# BUILDING ENTERPRISE FUND ADVISORY COMMITTEE

December 6,2021

# INTRODUCTIONS & WELCOME TO NEW MEMBERS

### **PUBLIC COMMENT**

### **REVIEW OF BY-LAWS**

### REVIEW AND APPROVAL OF MEETING MINUTES OCTOBER 18, 2021

## **CAPITAL PROJECT REVIEW**

## **CAPITAL PROJECTS REQUESTS**

# INTERIOR LED LIGHTING UPGRADE, 1<sup>ST</sup> FLOOR RUSSELL CAMPUS

### Interior LED Lighting Upgrade, 1<sup>st</sup> Floor Russell Campus

BEFAC previously advised the Department to proceed with a project to replace the aging lighting control panels in the building with the request that the project to provide power monitoring and reporting of the system in the amount of \$712,356. The hard construction cost included in these estimate is \$522,356.

However, this project provides only minimal control, monitoring and reporting capabilities due to the make up of the current lighting fixtures.

The RPM prepared a cost estimate to replace the LED lighting, in conjunction with the Lighting Panel Replacement projects in the amount of \$1,986,072.

The Department is requesting BEFAC's advise to proceed with the LED Replacement project with the lighting panel replacement.

### RUSSELL CAMPUS COVERED PARKING SOLAR ARRAY, PHASE I ANALYSIS

#### Russell Campus Covered Parking Solar Array, Phase I Analysis

A cost estimate was previously presented to BEFAC for a Phase 1 of a Solar Panel Covered Parking project in the amount of \$4,480,175. BEFAC requested an analysis of the project before they could advise on whether or not to proceed with the project. Real Property Management (RPM) revised the estimate to \$3,085,489 and further provide some actual cost to assist in providing the following analysis.



#### Russell Campus Covered Parking Solar Array, Phase I Analysis

Array Size =  $30,300 \text{ sf} (2,814.96 \text{ m}^2)$  or approximately 267 kW array.

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Average Month Energy Demand = 228,039.80 kWh
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Per National Renewable Energy Laboratory – solar radiation in Las Vegas is 4-5 kWh/ m<sup>2</sup>/day.
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Est. NVE rate Cost = \$0.08/kWh

Est. NVE Energy Buy back = \$0.024/kWh

#### Assumptions

1) 80% of energy consumption occurs during solar energy producing hours.

#### Russell Campus Covered Parking Solar Array, Phase I Analysis

#### Calculations:

Using 4.5 kWh/m<sup>2</sup>/day, array produces an average of 12,667.37 kWh/day or an average of 385,088 kWh per month (30.4 days/month)

Energy cost avoidance: 238,039.80kWh x 80% = 190,431.20 kWh x \$0.08/kWh = \$15,234.54/month or \$182,814.57/year.

Energy Revenue generations (385,088 – (238,039.80 x 80%)) x 0.024 = \$4,671.75/month or \$56,061/year.

Cost of installation: RPM Estimate \$3,085,489

Straight line Payback = \$3,085,489/ (\$182,814.57+\$56,061) = 12.9 years

Carbon Footprint Reduction

From EPA, 1 lb  $CO_2/1$  kWh

190,431.20 kWh/yr x 1 lb  $CO_2$ /kWh = 190,431.20 lbs (863.78 tonnes) of  $CO_2$  reduction per year.

Is BEFAC willing to advise the Department to proceed through the design and bidding process on this project? The award could be held pending BEFAC review.

# DEPARTMENTAL PERFORMANCE DATA



2,000												
2,000	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b></b> FY18	4,632	5,239	4,302	4,646	4,406	3,866	4,223	4,058	4,934	4,781	5,346	5,047
<b>—</b> FY19	4,946	5,579	4,177	5,237	4,486	3,729	4,424	4,584	4,657	5,148	4,926	4,922
→ FY20	5,480	4,570	3,919	4,704	3,418	3,714	4,621	4,088	3,726	3,308	3,479	4,678
<del>—————————————————————————————————————</del>	4,718	4,849	5,179	4,609	3,924	5,141	4,777	4,516	5,168	5,200	5,211	5,868
<b>—</b> FY22	5,007	6,187	4,757	5,068	4,823							

### Building Permits Issued - Fiscal Year Comparison Through November 2021

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	JUL	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
FY18	4,632	5,239	4,302	4,646	4,406	3,866	4,223	4,058	4,934	4,781	5,346	5,047	55,480
FY19	4,946	5,579	4,177	5,237	4,486	3,729	4,424	4,584	4,657	5,148	4,926	4,922	56,815
FY20	5,480	4,570	3,919	4,704	3,418	3,714	4,621	4,088	3,726	3,308	3,479	4,678	49,705
FY21	4,718	4,849	5,179	4,609	3,924	5,141	4,777	4,516	5,168	5,200	5,211	5,868	59,160
FY22	5,007	6,187	4,757	5,068	4,823								25,842





12,000 -

10,000												
10,000	JUL	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
<b></b> FY18	22,626	26,980	26,459	25,020	22,778	27,768	22,870	21,398	24,830	23,942	25,426	24,443
<b></b> FY19	23,689	25,729	21,795	26,588	23,249	22,133	23,008	20,788	23,326	22,801	23,779	21,080
→ FY20	22,187	21,963	20,661	23,024	18,050	18,977	20,933	19,986	20,557	19,241	16,963	19,664
<del>—————————————————————————————————————</del>	20,440	19,376	20,604	20,062	17,055	19,487	17,307	18,928	22,626	21,014	20,078	23,290
<b>—</b> FY22	20,791	21,925	21,764	20,779	22,321							

### Building Completed Inspections- Fiscal Year Comparison Through November 2021

	JUL	AUG	SEPT	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	YTD
FY18	22,626	26,980	26,459	25,020	22,778	27,768	22,870	21,398	24,830	23,942	25,426	24,443	294,540
FY19	23,689	25,729	21,795	26,588	23,249	22,133	23,008	20,788	23,326	22,801	23,779	21,080	277,965
FY20	22,187	21,963	20,661	23,024	18,050	18,977	20,933	19,986	20,557	19,241	16,963	19,664	242,206
FY21	20,440	19,376	20,604	20,062	17,055	19,487	17,307	18,928	22,626	21,014	20,078	23,290	240,267
FY22	20,791	21,925	21,764	20,779	22,321								107,580
350,000													
300,000	294,	540		277,965									
250,000				_			242,206		240,2	67			
200,000													
150,000													
150,000												407 500	
100,000												107,580	
50,000													
0	FY:	10		FY19			FY20		FY21			FY22	
■ YTD	294,			277,965			242,206		240,2			107,580	

#### **Building Inspections Activity Breakdown**



RESIDENTIAL INSP/DAY/INSP

COMMERCIAL

----- DAILY MANPOWER

#### **BUILDING INSPECTOR ACTIVITY**



#### **BUILDING INSPECTOR ACTIVITY** Rollover Data by Fiscal Year

	FY18	FY19	FY20	FY21	FY22
Rollover Data	2.02%	1.63%	1.40%	3.36%	3.59%



## **STAFFING UPDATE**

#### **New Hires**

Name	Position
Adrian Plata	Building Permit Specialist II
Terry Kozlowski	Assistant Manager Plans Exam
Toby Peterson	Senior Engineer
Moises Rivera	Senior Engineer
Artur Babayan	P/T Management Assistant
Mahmoud Sanaei	P/T Management Assistant
Caitlyn Stevenson	P/T Management Assistant
Kevin Alonzo	P/T Management Assistant
Donna Bergstrom	Administrative Secretary
Stephen Paez	Building Plans Examiner Specialist
Paul Simpson	Associate Engineer
David Vargulic	Building Plans Examiner Specialist
Mowry Allen	P/T Management Assistant
Magda Nezam	Building Plans Examiner I
Nylasia Packer	Office Specialist
Adam Young	Building Permit Specialist I

#### Promotions

Name	Position
Stephanie Dyer	Building Plans Technician
Heather Santos	Building Plans Technician
Jovita Ariza	Building Permit Specialist I
Kevin Gravley	Senior Building Inspector
Jordyn Hixson	Senior Building Inspector
Andrew Kelly	Senior Building Inspector

#### Offers Made pending background check

Number of Positions	Position
1	Commercial Combination Inspector (will be a promotion)
3	Senior Building Inspector (1 will be a promotion)
3	Building Permit Specialist I
1	Supervising Building Inspector (will be a promotion)

#### **Positions in Recruitment**

Number of Positions	Position
1	Administrative Secretary
1	Assistant Manager Plans Exam
1	Manager Engineering
1	Building Inspector I/II
1	Fire Protection Engineer
1	Building Inspection Specialist
1	Office Assistant II
2	Senior Building Inspector

#### Additional Position Seeking Authority to Recruit

Number of Positions	Position
2	Senior Engineer
2	Building Inspector I/II
1	Senior Building Inspector (once employee promotes, need to fill position)
1	Commercial Combination Inspector (once employee promotes, need to fill position)

#### Additional Funded Positions in holding

Number of Positions	Position
1	Administrative Secretary
1	Administrative Specialist
1	Associate Engineer
2	Building Plans Examiner Specialist
2	Building Inspector I/II
1	Manager Plans Exam
1	Office Assistant II
2	Records Technician
5	Senior Building Inspector
1	P/T Management Assistant
9	Intern

## **ECONOMIC OUTLOOK**

From **BEFAC** Members

# PROPOSED ITEMS FOR FUTURE AGENDA

### NEXT COMMITTEE MEETING

March 22, 2022

### **PUBLIC COMMENT**

## **ADJOURN MEETING**