the Utility Building with 4,560 square feet of roof space as well as open space which could accommodate solar panels that could generate electricity for the operation of the machinery, lighting and HVAC for the complex. The ADOT Phoenix Equipment Services utilized approximately 1.571 million KW H in FY 2010. In addition, ADOT is also interested in the possibility of utilizing its ROW throughout the state for possible solar power generation. The purpose of this project is to seek a possible solution(s) to producing solar power to reduce dependency on electrical power and costs for its large facilities. The project could include all or a portion of the potential projects listed below for consideration or other alternatives that are proposed.

There potential projects include:

- Solar generation for the Deck Park Tunnel to provide power for both the lighting and tunnel exhaust fans.
- Solar generation for the ADOT Phoenix Equipment Services buildings located at 22<sup>nd</sup> Avenue and Hilton and potentially the Traffic Management Center that is located in close proximity to the maintenance facility.
- Statewide solar project that would use available ADOT ROW throughout the state to generate solar power to lease to a solar provider in return for a lease payment for the land.
- Solar generation for its ADOT's administration facilities located in downtown Phoenix.
- The City of Chandler Park and Ride lot located at Germann Rd and Hamilton Street which is operated by the City of Chandler has some infrastructure in place to support solar generation.