



MEADOWLANDS BEB SOLAR CHARGING FACILITY

Budget Narrative

Submitted by:

NJ Transit Corporation

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NJ TRANSIT
The Way To Go.



BUDGET NARRATIVE**Lead Entity: NEW JERSEY TRANSIT CORPORATION**

Funds in the amount of \$223,570,393 (Option A)*, are requested for a solar canopy array, charging equipment, and related infrastructure at the Meadowlands Bus Depot to support the housing and charging of battery electric buses (BEB). Requested amounts represent a full build-out of the space (Option A).

*Other Options: These are other scaled options \$176,307,613 (Option B), \$134,142,235 (Option C), or \$58,767,075 (Option D). These are the build-out for scaled options as compared to Option A: (Option B: 79%, Option C: 60%, Option D: 26%) of the project. Each scaled build-out represents a complete project on smaller scale and would decrease the number of buses, chargers, and the overall size of the solar canopy.

Itemized budget and justification are presented below:

OPTION A:

1) Personnel	\$1,861,348
2) Fringe Benefits	\$0
3) Travel	\$0
4) Equipment	\$121,400,000
5) Supplies	\$27,507,840
6) Contractual	\$43,019,637
7) Construction	\$0
8) Other	\$29,781,658
9) Total Direct Charges (sum of 1-8)	\$223,570,393
10) Indirect Charges	\$0
11) Total Costs (sum of 9 and 10)	\$223,570,393

OPTION B:

1) Personnel	\$1,467,859
2) Fringe Benefits	\$0
3) Travel	\$0
4) Equipment	\$95,736,040
5) Supplies	\$21,692,683
6) Contractual	\$33,925,286
7) Construction	\$0
8) Other	\$23,485,745
9) Total Direct Charges (sum of 1-8)	\$176,307,613
10) Indirect Charges	\$0
11) Total Costs (sum of 9 and 10)	\$176,307,613

OPTION C:

1) Personnel	\$1,116,809
2) Fringe Benefits	\$0
3) Travel	\$0
4) Equipment	\$72,840,000
5) Supplies	\$16,504,704
6) Contractual	\$25,811,781
7) Construction	\$0
8) Other	\$17,868,941
9) Total Direct Charges (sum of 1-8)	\$134,142,235
10) Indirect Charges	\$0
11) Total Costs (sum of 9 and 10)	\$134,412,235

OPTION D:

1) Personnel	\$489,274
2) Fringe Benefits	\$0
3) Travel	\$0
4) Equipment	\$31,911,204
5) Supplies	\$7,230,711
6) Contractual	\$11,307,503
7) Construction	\$0
8) Other	\$7,828,383
9) Total Direct Charges (sum of 1-8)	\$58,767,075
10) Indirect Charges	\$0
11) Total Costs (sum of 9 and 10)	\$58,767,075

PERSONNEL

NJT is requesting \$1,861,348 (Option A)* to cover personnel costs necessary to carry out the work described in the project narrative. Personnel costs are based on 5% of the project's total construction costs.

*Other Options: \$1,467,859 (Option B), \$1,116,809 (Option C), or \$489,274 (Option D).

Personnel includes:

Position Title & Name	Yearly Salary	No. Of Months Total
Project Managers/ In-house Admins	\$572,722 (Option A) \$451,649 (Option B) \$343,634 (Option C) \$150,646 (Option D)	48

The Project Manager/In-House Admins are trained in project management skills and have the requisite education and experience in the disciplines required for managing these projects. The technical designs, under the direction of the NJ TRANSIT Project Manager, are prepared by staff who are either credentialed or have sufficient education and experience in engineering disciplines.

John McCarthy -John is the Deputy General Manager for Vehicle Maintenance at NJ TRANSIT. He has over 25 years of vast vehicle and facility maintenance experience with NJ TRANSIT. John will be responsible for overseeing operations of the project.

James Warren Berry -Warren is the Director of Zero Emissions Systems Planning and Capital Planning at NJ TRANSIT. He has expertise in modelling, planning, and designing transportation networks and infrastructure with zero emission fleets. Warren will be responsible for overseeing project management.

Joeseeph Murtagh -Joeseeph is the Director of Alternative Fuels and New Technology Integration at NJ TRANSIT with over 36 years of automotive industry experience. Joeseeph is responsible for overseeing the deployment and ongoing support of various alternative fuel programs for NJ TRANSIT. Joeseeph will be responsible for overseeing project management.

Laura O'Grady -Laura is the Assistant Director of Facility Planning & Technology Integration at NJ TRANSIT. Laura will be responsible for overseeing project management.

EQUIPMENT

Amount of funds requested for equipment: \$121,400,000 (Option A)*

*Other Options: \$95,736,040 (Option B), \$72,840,000 (Option C), or \$31,911,204 (Option D).

Equipment includes Solar Panels (\$60/sf), a Battery Energy Storage System, an upgrade for electrical services, a substation (including a switchgear and a transformer), 174kVA/300A EV Charging Cabinets (including pantographs and sensors) (\$500,000 each), cabling and conduit, a Lithium-Ion Battery Fire Suppression System, and a High-Volume Sprinkler System (\$5 s/f). Full build-out and scaled build-out costs for each equipment category and their timelines are included in the budget table.

SUPPLIES

Amount of funds requested for supplies: \$27,507,840 (Option A)*

Other Options: \$21,692,683 (Option B), \$16,504,704 (Option C), or \$7,230,711 (Option D).

The materials and supplies include concrete (comprising formwork, piles, reinforcement, and slabs), metals (comprising columns, framing, roof, dunnage, etc.), finishes, and paving (\$13/sf). Full build-out and scaled build-out costs for each supply category and their timelines are included in the budget table.

CONTRACTUAL

Amount of funds requested for contractual services: \$43,019,637 (Option A)*

Other Options: \$33,925,286 (Option B), \$25,811,781 (Option C), or \$11,307,503 (Option D).

Contractual services include: administrative/project management services to oversee the project's operation, design of the project (including scope and timeline), ensuring all parties adhere to the National Environmental Policy Act (NEPA) guidelines for processing and permitting, construction management, mobilization to bring contractors, equipment, and materials to and from the worksite, and training. Full build-out and scaled build-out costs for each contractual category and their timelines are included in the budget table.

Our contract arrangements will be funded based on the EPA's "Consultant Cap" as described in Title 2 of the Code of Federal Regulations 1500.10 (2 CFR 1500.100). Our contractor's pay will not exceed Level IV of the Rates of Basic Pay for the Executive Schedule. Pending award for this project, NJ TRANSIT will include this condition in the Request for Funding Proposal (RFP).

OTHER

Amount of funds requested for other: \$29,781,658 (Option A)*

*Other Options: \$23,485,745 (Option B), \$17,868,941 (Option C), or \$7,828,383 (Option D).

Other costs include a Contingency plan fund, which is a 20% allocation of the total construction cost. This fund will be used to extend authorized direct cost items that are already included in the budget in order to carry out the scope of work.

TOTAL DIRECT COSTS

Direct costs include personnel, equipment, supplies, contractual services, and other costs. Total direct costs requested: \$223,570,393 (Option A)*

*Other Options - \$176,307,613 (Option B), \$134,142,235 (Option C), or \$58,767,075 (Option D).

INDIRECT COSTS

Total indirect costs for the project: \$0

TOTAL AMOUNT REQUESTED FOR THE ENTIRE PROJECT:

\$ (OPTION A): 223,570,393
\$ (OPTION B): 176,307,613
\$ (OPTION C): 134,142,235
\$ (OPTION D): 58,767,075