

ALAN M. ARAKAWA  
Mayor  
STEWART STANT  
Director  
MICHAEL M. MIYAMOTO  
Deputy Director



MICHAEL P. RATTE  
Solid Waste Division  
ERIC NAKAGAWA, P.E.  
Wastewater Reclamation Division

**COUNTY OF MAUI  
DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT**  
2050 MAIN STREET, SUITE 2B  
WAILUKU, MAUI, HAWAII 96793

March 17, 2017

RECEIVED  
2017 MAR 28 AM 9:28  
OFFICE OF THE  
COUNTY COUNCIL

Ms. Lynn A.S. Araki-Regan  
Budget Director, County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

A handwritten signature in black ink, appearing to read "Lynn Araki-Regan".

Honorable Alan M. Arakawa  
Mayor, County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

**APPROVED FOR TRANSMITTAL**  
*Alan Arakawa* 3/24/17  
Mayor Date

For Transmittal to:

Honorable G. Riki Hokama  
Chair, Budget and Finance Committee  
Maui County Council  
200 South High Street  
Wailuku, Hawaii 96793

Dear Chair Hokama:

**SUBJECT: AMENDING FISCAL YEAR 2017 BUDGET: APPENDIX C – CAPITAL IMPROVEMENT PROJECTS (DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, DEPARTMENT OF PARKS AND RECREATION, DEPARTMENT OF PUBLIC WORKS, DEPARTMENT OF WATER SUPPLY) (BF-22)**

The County is in receipt of the above Budget and Finance (BF) Committee requested information dated March 9, 2017 in regards to project CBS-2722. Your request and the corresponding answer is provided below by the Department of Environmental Management (DEM).

*Request a project description, purpose of project, status of project, estimated timeline, and project budget for CBS-2722, Countywide Landfill PV/Wind Turbine Lighting project.*

Project Budget: \$195,000

Project description: This project will design and install renewable energy lighting systems for site safety and security at the County landfills.

Honorable Riki Hokama  
BF Committee Chair  
March 17, 2017  
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Project Purpose: These PV/wind turbine powered lighting systems will be used at the landfills in areas where no electric power exists, to provide LED lighting to critical site access areas safely during low light conditions for early morning shifts and late evenings. These renewable energy systems require minimal maintenance compared to a mobile light-plant or multiple small generator systems requiring routine maintenance, fueling, enclosures, and difficult to secure in remote areas.

Project Status: Project scope is in design now and out to bid in April 2017.

Estimated Timeline: Project out to bid: April 2017  
Contract executed: June 2017  
Construction/Installation: October – December 2017

Also attached is a summary of the project submission in the CBS system.

Sincerely,



STEWART STANT, Director  
Department of Environmental Management

Attachments  
cc: Michael Ratte

**County of Maui  
Fiscal Year 2017-2022 Capital Improvement Program**

CBS No: CBS-2722

Project Name: Countywide Landfill PV/Wind Turbine Lighting  
 Department: Department of Environmental Management  
 District: Countywide  
 Project Type: Sanitation  
 Anticipated Life: 7-years



Prior Years	Appr	Ensuing	Subsequent Years					Total
Expend/Encb	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	6-Year
0	0	195,000	0	0	0	0	0	195,000

**PROJECT DESCRIPTION**

This project will design and install renewable energy lighting systems for site safety and security at the County landfills. These PV/wind turbine powered lighting systems will be used at the landfills in areas where no electric power exists, to provide lighting to critical site access areas during low light conditions.

**PROJECT JUSTIFICATION**

The critical access areas of the County's landfills such as leachate wells, storm water detention basins, landfill gas wells, and landfill gas flares are located in remote areas where conventional electrical distribution does not exist, and access during low light conditions is a concern for the safety and security of landfill staff. The cost of providing alternative energy power to these systems is more favorable than providing the necessary infrastructure and hard wired electrical service for conventional lighting. This project will provide lighting for these sensitive and critical areas to allow employees to safely monitor and access during low light conditions in order to collect regulatory data, samples, and maintain/troubleshoot the system equipment.

**STRATEGIC PLAN ALIGNMENT**

Department's Strategic Plan

Countywide Priority Results

Safety and regulatory compliance.

- A Suitable Public Infrastructure
- An Efficient, Effective, and Responsive Government
- A Prepared, Safe, and Liveable County
- A Healthy and Sustainable Community

**Operating Impact Narrative**

No impact is anticipated at this time.

**FUNDING DETAILS**

Phase Description	Fund Code	Appr	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
New Construction	SW	0	195,000	0	0	0	0	0

**Schedule of Activities**

Activity	Start	End	Amount
New Construction	10/01/2016	06/30/2017	195,000
Total Capital Project Costs			195,000
Total O&M Costs			35,000
Total Capital & Operating Costs			230,000

**Methods of Financing (Ensuing + 5 Years)**

Funding Source	Amount
Solid Waste Fund	195,000
Total Funding Requirements	195,000

Department: Department of Environmental Management

District: Countywide