

Tony Baldwin, Ed.D., Superintendent

175 Bingham Road, Asheville, NC 28806
P 828.255.5921 F 828.255.5923
www.buncombe.k12.nc.us

February 24, 2017

Dr. Wanda Greene
County Manager
Buncombe County Government
200 College Street, Suite 300
Asheville, NC 28801

SUBJECT: Lottery Funding Request

Dr. Greene:

Pending formal Board of Education approval at the public meeting on March 3, I am requesting County Commissioner approval at their March 7, 2017 meeting to utilize lottery funds in the amount of \$700,000 for energy saving upgrades of LED lights throughout Buncombe County Schools. This is phase one of two phases and will leverage Duke Energy rebates to offset replacement costs.

The attached project summary sheet describes the cost and benefits of the project, which will result in a payback in less than four years with continued operational savings for years to come.

Thank you for your consideration and I will forward the formal Board approval and the lottery application immediately following the Board's March 2, 2017 meeting.

Regards,



Timothy Fierle, AIA
Director of Facilities

Attachments: 02/22/2017 Memo from Clark Wyatt
Energy Management Summary Sheet

CC: Dr. Tony Baldwin, Superintendent
Ms. Ann Franklin, Board Chair
Ms. Alesha Reardon, Buncombe County Schools Energy Manager
Mr. Clark Wyatt, Buncombe County Schools Director of Maintenance

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MEMO TO: Dr. Tony Baldwin
Superintendent

FROM: Clark Wyatt
Director of Maintenance

DATE: February 22, 2017

SUBJECT: **Authorization of Lottery Application for Countywide LED Up-Grade**

The attached document summarizes the Countywide LED Up-Grade project. Option II will be use to complete this phased, multi-year project. Sources of funding for this project, if approved, will include 39/40/41 funds along with lottery, and Duke Energy Rebates.

If approved, a lottery request totaling \$700,000 will be forwarded to the County Commissioners for approval then to NCDPI.

RECOMMENDATION: Authorize application for use of lottery funds in the amount of \$700,000 for Countywide LED Up-Grade.

Attachment: Summary of Proposed Lottery Projects

CC: Mr. Tim Fierle, Director of Facilities
Ms. Amanda Bucker, Capital Outlay Facilitator
Ms. Deborah Frisby, Chief Financial Officer



BUNCOMBE COUNTY SCHOOLS ENERGY MANAGEMENT

Buncombe County Schools County Wide LED Retrofit Project

Number of buildings: 38

Approximate number of lights to retrofit: 47,000

(Administration, Cane Creek Middle, Estes Elementary, Owen High School in progress)

Timeline: 2-year project

Option 1: Purchase Lights and Pay Contractor

Installation cost: \$1,475,160

Cost of fixtures: \$5,545,057

Option 1 total cost: \$7,020,217

Option 2: Purchase Lights and BCS Hires (2) Electricians who install for 2 years

Installation Cost: \$114,500

Cost of fixtures: \$5,545,057

Option 2 total cost: \$5,659,557

Less Total Cost Using Option 2: \$1,360,660

Total DEP Rebate: \$2,345,992

- Based on current \$50/fixture rebate. *This is rebate will likely change April 1st 2018 and could increase or decrease.*

Total estimated energy savings per year completing all 38 buildings: \$855,500

Total estimated maintenance savings per year completing all 38 buildings: \$55,500

- Includes cost of fluorescent bulbs, electronic ballasts, BCS staff time, and disposal storage fees.

>TOTAL ESTIMATED ANNUAL ENERGY AND MAINTENANCE SAVINGS: \$911,000

Payback with Option 1: 5.1 years

Payback with Option 2: 3.6 years

For more details, please feel free to contact Buncombe County School's Energy Manager:

Alesha Reardon

alesha_reardon@bcsemail.org

828-225-1109