



RESOLUTION No. 24-582

OF THE BOARD OF SUPERVISORS OF THE COUNTY OF NEVADA

RESOLUTION AUTHORIZING CAPITAL ASSET PURCHASE AND THE EXECUTION OF A PURCHASE ORDER IN THE AMOUNT OF \$917,600 FOR THE PURCHASE OF TWO (2) 300KW WIRELESS INGROUND INDUCTEV CHARGING SYSTEMS (4/5 AFFIRMATIVE ACTION REQUIRED)

WHEREAS, On February 23, 2021, the Board approved Resolution No. 21-047 approving a contract with Gillig, LLC. Via State of Virginia Cooperative Agreement E194-81688 to procure two 35ft Low-Floor Battery Electric Zero Emission Transit Buses, Depot Slow Charger and On-Route Fast Charger; and

WHEREAS, InductEV (formerly Momentum Dynamics) is the manufacturer included in Cooperative Agreement E194-81688 for one (1) – 150kW wireless inground induction charge system; and

WHEREAS, The Transit Services Division is seeking to purchase and install all equipment at Tinloy Transit Center necessary to support the full transition to zero-emission vehicles consistent with the Nevada County Connects Zero-Emission Bus Rollout Plan; and

WHEREAS, A full buildout of zero-emission charging infrastructure at Tinloy Transit Center is the preferred option due to minimizing construction costs and ensuring continuity of the charging equipment installed; and

WHEREAS, InductEV is the sole manufacturer of compatible wireless inground induction charging systems which are compatible with the equipment currently installed on the Nevada County Connects battery-electric buses; and

WHEREAS, Purchasing Policy section 4.6 (A) allows for a sole source procurement exempt from competitive process due to a product or service which is the only product or service that satisfies the department's operational requirements, usually because of a technological, specialized, or unique character, or proprietary nature; and

WHEREAS, the purchase price requires approval of a Capital Asset; and

WHEREAS, A purchase order in the amount of \$917,600 is necessary to be expensed in the Transit Budget 4281-91003-707-3100/ 540600; and

WHEREAS, The Transit Services Division has requested a separate budget amendment (SR24-1518) on November 12, 2024, for the total anticipated costs for Tinloy EVCS Construction Phase-1 in the amount of \$2,600,000 which includes the purchase of this capital asset request funded by SB125 Transit Intercity Rail Capital Program (TIRCP) and Zero Emission Transit Capital Program (ZETCP); and

NOW, THEREFORE, BE IT HEREBY RESOLVED that the Board of Supervisors:

1. Authorizes the capital asset purchase of a wireless inground induction charging system in the amount of \$917,600; and

2. Authorizes the Purchasing Agent to approve and execute, with appropriate terms and conditions, the purchase order with InductEV.

PASSED AND ADOPTED by the Board of Supervisors of the County of Nevada at a regular meeting of said Board, held on the 12th day of November 2024, by the following vote of said Board:

Ayes: Supervisors Heidi Hall, Edward C. Scofield, Lisa Swarhout, Susan Hoek, and Hardy Bullock.

Noes: None.

Absent: None.

Abstain: None.

Recuse: None.

ATTEST:

TINE MATHIASSEN
Chief Deputy Clerk of the Board of Supervisors

By: 



Hardy Bullock, Chair

Sole Source Engineering Considerations – InductEV

The following is a list of client considerations for sole source justification in awarding procurement of InductEV's wireless charging technology for Nevada County Transit's fleet electrification project. The following justifications outline the specific and unique circumstances that necessitate procuring this technology from InductEV as the only viable supplier.

1. **Unique Technology** InductEV offers the only commercially available 300kW wireless charging system, critical for Nevada County's rapid depot and on-route charging needs. This patented solution increases fleet uptime, reduces maintenance, and enhances safety, unmatched by any other system.
2. **Compatibility** Nevada County Transit's existing investment in InductEV's technology requires continued use for operational compatibility. Switching technologies would incur costly infrastructure changes and operational inefficiencies. Standardizing on InductEV's platform ensures seamless fleet operation and avoids the complexities and costs associated with supporting multiple charging systems.
3. **Lack of Alternatives** InductEV is the market-dominant leader in high-powered wireless charging solutions. No competitor meets the technical requirements, including the power requirement, minimal footprint and OEM Vehicle compatibility.
4. **Time Constraints** InductEV is the only vendor capable of meeting our project deadlines. Their proven delivery and service track record ensures we avoid penalties or loss of funding due to delays.
5. **Cost-Effectiveness** InductEV's system enables smaller, lighter battery packs, extends battery life, and lowers maintenance costs. AI-powered optimization reduces energy expenses and prepares for future V2G opportunities.
6. **Exclusive Support** InductEV provides essential 24/7 technical support, specialized training, and service agreements uniquely designed for high-power wireless systems, ensuring long-term performance.
7. **Proven Performance** InductEV's technology has been successfully deployed in similar projects, in US and in EU, proving its reliability, efficiency, and compatibility with real-world transit needs.

Conclusion

In summary, InductEV is the only vendor capable of providing the unique wireless charging technology required for Nevada County Transit's fleet. The procurement of this system from InductEV will ensure operational efficiency, cost savings, and future scalability, while maintaining compliance with procurement regulations.

Nevada County - Two 300kW Wireless Charging Systems

Nevada County

United States

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Reference: 20240913-161907741

Quote created: September 13, 2024

Quote expires: November 12, 2024

Quote created by: Adam Halsey

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Comments from Adam Halsey

Products & Services

Item & Description	Quantity	Unit Price	Total
300kW Charging System (Ground or Flush Mount) 300 kW Charger	2	\$300,000.00	\$600,000.00
300kW Long-Distance 100' Cable Kit (for lengths of 40+ feet) 300 kW Cable Extension	2	\$36,000.00	\$72,000.00

Item & Description	Quantity	Unit Price	Total
Charger Commissioning and Project Support	2	\$20,000.00	\$40,000.00
300kW 3-Year Warranty 300 kW GA Extended Warranty 3 Year	2	\$60,000.00	\$120,000.00
Monitoring Software 3-Year Subscription Data Monitoring 3-Yr	2	\$10,800.00	\$21,600.00
Freight FOB Nevada County Shipping	2	\$9,500.00	\$19,000.00
One-time subtotal			\$872,600.00
Total		\$872,600.00	

Price Notes & Exclusion:

- Prices shown are valid at time of quote for the quantities shown.
- Estimated shipping cost is subject to change upon actual shipping charges incurred.
- Taxes, including VAT - prices above do not include any sales tax or VAT. Any applicable sales taxes or VAT will be collected at the prevailing rate(s).

Terms & Legal

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Questions? Contact me



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