

**RESOLUTION NO. 16-020**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF VICTORVILLE, CALIFORNIA, SUPERSEDING RESOLUTION NO. 14-064, REVISING THE TARGETS FOR VICTORVILLE MUNICIPAL UTILITY SERVICES TO PROCURE COST-EFFECTIVE ENERGY STORAGE SYSTEMS**

**WHEREAS**, State Assembly Bill 2514 (Chapter 469, Statutes of 2010) (“AB 2514”) added sections 2835 and 2836 to the Public Utilities Code regarding energy storage systems; and

**WHEREAS**, Section 2836 (b) (1) of the Public Utilities Code requires the governing board of each local publicly owned electric utility (“POU”) to initiate a process to determine appropriate targets, if any, for the POU to procure viable and cost-effective energy storage systems to be achieved by December 31, 2016, and December 31, 2020; and

**WHEREAS**, Section 2836 (b) (2) of the Public Utilities Code requires the governing board of each POU to adopt energy storage procurement targets, if determined to be appropriate, by October 1, 2014; and

**WHEREAS**, the City of Victorville (“City”) operates a municipal electric utility known as Victorville Municipal Utility Services (“VMUS”), and VMUS is generally subject to the legislative and regulatory requirements applicable to POU’s; and

**WHEREAS**, the Victorville City Council, serving as the governing board for VMUS, adopted Resolution No. 14-064 on September 16, 2014, establishing energy storage targets equal to one percent (1%) of VMUS’ peak load during calendar years 2015 and 2020, with installations occurring no later than the end of calendar years 2016 and 2021, respectively; and

**WHEREAS**, Section 2836 (b) (3) of the Public Utilities Code requires the governing board of each POU to reevaluate energy storage targets not less than once every three years; and

**WHEREAS**, Section 9506 of the Public Utilities Code requires each POU to report to the California Energy Commission the energy storage system procurement targets, if any, adopted by the POU’s governing board, along with any modifications made to such targets as a result of reevaluation; and

**WHEREAS**, to conform to Public Utilities Code sections 2836 (b) (1) and 2836.6, staff recently reevaluated the viability and cost-effectiveness of applicable energy storage technologies to serve VMUS customers based on costs, load forecasts, potential on-site customer generation and market alternatives; and

**WHEREAS**, based on that reevaluation, staff found that the application of utility-owned and operated energy storage technology to serve VMUS customers over the next three years is more costly than the value of benefits; and

**WHEREAS**, it is anticipated that with the passage of time and improved technology energy storage systems may become cost-competitive with other resources; and

**WHEREAS**, it is recommended that VMUS rescind the energy storage target for cost-effective applications equal to one percent (1%) of VMUS' peak load during calendar years 2015 with installations occurring no later than the end of calendar year 2016; and

**WHEREAS**, the City Council will reevaluate energy storage targets not less than once every three years; however, in the event a cost-effective applicable energy storage application is not identified, the appropriateness of these targets will again be reevaluated by June 2019 and any resulting modifications to the targets will be reported to the California Energy Commission; and

**WHEREAS**, the City Council has reviewed staff's evaluation and recommendation and determined that a target to procure cost-effective energy storage systems equal to one percent (1%) of VMUS' peak load during calendar year 2020, with installations occurring no later than the end of calendar year 2021 remains appropriate.

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF VICTORVILLE DOES HEREBY RESOLVE, DETERMINE AND ORDER AS FOLLOWS:**

**Section 1.** The recitals and findings set forth above are true and correct and are hereby incorporated in their entirety by this reference.

**Section 2.** The energy storage target for cost-effective applications equal to one percent (1%) of VMUS' peak load during calendar year 2015, with installations occurring no later than the end of calendar year 2016, is hereby rescinded.

**Section 3.** To satisfy the obligations of VMUS pursuant to AB 2514, the City Council determines that maintaining the energy storage target for cost-effective applications equal to one percent (1%) of VMUS' peak load during calendar year 2020, with installations occurring no later than the end of calendar year 2021, remains appropriate.

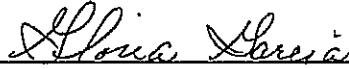
**Section 4.** The City Council will reevaluate energy storage targets not less than once every three years; however, if a cost-effective applicable energy storage application is not identified, the appropriateness of these targets will be reevaluated by June 2019, and any resulting modifications to the targets will be reported to the California Energy Commission.

**Section 5.** This Resolution shall take effect immediately upon its adoption.

**Section 6.** The City Clerk shall certify to the adoption of this Resolution.

Resolution No. 16-020

PASSED, APPROVED AND ADOPTED this 7<sup>th</sup> day of JUNE 2016.



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MAYOR OF THE CITY OF VICTORVILLE

ATTEST:



\_\_\_\_\_  
CITY CLERK

APPROVED AS TO FORM:



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CITY ATTORNEY

I, CAROLEE BATES, City Clerk of the City of Victorville and ex-officio Clerk to the City Council of said City, DO HEREBY CERTIFY that the foregoing is a true and correct copy of Resolution No. 16-020 which was adopted at a meeting held on the 7<sup>th</sup> day of June 2016, by the following roll call vote, to wit:

AYES: Councilmembers Garcia, Kennedy, McEachron and Negrete

NOES: NONE

ABSENT: Councilmember Cox

ABSTAIN: NONE



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CITY CLERK



**AGENDA ITEM**

**WRITTEN COMMUNICATIONS**

CITY COUNCIL / BOARD OF DIRECTORS

MEETING OF: 6/7/2016

SUBMITTED BY: KEITH C. METZLER  
ASSISTANT CITY MANAGER

DATE: 5/17/2016

ATTACHMENT: RESOLUTION NO. 16-020

SUBJECT: **RESOLUTION NO. 16-020 ENTITLED, "A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF VICTORVILLE, CALIFORNIA, SUPERSEDING RESOLUTION NO. 14-064, REVISING THE TARGETS FOR VICTORVILLE MUNICIPAL UTILITY SERVICES TO PROCURE COST-EFFECTIVE ENERGY STORAGE SYSTEMS"**

RECOMMENDATION:

That the Honorable City Council adopt Resolution No. 16-020, superseding Resolution No. 14-064 and revising the energy storage targets for Victorville Municipal Utility Services (VMUS) in accordance with the requirements of the state of California's energy storage law under Assembly Bill 2514 (AB 2514).

DISCUSSION:

AB 2514 required the governing board of each publicly-owned utility (POU) to "determine appropriate targets, if any, for the utility to procure viable and cost-effective storage systems to be achieved by December 31, 2016, and December 31, 2021." As the governing board for VMUS, the City Council adopted Resolution No. 14-064 on September 16, 2014, establishing targets for VMUS to procure cost-effective energy storage applications equal to one percent (1%) of its peak load during calendar years 2015 and 2020, with installations occurring no later than the end of calendar years 2016 and 2021, respectively. VMUS was required to provide the California Energy Commission (CEC) with the energy storage procurement targets adopted under Resolution No. 14-064 and the City Council must reevaluate its determination for an energy storage procurement target not less than once every three years. VMUS must notify the CEC of any subsequent modifications made to such targets as a result of reevaluation and must also report to the CEC on the progress toward meeting the established targets by January 1, 2017, and January 1, 2022.

As defined by AB 2514, an energy storage system must absorb energy, store it for a period of time, and then dispatch the stored energy. Energy storage procurement also includes the use of energy storage devices that are owned by customers or other third

parties. An energy storage system must be cost effective and either: 1) reduce emissions of greenhouse gases; 2) reduce demand for peak electrical generation; 3) defer or substitute for an investment in generation, transmission, or distribution assets; or 4) improve the operation of the electrical transmission or distribution grid. The performance and location of an energy storage system determine the services it can provide. An energy storage system is rated according to both how much power it can absorb and supply (kilowatt or kW), and the duration for which it can supply its rated power (kilowatt-hour, or kWh). Other performance characteristics include the energy loss between charging and discharging, time required to reach the desired power level and the number of charge/discharge cycles before replacement is required.

Rechargeable batteries are the most commonly known energy storage technology. The installed cost of lithium-ion batteries has declined by 11 percent (11%) over the past two years, and the current estimate for an energy storage lithium-ion battery equal to one percent (1%) of the VMUS peak load is \$55,200 or \$0.38/kWh. Given the City's recent purchase of system energy for roughly \$0.03/kWh, the current cost of utility-owned and operated energy storage exceeds the value of the benefit it would provide. Therefore, it has been determined that it is not cost-effective to implement the energy storage target established for the end of calendar year 2016. However, with the expected improvement in technology and demand for more efficient batteries, it is anticipated that capital costs will continue to decline over the next several years and that energy storage systems may become more commercially tested and cost-competitive with other resources.

In order to capture future potential market opportunities, it is recommended that the City Council adopt Resolution No. 16-020 to supersede Resolution No. 14-064 and revise the targets for VMUS to procure cost-effective energy storage applications. This recommendation includes rescinding the target for VMUS to procure cost-effective energy storage applications equal to one percent (1%) of its peak load during calendar year 2015, with installations occurring no later than the end of calendar years 2016, but maintains the target for VMUS to procure cost-effective energy storage applications equal to one percent (1%) of its peak load during calendar year 2020, with installations occurring no later than the end of calendar years 2021. VMUS will continue to monitor the cost-effectiveness of energy storage and the City Council will reevaluate these energy storage targets not less than once every three years. However, in the event a cost-effective applicable energy storage application is not identified, the appropriateness of these targets will be reevaluated by June 2019, and any resulting modifications to the targets will be reported to the CEC.

KCM:jd