

Stride BRT

*Fleet Procurement
M2023-65 + M2023-66*

System Expansion Committee

08/10/23



Why we are here

- Fleet context
- Contract awards
 - One for Committee approval – M2023-65
 - One for recommendation to the Board – M2023-66

Fleet Context

Electric Double-deckers on S1&S2

- Higher preference from riders who already ride double-deckers on I-405 North
- More seats means fewer standing riders and safer highway operations
- Longer trips and longer distances between stops



Electric Articulated BEBs on SR 522 (S3)

- Arterial BRT with high volumes of ons and offs along a relatively short alignment is best supported by three-door articulated buses



Inductive Charging at Terminals

- Consistent approach for all three lines
- Minimal charger footprint in downtown installations



Plug-In Charging at BBN

- Consistent approach for both fleet types
- One cord per bus to avoid switching out chargers overnight
- Charge management system maximizes efficiency and ensures consistent power loads



Total Fleet and Charging Needs by Project

	I-405	SR 522
Buses	32 Double deckers buses	14 Articulated buses
Inductive Layover Chargers	8	4
Base Plug-In Chargers	16	7
Base Charging Dispensers	32	14
Portable Plug-In Chargers	2	2
Inductive Base Chargers	1*	

*Shared between both projects

State of the Industry

- Battery electric buses increasingly common, proven technology
- Selected manufacturers meet operational and charging criteria
 - S3 articulated coaches: BYD – over 750 buses operating across 55 US transit agencies
 - S1 & S2 Double decker coaches: Alexander Denis, Inc. supplied similar diesel units for ST Express. 4,000+ BEBs produced internationally. Beginning US production of BEBs.
- Production timeline: 18-24 months - contract award and full fleet delivery
 - Stride schedule allows nearly four years to safeguard against delays and allow for vehicle testing, acceptance, troubleshooting, etc.
 - Allows for flexibility and potential for early/incremental openings

Contract Awards

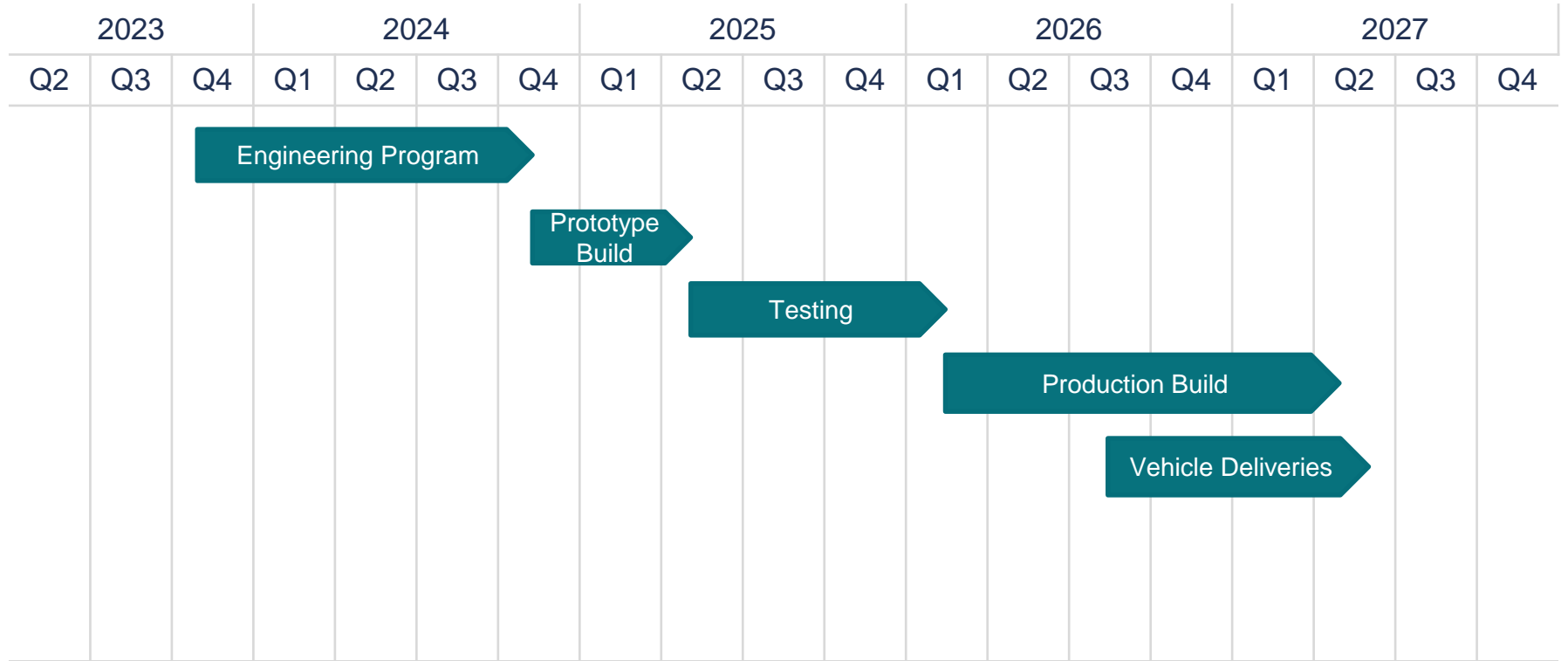
BYD Coach and Bus, LLC – Motion No. M2023-65

- BYD selected to manufacture (14) K11M articulated BEBs for SR 522 BRT and furnish charging equipment for both projects
- Contract to include inductive chargers from InductEV and plug-in chargers from Heliox
- Contract award not to exceed \$36,872,000, inclusive of 10% contingency

Alexander Dennis, INC – Motion No. M2023-66

- Alexander Dennis selected to manufacture (32) Enviro500EV Double Decker BEBs for I-405 BRT
- Contract award not to exceed \$80,476,000, inclusive of 10% contingency

Production and Delivery Timeline



Thank you.



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