METROPOLITAN
TRANSPORTATION
COMMISSION

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Memorandum

TO: Brad Paul, Deputy Executive Director, LGS DATE: October 23, 2018

FR: Jennifer Berg, Principal Program Manager, BayREN

RE: Sole Source Contract – UCLA

The purpose of this memorandum is to request sole source authorization for a compelling business reasons to procuring services from UCLA to provide building and utility data services for assistance with targeting for BayREN programs.

Justification:

The University of California, Los Angles (UCLA) is a non-profit accredited university, eligible for access to disaggregated utility data at the account-level for research purposes, as set forth in California Public Utilities Commission (CPUC) Decision 14-05-016. For the past 5 years, UCLA has obtained data for Southern California Investor Owned Utilities under an NDA from a Non-Disclosure Agreement (NDA) from the CPUC. With this data, UCLA invented the Energy Atlas for Southern California, the only such tool in California.

UCLA has spent the last 5 years developing solutions to problems of utility data quality and to the challenges of geocoding accounts to parcels and parcel characteristics. An Energy Atlas for the BayREN will benefit from this work in terms of both cost and quality, and from a consistent approach that will allow for statewide comparisons. There are no known entities that have access to this utility data, that have worked in concert with the CPUC to obtain this data, or have developed a tool similar to the Energy Atlas.

- UCLA has written peer-reviewed papers on the Atlas, including:
    - Porse, E.C., J. Derenski, H. Gustafson, Z. Elizabeth, and S/ Pincetl (2016). "Structural, Geographic, and Social Factors in Building Energy Use: Analysis of Aggregated, Account-Level Consumption Data in a Megacity". Energy Policy. Vol. 96. September 2016. Pg. 179-192.
    - Derenski, J. E.C. Porse, H. Gustafson, D. Cheng, and S. Pincetl. "Spatial and Temporal Analysis of Aggregated Energy Use Data in Los Angeles Schools." (2018). Energy Efficiency.
    - E.D. Fournier, F. Federico, E.C. Porse, S. Pincetl. "Effects of Building Size Growth on Residential Energy Efficiency and Conservation in California." Applied Energy. In Review. May 2018.
    - Pincetl, S., Chester M., Eisenman D.. Urban heat stress vulnerability in the U.S. Southwest: the role of sociotechnical systems. Sustainability, 8, 842; doi:10.3390/su8090842. 2016.
    - Pincetl S., Graham R., Murphy S., Sivaraman D. Analysis of high-resolution utility data for understanding energy use in urban systems: The case of Los

Angeles, California. Journal of Industrial Ecology DOI: 10.1111/jiec.12299, 2015.

- Kennedy CA., Stewart I., Facchini A., Cersosimo I., Mele R., Chen B., Uda M., Chiu A., Kim K-g., Dubeux C., La Rovere EL., Cunha B., Pincetl S., Keirstead J., Barles S., Pusaka S., Gunawan J., Adegbile M., Ibrahim N., Farooqui RK, Cervantes G., Sahin AD., Energy and material flows of megacities. Proceedings of the National Academies of Science. www.pnas.org/cgi/doi/10.1073/pnas.1504315112, 2015.
- Pincetl S. Chester M.K., Circella G. Fraser A., Mini C., Murphy S., Reyna J., Sivaraman, D. Enabling future sustainability transitions; An urban metabolism approach to Los Angeles. Journal of Industrial Ecology, 18: 871-882, 2015

Recommendation:

Staff requests approval for sole source for the Energy Atlas for Bay Area jurisdictions with UCLA in the not to exceed amount of $375,000.

Sole Source Request:

Jennifer Berg
Principal Program Manager, BayREN

Approval of Sole Source Request:

Brad Paul
Deputy Executive Director,
Local Government Services

Concur Sole Source Request:

Jerry Lahr
Assistant Director, Energy Programs

Steve Heminger
Executive Director