



# County of El Dorado

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*Chief Administrative Office*

*Parks Division*

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330 Fair Lane  
Placerville, CA 95667-4197

Phone (530) 621-5360  
Fax (530) 642-0301

Larry Combs  
Chief Administrative Officer

December 17, 2015

Adam Baughman  
Air Quality Management District  
330 Fair Lane  
Placerville, CA 95667  
530.621.7578

**Subject: AB 2766 2016 & 2017 Motor Vehicle Emission Reduction Project**

Dear Adam,

Please find the two attached copies of El Dorado County Parks and Trails proposal to purchase two Zero Electric motorcycles to replace two quads using \$24,000 of AB 2766 funds. These motorcycles will be used to patrol the SPTC corridor and various other trails within El Dorado County by the Sheriff's department.

We greatly appreciate your consideration and the opportunity to help provide an environmentally friendly solution to addressing this very sensitive area. If you have any questions please let me know.

Sincerely,

A handwritten signature in blue ink that reads "Vickie Sanders".

Vickie Sanders  
Parks Manager  
330 Fair Lane  
Placerville, CA 95667  
530.621.7538

# PROJECT SUMMARY

**Applicant:** El Dorado County Parks and Trails  
**Contact Person:** Vickie Sanders  
**Address:** 330 Fair Lane, Placerville CA. 95667  
**Telephone:** 530.621.7538                      **FAX:** 530.642.0301  
**Email:** Vickie.sanders@edcgov.us

**Project Description:**

This project will provide zero-emissions motorcycles to assist the El Dorado County Sheriff's Department patrol the SPTC corridor (26 miles of rails and trails) and other recreational areas within El Dorado County.

These zero-emission motorcycle's will be replacing two 2003 Kawasaki Prairie 360 quads that been historically used for similar operations. Besides a substantial reduction in tail pipe emissions, by having a smaller footprint these motorcycles will produce less dust, further reducing airborne emissions.

The Zero FX ZF6.5 motorcycles with the Law Enforcement package provide several benefits to the county and the community as a whole. Besides being zero emissions, they are almost silent, which will not only assist with Law Enforcement activities, but also enhance the recreational enjoyment of the community and reduce nuisance noise for nearby residents. The Law Enforcement package includes factory equipped lights and sirens, allowing for "turnkey" usage with factory warranty and support.

<b>Estimated Emission Reductions/Cost-Effectiveness</b>	
Useful Life of Project (years)	10
Total Lifetime Emissions Reduced (lbs. of ROG, NOx, PM-10)	60
Cost-Effectiveness (total project costs)*	\$553.63 per lb.
Cost-Effectiveness (AQMD Funded project costs)*	\$442.91 per lb.

\* See Attachment 3 for instructions

<b>Budget Summary</b>	<b>AB 2766 Funds</b>	<b>Matching Funds</b>	<b>In-Kind Match</b>	<b>Total Project Costs</b>
Materials	\$24,000	<b>\$6,000</b>	\$	<b>\$30,000.00</b>
Personnel	\$	\$	\$	\$
Other	\$	\$	\$	\$
<b>TOTAL</b>	<b>\$24,000</b>	<b>\$6,000</b>	<b>\$</b>	<b>\$30,000.00</b>

**BUDGET ITEMIZATION**

Expand Table as necessary to itemize all expenditures

Line Item	Title/Classification	No. Of Hours	Salary Rate	Benefit %	Total	Total Costs
Personnel						
Contracts (removal, transportation, disposal)						
Materials & Supplies			\$15,000 per motorcycle x 2 motorcycles			\$30,000.00
Equipment Rental						
Other Costs						

**PROJECT GRAND TOTAL: \$ 30,000.00**

# CONTENTS CHECKLIST

Applicant: **El Dorado County Parks and Trails**

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Request for Proposal Contents Checklist (Second Page) – page 3

Authorization Letter/Resolution page 6-7

Project Description – page 4

Project Organization/Background – page 4

Emission Benefits/Cost Effectiveness – page 4 & 8  
(*Must utilize **May 2013** Emission Factors*)

Work Statement – page 4

Funding Request/Cost Breakdown – page 5

Matching Funds – page 5

Schedule of Deliveries/Self-Monitoring Program – page 5

Local TRPA Review – N/A

2 Copies of Proposal Enclosed

**PROJECT DESCRIPTION**

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**PROJECT ORGANIZATION**

This project will be administered by El Dorado County Parks and Trails. The primary user of the proposed equipment is El Dorado County Sheriff’s Department.

**PROJECT BACKGROUND**

The SPTC corridor was adopted by the county in order to help preserve El Dorado counties rich rail history and to provide recreational opportunities for residents and visitors alike. The corridor is not only used for excursion rail activities, but also mountain biking, walking/jogging, and equestrian riding. What the corridor is not intended for is motorized off-road activities. To prevent this unauthorized use, El Dorado County Parks and Trails has requested that El Dorado County Sheriff’s Department provide Off-Highway Vehicle patrols of various sections of the 26 mile corridor. In order to facilitate this request, El Dorado County Parks and Trails has secured grant funding to help cover the salaries of Law Enforcement Officers involved in this effort.

**EMISSIONS BENEFITS / COST EFFECTIVENESS**

The emissions benefits are based on 3,500 annual miles per year, 7,000 miles total. At this point we do not have historical data for this project since it’s a new program. However, based on current patrol budgeting for the SPTC corridor and similar missions, we believe this is an accurate representation of the mileage to be used. In the automated calculations, a standard on road light duty vehicle was chosen as the base emissions comparison.

Please see page 8 for calculation summary sheets from CARB automated method Access database.

**WORK STATEMENT**

<b>Task 1: Project Initiation</b>	<b>DATE</b>	<b>COMPLETED</b>
1.1 Execute Agreement with AQMD	March 2016	<input type="checkbox"/>
1.2 Purchase Vehicle	June 2016	<input type="checkbox"/>
1.3 Scrap existing quads	June 2016	<input type="checkbox"/>

Deliverables: Executed Agreement with AQMD  
Final Report with Proof of Scrapped Quads and Financial Documentation

## ACKNOWLEDGEMENT

A placard acknowledging AB 2766 funding for the motorcycle's purchased will be placed in a conspicuous location on each motorcycle. El Dorado County Parks and Trails requested whatever graphics, logos, designs, etc. that AQMD has on hand for use in the preparation of the placard.

## COST ESTIMATE BREAKDOWN

El Dorado County Parks and Trails requests \$24,000 in AB 2766 funds, with 20% of the total project cost as local match:

2016	AB 2766	LOCAL MATCH	IN-KIND	COST
PERSONNEL	0	0	0	0
CONTRACT	0	0	0	0
MATERIALS	<b>\$24,000</b>	\$6,000	0	\$30,000
CONSTRUCTION	0	0	0	0
<b>TOTAL</b>	<b>\$24,000</b>	<b>\$6,000</b>	0	<b>\$30,000</b>

## MATCHING FUNDS

The matching funds will come from green sticker In Lieu funds.

## SCHEDULE OF DELIVERABLES / MONITORING PROGRAM

Upon Contract Award, El Dorado County Parks and Trails will initiate procurement on the zero-emission motorcycles requested with 30 days. Once the motorcycles have been procured and the county has taken possession of them, they will be put into service within 14 days.

In order to comply with the quarterly monitoring requirements, El Dorado County Parks and Trails will prepare quarterly monitoring reports detailing the mileage ridden in the quarter and the calculated emissions benefits over the replaced quads for the entire project life (10 years).



**COUNTY OF EL DORADO, CALIFORNIA  
BOARD OF SUPERVISORS POLICY**

<b>Subject:</b>  <b>GRANT APPLICATIONS</b>	<b>Policy Number</b> <b>A-6</b>	<b>Page Number:</b> <b>Page 1 of 2</b>
	<b>Date Adopted:</b> <b>12/22/1987</b>	<b>Revised Date:</b> <b>4/23/13</b>

**BACKGROUND:**

The County receives financial assistance in the form of grants.

For the purposes of this policy, grants shall be defined as cash or in kind assistance awarded by a government or other organization (called the grantor) for specified purposes to an eligible recipient (called the grantee). Grants are usually conditional upon certain qualifications as to the use, maintenance of specified standards, or a proportional contribution by the grantee or other grantor(s).

The grant process may consist of several steps including a notice of intent to apply, application, acceptance of award, and execution of grant agreement and related documents. The purpose of this policy is to ensure flexibility and efficiency in the grant application process while maintaining the Board of Supervisors discretion over the acceptance of grant funding and any related obligations.

**POLICY:**

1. Authority
  - A. County department heads are authorized to execute all documents required to apply for grants.
  - B. The Board of Supervisors is the sole authority for accepting grant awards and approving grant agreements. After acceptance of a grant award and approval of the grant agreement, the Board may delegate authority to execute the grant agreement and other grant related documents.
2. Department Head Responsibilities
  - A. Department heads are expected to exercise good judgment when determining to spend staff time applying for a grant.
    - i. The grant should be directly related to the mission and vision of the department.
    - ii. Any county match requirements must be feasible and reasonable.



**COUNTY OF EL DORADO, CALIFORNIA  
BOARD OF SUPERVISORS POLICY**

<b>Subject:</b>  <b>GRANT APPLICATIONS</b>	<b>Policy Number</b> A-6	<b>Page Number:</b> Page 2 of 2
	<b>Date Adopted:</b> 12/22/1987	<b>Revised Date:</b> 4/23/13

- B. Department heads are required to communicate, document, and coordinate with any other county departments that may be involved with or affected by the grant program or project.
- C. Department heads are responsible for determining whether they are authorized to exercise the authority provided herein under the grantor's guidelines for each grant.
- D. Department heads are encouraged to seek assistance and guidance from the Chief Administrative Office in fulfilling the responsibilities listed above.

**Primary Department:** Chief Administrative Office

**References:** None



# ON-ROAD PROJECTS

Subcategory: (1d) Electric Vehicle Purchases

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**Air District Name:** El Dorado County APCD

**Local Government Name:** Not Applicable

**Project Name:** SPTC Corridor LE Patrol

**Description:** This project will provide zero-emissions motorcycles to assist the El Dorado County Sheriff's Department patrol the SPTC corridor (26 miles of rails and trails) and other recreational areas within El Dorado County.  
**(Issues/Comments)**

**Implementing Agency:**

**Private Agency:** No

## **FUNDING:**

**MVFees Funding:** \$24,000

**MSRC Funding:** \$0

**Moyer Funding:** \$0

**CMAQ Funding:** \$0

**Other CoFunding** \$6,000

**Capital Recovery Factor:** 0.12

**Project Analysis Period:** 10 years

**Vehicle Miles Traveled (VMT):** 7,000 annual miles

## **EMISSION FACTORS:**

<b>Baseline Vehicle Emission Factors</b>		<b>Cleaner Vehicle Emission Factors</b>	
<b>ROG :</b>	0.15 <i>grams per mile</i>	0.00	<i>grams per mile</i>
<b>NOx :</b>	0.17	0.00	
<b>PM10 :</b>	0.09	0.00	

## **EMISSION REDUCTIONS:**

	<b>Pounds per Year</b>	<b>Tons per Year</b>
<b>ROG:</b>	2	0.00
<b>NOx:</b>	3	0.00
<b>PM10:</b>	1	0.00
<b>Total:</b>	<u>6</u>	<u>0.00</u>

## **COST-EFFECTIVENESS OF:**

**Motor Vehicle Fees and/or Moyer Funds:** \$442.91 per pound ,885,814 per ton  
**CMAQ Funds:** \$0.00 per pound \$0 per ton  
**All Funding Sources:** \$553.63 per pound ,107,267 per ton