



Date: October 14, 2021
Current Meeting: October 21, 2021
Board Meeting: October 28, 2021

BOARD MEMORANDUM

TO: Indianapolis Public Transportation Corporation (IPTC) Board of Directors
THROUGH: President/CEO Inez P. Evans
FROM: Senior Director of Facilities and Preventative Maintenance Paul Williams
SUBJECT: Consideration and approval of Charge Management Software

ACTION ITEM A – 8

RECOMMENDATION:

In a manner consistent with IPTC contract award standards, we ask the Board to authorize the President/CEO to enter into a five year contract with AMPLY Power (AMPLY) for an amount not to exceed \$480,500 over the life of the contract. This amount includes a one-time implementation cost of \$155,000 and \$65,100 annually for service maintenance fees.

BACKGROUND:

To provide efficient and sustainable transit, IPTC is looking for options to manage the charging of its electric vehicles (EV). It is necessary to charge EVs at specified times; charging the vehicles at non-specified times or power peaks leads to higher costs. IPTC needs to find a low-cost and efficient charging process to avoid these higher costs. Presently 43.9% of charge times are On-Peak Hours. AMPLY has extensive experience of being a reliable EV charge-management software solutions provider. AMPLY is the BYD preferred vendor due to the compatibility of their software systems, their wide range of system capability, and their experience working together on several projects throughout multiple public and private transit companies within the United States. AMPLY provides complete turnkey service; the ability to design, build, operate, and maintain (DBOM).

DISCUSSION:

The contract with AMPLY will provide IPTC with a software solution to manage the charging of all EV buses in one platform. The solution will integrate EVs and charging station management to ensure operational readiness while substantially decreasing energy usage. Conservative estimates show an annual savings of approximately \$111,538. With the future expansion of IPTC’s Electric Bus Fleet, in conjunction with the development of BRT Purple and Blue Lines, this saving is projected to increase significantly using the AMPLYs software solution.

The benefit of utilizing a charge-management system include:

- Return on investment (ROI) in less than three years
- Reduced IPTC electric energy cost and optimize its E-Fleet operation
- Software, analytics, and recommend vehicle types, charging hardware, and site energy requirements
- Intelligent algorithms to predict the remaining range of EV’s
- Increased number of EV’s available for revenue service compared to the existing charging infrastructure

ALTERNATIVES:

The Board could choose not to approve procuring the electric bus charge management system. However, this will directly impact IPTC's effort to provide an effective cost saving on its E-fleet charging and a more efficient operation of its electric bus fleet.

DBE/XBE DECLARATION:

The AMPLY Power contract will be under a sole source. Therefore, no participation goals apply.

FISCAL IMPACT:

The funding source for this service is from the local operations budget.

STANDING COMMITTEE DISCUSSION/RECOMMENDATION:

This action will be reviewed by the Finance Committee on October 21, 2021.