

## MOTION

City leaders are at the forefront of municipal governments in developing a future based on a 100% carbon-free energy system. In 2016, the Los Angeles Department of Water and Power (DWP) partnered with the U.S. Department of Energy to conduct a study under CF 16-0243, that provided objective science-based recommendations on different paths to 100% carbon-free energy. DWP and the City are working diligently to analyze that study and to plan the most effective strategies to achieve decarbonization by 2035 through preparing the Strategic Long Term Resource Plan (STLRP) as requested under CF 21-0352. These policies have many moving parts and require our collective expertise to dedicate focused attention on the matters of electric vehicles (EV) infrastructure, photo-voltaic installation and generation, solar storage technology, and building electrification. The Los Angeles City power profile is stark: over 7880 GW total capacity, over 3600 miles of transmission lines into the city, over 10,400 miles of distribution citywide, and all in a city with over 4 million city residents.

Much work is needed in order to prepare today's power grid for an electrified city of the future. The City must be prudent and practical to be effective as it moves forward, yet act with urgency to combat climate change, a warming planet and offset urban heat mitigation. One evident fact remains that the systems and equipment in place now are inadequate to meet our future goals. In particular, the goal of electrification requires a power grid that is more technologically advanced, possibly decentralized, in order to meet the demands of a renewable portfolio. It would be helpful if DWP can provide an outline to the City of how Los Angeles will reach this goal. This plan should take into account citywide building energy electrification and decarbonization (CF: 21-1039), the EV Master Plan process (CF: 21-0890), and the recently introduced effort to end all gas powered equipment, appliance and vehicle purchases for all city departments.

Internally, the City Council is working to create green, sustainable and organized city departments that are ready for the practical questions on decarbonization, including equipment/appliance and vehicle procurement. The Department of Water and Power should report on the grid needs of today and tomorrow, with a focus on outreach and disadvantaged communities. Moreover, a new and efficient approach to all city electrification and solarization is needed, which includes practical electrical needs, statutory and legal frameworks for the modern city and grid of the future.

I THEREFORE MOVE that the Department of Water and Power (DWP) report on the needs to improve the Los Angeles power grid infrastructure (transmission and distribution) to properly facilitate future investments into sustainable energy methods such as but not limited to electrification, distributed energy resources, energy storage, and micro-grids, and that said report also identify: a) LADWP current planned infrastructure investments, operational challenges in current and future facilities, equipment needs, and especially labor needs (in-house and contractors); b) environmental regulations or other statutory, legal obstacles; and, c) a timeframe for urgent, immediate, medium and long term improvement needs related to the power grid's infrastructure

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I FURTHER MOVE that the Bureau of Engineering, with the assistance of the Department of Water and Power, General Services Department and City Administrative Office, conduct an analysis on the electrical load and upgrades needed for all city and city-propietary departments, in order to prepare all city buildings and facilities for full electrification and decarbonization, and report back with partnership opportunities with all City agencies related to commercial electrification

I FURTHER MOVE that the Department of Water and Power, and the CAO, with the assistance of the City Attorney report to Council with a new All-City master MOU, including but not limited to solar electrification, electrical load needs, grid connected / distributed energy resources, energy storage, and all other power grid / city connected components for all city departments, including the Port of Los Angeles Department and the Los Angeles World Airport Department

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