

2022 APPLICATION FORM

Project Funding for Local Initiatives (LI)

Construction Projects

Project Title Palm Beach County Electric Bus Transition Initiative
Applicant Palm Beach County Board of County Commissioners

WHAT DO YOU WANT TO BUILD?

In no more than 3 sentences, provide a general description of the project and what it will accomplish.

Palm Beach County is committed to reduce greenhouse emissions, the County is listed in the Environmental Protection Agency (EPA) 2018 National Priority Area List, as an area where the population is exposed to more than 2.0µg/m³ of diesel particulate matter emissions. The County requests funding for the acquisition of four (4) electric buses and charging stations at a cost of \$5,029,716; to be used by Palm Tran in the provision of Fixed Route Public Transportation. The project is eligible as Transit Capital in the Local Initiatives Program. No construction costs are included in this project. Palm Beach County is requesting \$5,000,000.

WHO OWNS THE RIGHT-OF-WAY?

Check whether the applicant and/or another agency owns the right-of-way where the project will be built. Resolution of support from facility owner clearly indicating that the project may be constructed as proposed is a required attachment (see submittal checklist).

☒ Applicant ☐ Other Entities _____
Requires resolution letter from owner allowing project to be built.

Enter any additional information regarding ownership of right-of-way

WHO IS DOING WHAT?

Check the applicable boxes. All projects on state highways must be administered and constructed by FDOT. For projects on local roadways (county or city), the applicant may administer the project or ask FDOT to administer the project on their behalf. Locally administered projects require a Local Agency Program (LAP) agreement to administer Federal Aid projects in accordance with FDOT's [Local Agency Program Manual](#) (topic no. 525 010 300).

	<u>Administered by:</u>	<u>Funded by:</u>
Design (PE)	<input checked="" type="checkbox"/> Applicant or consultant ⁽¹⁾⁽²⁾ <input type="checkbox"/> FDOT (requires prior approval)	<input checked="" type="checkbox"/> Applicant (required if locally administered) <input type="checkbox"/> TPA (if FDOT administered)
Construction (CST)	<input checked="" type="checkbox"/> Applicant or consultant ⁽¹⁾ <input type="checkbox"/> FDOT (requires prior approval) <input type="checkbox"/> Other: _____	<input type="checkbox"/> Applicant <input checked="" type="checkbox"/> TPA
Const Eng & Inspect (CEI)	<input checked="" type="checkbox"/> Applicant or consultant ⁽¹⁾⁽²⁾ <input type="checkbox"/> FDOT (requires prior approval)	<input checked="" type="checkbox"/> Applicant (if locally administered project) <input type="checkbox"/> TPA (if FDOT administered project)

(1) FDOT pre-qualified consultants must be used on all design and CEI work for critical projects (a project is considered critical when it is on the State Highway System (SHS), features a major structure, and/or has a budget greater than \$10 million)

(2) Design consultant and CEI consultant shall not be the same.

APPLICANT CONTACT INFORMATION

Contact Person Claudia Salazar
Title Grants & Capital Project Analyst
Email csalazar@pbcgov.org
Phone Number 561.841.4241
Address 100 N. Congress Ave. Delray Beach, FL 33445

PROJECT LOCATION

Road Name 100 N. Congress Ave. Delray Beach, FL 33445
Road Number US, SR, CR, etc.

Project Limit Begin Provide a commonly recognizable termini (street, bridge, etc.)
Project Limit End

QUALIFYING ACTIVITIES FOR FUNDING

Check the box that represents the majority of the work the proposed project will address. Eligible activities must be consistent with details described under [23 U.S.C. 133\(b\)](#).

- ☐ Complete Street projects - Including Lane Narrowing, Lane Elimination, Bicycle Facilities, Pedestrian Facilities, Transit Infrastructure, Intelligent Transportation Systems (ITS), Median Modifications, Signing and lighting, Turn Lanes, Traffic Signals, Striping and Marking.
- ☒ Transit capital - purchases of vehicles, shelters, park-and-ride facilities. Can also pay up to 50% of a 3-year turn-key contract for new transit service (e.g. trolley service)
- ☐ Non-motorized infrastructure - Separated, Buffered and/or designated bike lanes, Sidewalks, Shared-use paths, Street lighting
- ☐ Freight efficiency - Airport or seaport off-site capacity improvements, Railway capacity improvements, Truck movement improvements.
- ☐ Other eligible activities not specified above

PROJECT TYPICAL SECTION INFORMATION

Complete the following information for existing & proposed features, dimensions, & right of way lines. The typical section information provides an understanding of the spacing requirement differences between the existing facilities and the proposed facilities.

	EXISTING	PROPOSED
RIGHT-OF-WAY WIDTH		
Project must fit within current ROW, acquisition is not permitted		
PEDESTRIAN OR MULTIUSE FACILITIES		
Length (miles) for one direction. Do not count both sides of roadway.		
Width on North or West side (feet)*		
Width on South or East side (feet)*		
BICYCLE FACILITIES		
Bike Lane Length (feet) for one direction. Do not count both sides of roadway.		
Width on North or West side (feet)* (not Including Buffer Width)		
Buffer Width on North or West side (feet)*		
Width on South or East side (feet)* (not Including Buffer Width)		
Buffer Width on South or East side (feet)*		
Proposed improvements requires:		
Pavement widening <input type="checkbox"/> Sharrows <input type="checkbox"/> Restriping <input type="checkbox"/>		
MOTORIZED VEHICLE FACILITIES		
Number of Through Travel Lanes		
Typical Through Lane Width (feet)		
Total Width* (No. Travel Lanes x Lane Width)		
Posted Speed Limit		
Design Speed (if known)		
MEDIAN/SWALE/CURB		
Median/Center Turning Lane Width (feet)*		
Swale Width (feet)*		
Curb Width (feet)*		
*TOTAL WIDTH OF ALL COMPONENTS (Add all rows with red for total width) Must fit within existing right-of-way.	0	0

RIGHT-OF-WAY OWNERSHIP DOCUMENTATION

Describe the project's existing right-of-way ownerships. This description shall identify when the right-of-way was acquired and how ownership is documented (i.e. plats, deeds, prescriptions, certified surveys, easements). If right-of-way is an easement, please describe the easement language. Right-of-way ownership verification documents are a required attachment (see submittal checklist on page 9).

PROJECT SCOPE OF WORK

Describe how the proposed improvements will affect the following:

ADA items (crosswalks, sidewalks, ramps, etc.)

All proposed crosswalks, sidewalks, ramps, etc. comply with ADA standards ☒ YES ☐ NO

Palm Tran will ensure vehicles acquired meet the accessibility requirements and standards for the vehicle type specified in 49 CFR parts 37 and 38, as applicable.

Access Management revisions (median modifications, impacts to driveways, etc.) YES ☐ NO ☒

Pedestrian and/or Roadway Lighting

Pedestrian lighting proposed YES ☐ NO ☒

Roadway lighting proposed YES ☐ NO ☒

Landscape (with Local Funds)

Median landscape proposed ☐ YES ☒ NO

Other landscape proposed ☐ YES ☒ NO

Irrigation items proposed ☐ YES ☒ NO

Signalization

Pedestrian signals proposed ☐ YES ☒ NO

Existing signalization to be replaced ☐ YES ☒ NO

New traffic signalization proposed ☐ YES ☒ NO

Transit Improvements

Queue jump possible ☐ YES ☒ NO

Transit provider concurrence provided YES ☐ NO ☒

Upgrade existing bus bay area ☐ YES ☒ NO

School Zone Modifications

Existing flashing school zone signal on state road ☐ YES ☒ NO

High emphasis cross walk at unsignalized crossing ☐ YES ☒ NO

Utility Modifications

Sub-surface relocation is required ☐ YES ☒ NO

Utility coordination is required ☐ YES ☒ NO

Drainage and/or other Permits

Existing closed drainage system to remain ☒ YES ☐ NO

Existing open drainage system to remain ☒ YES ☐ NO

Railroad Crossing Modifications

Rail crossing within limits ☐ YES ☒ NO

Replace railroad signal equipment and gates ☐ YES ☒ NO

Bridge Modifications

Proposed pedestrian bridge ☐ YES ☒ NO

Bridge replacement ☐ YES ☒ NO

Proposed bridge widening ☐ YES ☒ NO

Other Scope Items

Procurement of revenue service vehicles will be reviewed in accordance with 49 CFR part 663, Palm Tran will ensure vehicles are tested consistent with 49 CFR 665, meet the requirements of Buy America per 49 CFR 661, and comply with 49 CFR Part 26 DBE for TVM.

Summarize any special characteristics of the project.

Public transportation encourages energy conservation, as the average number of passengers on a transit vehicle (19 Riders per Revenue hour) far exceeds that of a private automobile (1.6). Even as a single transit vehicle consumes more energy than a private vehicle, the average amount of energy utilized per passenger is far less. The replacement of four (4) diesel vehicles with electric buses, will eliminate 6,760 tons of CO₂, 40 tons of nitrogen oxides, 1,400 pounds of diesel particulate matter and is equivalent to removing 108 cars of the road.

Identify any upcoming projects or projects currently underway adjacent to the proposed project.

Other specific project information that should be considered.

The primary purpose is to deploy the cleanest U.S.-made transit buses that have been proven in testing and demonstrations but are not yet widely deployed in transit fleets. Palm Tran will replace diesel buses with electric buses, install charging stations, and train mechanics and operators on the new technology.

PUBLIC INVOLVEMENT AND SUPPORT

Describe the public outreach and support for the project (i.e. petitions, written endorsements, resolutions, etc.).

Attach documentation.

Palm Tran conducted social media surveys on the topic of electric vehicles with great response from the public, in 2019 the Board of County Commissioners approved the project, and the ongoing maintenance and operations expenses associated with the project.

Projects impacting single family residential lots will require additional documentation of public support. Additional documentation must indicate that all property owners directly affected by the improvement were notified, that at least 25 percent of the property owners showed support for the project, and that no more than 10 percent of the property owners showed lack of support.

PROJECT MAINTENANCE

Document ownership and maintenance responsibilities for the project when complete. Applicant's Resolution of Support and commitment to fund operations and maintenance of the project is a required attachment. See submittal checklist on page 9).

The Electric Bus Transition Initiative Project will be implemented by Palm Tran's experienced project management team and technical experts in transit operations, with oversight and funding by the Palm Beach County Board of County Commissioners. Palm Tran with a staff of 622 employees provides operations and maintenance services for its fixed route fleet of 139 large, heavy-duty transit buses. Palm Tran is responsible for providing Preventive Maintenance to its fleet including all the activities, supplies, materials, labor, services, and associated costs required to preserve or extend the functionality and serviceability of the assets in a cost effective manner, up to and including the current state of the art for maintaining such asset.

COST ESTIMATE

The total construction amount of Local Initiatives Program funds requested per projects (infrastructure) must be in excess of \$250,000 with a maximum project amount of \$5,000,000.

Local Initiatives Program funds will be used to fund Construction, Construction Engineering and Inspection Activities (CEI) and FDOT in-house support activities. The applicant may also request that Local Initiative Program funds be used for project Design, Environmental Services, and Post Design Services.

Local Funds (LF) will be used for all non-participating items, contingency activities, and any costs in excess of the awarded funding (LI) allocation.

- (a) Provide detailed project cost estimate using one of the following forms. Estimate shall be broken down to eligible and non-eligible project costs. **Estimates are to be prepared and signed by a Professional Engineer from the Local Agency's Engineering office.**
 - a. [On-System \(on State Highway System\) Cost Estimate Sheet](#)
 - b. [Off-System \(not on State Highway System\) Cost Estimate Sheet](#)

Use the following links to access the basis of estimates manual as well as historical information for the project area.

[Basis of Estimates Manual](#)
[Historical Cost Information](#)

CERTIFICATION OF PROJECT SPONSOR

I hereby certify that the proposed project herein described is supported by Palm Beach County Board of Commissioners (*municipal, county, state or federal agency, or tribal council*) and that said entity will:

- 1) provide any funding required in addition to the grant amount;
- 2) enter into a LAP and maintenance agreement with the Florida Department of Transportation;
- 3) have complied with the Federal Uniform Relocation Assistance and Acquisition Policies Act for any Right of Way actions intended for this project previously performed within the project limits;
- 4) will comply with NEPA process prior to construction, which may involve coordination with the State Historic and Preservation Office (SHPO); and
- 5) support other actions necessary to fully implement the proposed project.

I further certify that the estimated costs included herein are reasonable, and that increases in these costs could cause significant increase to the local agency required participation. I understand failure to follow through on the project once programmed in the Florida Department of Transportation's Work Program is not allowed.



Signature

Clinton B Forbes

Name (*please type or print*)

Executive Director, Palm Tran

Title

2/18/2022

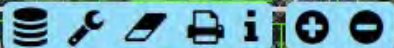
Date

FOR FDOT USE ONLY

Application Complete	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Project Eligible	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Implementation Feasible	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Include in Work Program	<input type="checkbox"/> Yes	<input type="checkbox"/> No



Search by Owner, Address or Parcel



[View Property Record](#)

Owners

PALM BEACH COUNTY

Property Detail

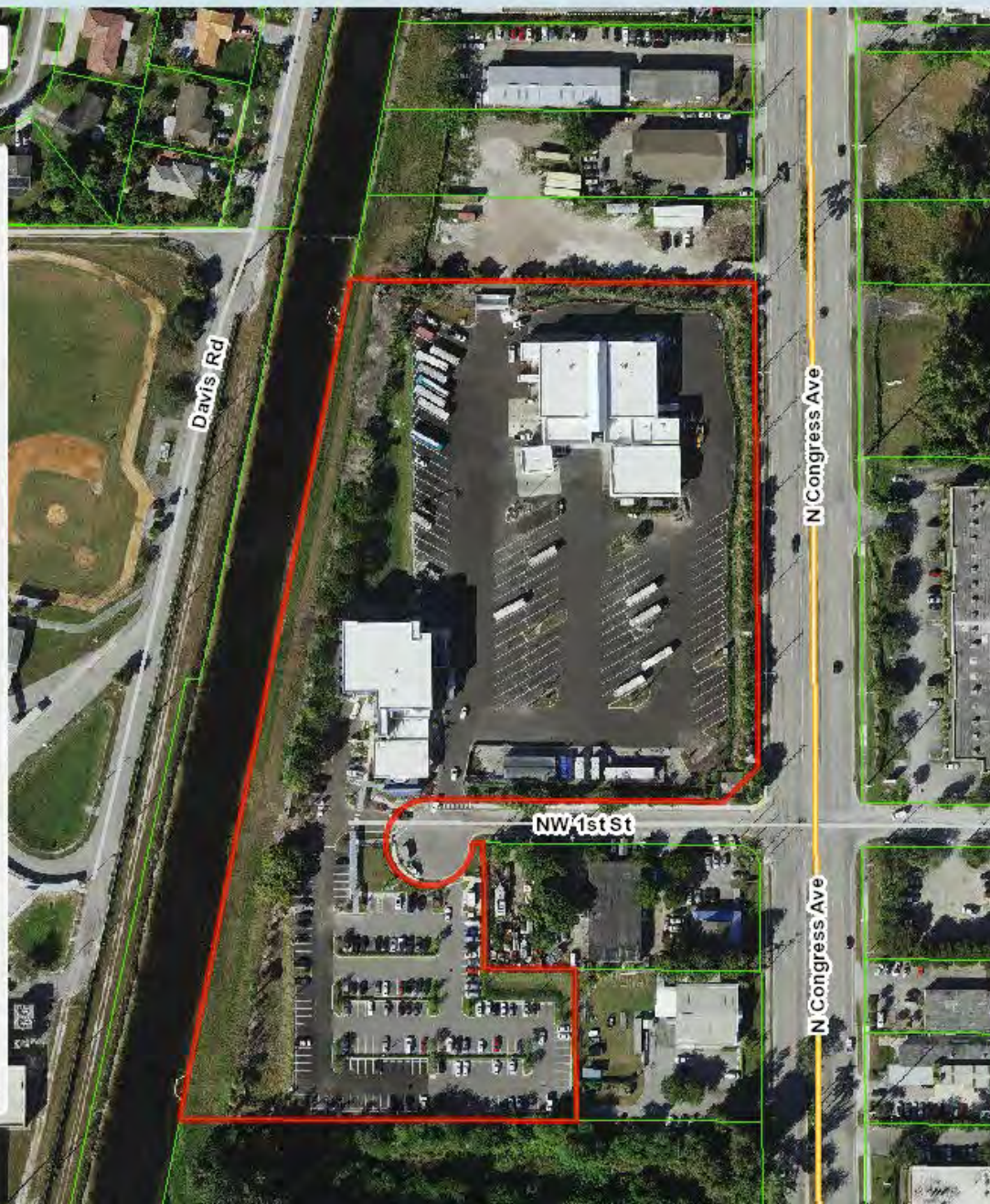
Location 100 N CONGRESS AVE
Municipality DELRAY BEACH
Parcel No. 12434618700010000
Subdivision PALM TRAN SOUTH COUNTY FACILITY
Book **Page**
Sale Date
Mailing Address PREM DIVISION C/O 2633 VISTA PKWY
ROYAL PALM BEACH FL 33411 5613
Use Type 8600 - CITY INC NONMUNI
Total Square Feet 21264

No Sales Information Available.

Appraisals

Tax Year	2021
Improvement Value	\$2,781,688
Land Value	\$3,768,526
Total Market Value	\$6,550,214

All values are as of January 1st each year



ENGINEERS COST ESTIMATE
(Use for Off-System Projects - Administered through LAP)
FM#123456-1-58-01

Project Description: Palm Beach County Electric Bus Transition Initiative (Requesting \$5,000,000)

		FHWA Participating				FHWA non-participating (Local funds)						
Pay Item Number*	Pay Item Description*	Quantity	Unit	Engineer's Unit Cost	Engineer's Subtotal Cost	Quantity	Unit	Engineer's Unit Cost	Engineer's Subtotal Cost	Total Quantity	Total Engineer's Cost	
1	Electric Bus 40'	4	EA	\$ 1,144,929.00	\$ 4,579,716.00				\$ -	4	\$ 4,579,716.00	
2	Charging Station	4	EA	\$ 112,500.00	\$ 450,000.00				\$ -	4	\$ 450,000.00	
					\$ -				\$ -	0	\$ -	
					\$ -				\$ -	0	\$ -	
		Funds for Construction (Phase 58)				\$ 5,029,716.00		Local Funds for Construction (Phase 58)		\$ -		
										Subtotal	\$ 5,029,716.00	
FDOT IN-HOUSE DESIGN SUPPORT (Phase 31) (REQUIRED)		1	LS	\$5,000	\$ 5,000.00	FDOT In-House Support must be included as an FHWA Participating Item						
ADDITIONAL FDOT IN-HOUSE DESIGN SUPPORT FOR CRITICAL PROJECTS		0	LS	\$2,000	\$ -							
FDOT IN-HOUSE CONSTRUCTION SUPPORT (Phase 61) (REQUIRED)		1	LS	\$5,000	\$ 5,000.00							
ADDITIONAL FDOT IN-HOUSE CONSTRUCTION SUPPORT FOR CRITICAL PROJECTS		0	LS	\$2,000	\$ -							
LOCAL FUNDS FOR DESIGN		Local Agency Design Work is not a FHWA Participating Item				1	LS		\$ -			
CONTINGENCY (Phase 58) (REQUIRED)		Contingency is not a FHWA Participating Item				1	LS	20%	\$ 1,005,943.20			
TRANSIT RELATED PROJECTS (10% FTA ADMINISTRATIVE FEE)		Administrative Fee is not a FHWA Participating Item				0	LS	10%	\$ -			
CONSTRUCTION ENGINEERING & INSPECTION ACTIVITIES (CEI) (Phase 68)						1	LS	12%	\$ -			
FDOT OVERSIGHT CEI (3% OF TOTAL CONSTRUCTION COST ESTIMATE) (Phase 62) (REQUIRED)		1	LS	3%	\$ 150,891.48	FDOT In-House Support must be included as an FHWA Participating						
					\$ 5,190,607.48						\$ 1,005,943.20	\$ 6,196,550.68
					Subtotal FHWA Participating						Subtotal FHWA Non-Participating	Total Construction Cost Estimate

*Projects on the State Highway System and Critical Projects SHALL utilize FDOT pay items numbers and descriptions.

Non-participating items:

- Mowing & Litter removal
- Engineering work; Optional services; Survey; Video inspection; MOT plans preparation; As-builts/record drawings
- Utility work -- this includes, but is not limited to: valve adjustments, utility relocations, FPL power pole relocations, AT&T directional bore, etc...
- Contingency

Other elements may be non-participating; the ones listed above are the commonly used pay items that are non-participating.

If you have any questions regarding an eligible or non-participating item, please contact District Four Local Program Unit.

Prepared by:
Claudia Salazar
Grants/Capital Analyst
Name:

PE Number: _____
Signature: _____ Date: 2/18/2022

Reviewed by:
Jeremy Baker
Director Admin. Svcs.
Name:

Signature: _____ Date: 2/18/2022

Approved by (Agency Responsible Charge):
Clinton B Forbes
Executive Director
Name:

Signature: _____ Date: 2/18/2022

Item Description	Cost \$
(A) TOTAL Construction Cost Estimate ⁽¹⁾	\$83,329,000.00
(B) Cost Estimate of Eligible (participating) items ⁽²⁾	\$85,838,870.00

Funding Breakdown	Fund Source	Cost \$
(C) FDOT In-House Design Support (phase 31) ⁽³⁾	TAP	\$5,000.00
(D) (Critical projects only) FDOT In-House Design Support (phase 31) ⁽³⁾	TAP	\$0.00
(E) FDOT In-House Construction Support (phase 61) ⁽³⁾	TAP	\$5,000.00
(F) (Critical projects only) FDOT In-House Construction Support (phase 61) ⁽³⁾	TAP	\$0.00
(G) TAP funds requested for Construction (phase 58)	TAP	\$0.00
(H) Local Funds for Construction (phase 58)	LF	\$0.00
(I) Local Funds for Contingency (phase 58)	LF	\$0.00
(J) Local Funds for Design	LF	\$0.00
(K) Construction Engineering & Inspection Activities (CEI) (phase 68 - optional) ⁽⁴⁾	TAP	\$0.00
(L) Construction Engineering & Inspection Activities (CEI) (phase 68) ⁽⁴⁾	LF	\$0.00
(M) Transit Related projects FTA 10% administrative fees ⁽⁵⁾	LF	\$0.00
(N) FDOT Oversight CEI (3% of TOTAL Construction Cost Estimate) (phase 62) ⁽⁶⁾	TAP	\$2,499,870.00

Funding Summary	
(O) Total TAP funds ⁽⁷⁾	\$2,509,870.00
(P) Total LF funds	\$0.00
(Q) Total Funds	\$2,509,870.00

Notes:

- (1) The Total Construction Cost Estimate in this field must be equal to the Total Construction Cost Estimate from the attached detailed project cost estimate.
- (2) Cost Estimate of Eligible (participating) items must be equal to the Subtotal FHWA Participating from the attached detailed project cost estimate.
- (3) FDOT In-House Design and Construction Support must be included in TAP funds for an amount no less than \$5,000, an additional \$2,000 is required for critical projects. This is a required item.
- (4) It is strongly recommended that the applicant allocates a nominal amount for CEI. In the event that the project is programmed without any request for Phase 68 funding, there is no opportunity to allocate CEI funds based on bid savings.
- (5) Any required Federal Transit Authority (FTA) administrative fees must be included in Local Funds.
- (6) FDOT Oversight CEI must be included in TAP funds and be equal to 3% of the Total Construction Cost Estimate.
- (7) Use of the term TAP represents the actual funding codes of TALT, TALU and TALL



Palm Tran

Administrative Offices

100 N. Congress Avenue

Delray Beach, FL 33445

(561) 841-4200

FAX: (561) 841-4291

Palm Tran Connection

50 South Military Trail

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West Palm Beach, FL 33415-3132

(561) 649-9838

FAX: (561) 656-7156

www.palmtran.org



Palm Beach County

**Board of County
Commissioners**

Robert S. Weinroth, Mayor

Gregg K. Weiss, Vice Mayor

Maria G. Marino

Dave Kerner

Maria Sachs

Melissa McKinlay

Mack Bernard

County Administrator

Verdenia C. Baker

*"An Equal Opportunity
Affirmative Action Employer"*

February 18, 2022

Valerie Neilson, AICP
Interim Executive Director
Palm Beach TPA
301 Datura Street
West Palm Beach, FL 33401

Ref: Local Initiatives Program
Project: Palm Beach County Electric Bus Transition Initiative

Dear Ms. Neilson:

Palm Beach County is applying for the 2022 Palm Beach Transportation Agency (TPA) Local Initiatives Program for the above mentioned project. The scope of the project is the replacement four (4) diesel buses that have reached their useful life with four (4) electric buses, and the installation of four (4) charging stations.

Funding for the Electric Bus Transition Initiative will not only reduce air pollution and improve health, it will lower fuel and maintenance costs while offering residents and visitors of the County a cleaner quieter ride.

If awarded, Palm Tran will administer the project funded by the TPA's Local Initiatives Program. Palm Tran is committed to managing the completion of the project, and to support the continued operation and maintenance of the project.

We look forward to the review of our application and the support of the program to reduce the level of vehicle emissions in Palm Beach County.

Sincerely,

A handwritten signature in blue ink, appearing to read "Clinton B. Forbes", is written over a blue line.

Clinton B. Forbes
Executive Director