

8/28/18

Item 4
18-756

City of Santa Clara

City Council Meeting

Item 4 18-756

Action on the Renewable Power Purchase Agreement with Viento Loco Wind LLC

August 28, 2018



City of
Santa Clara
The Center of What's Possible

Viento Loco Wind PPA Summary

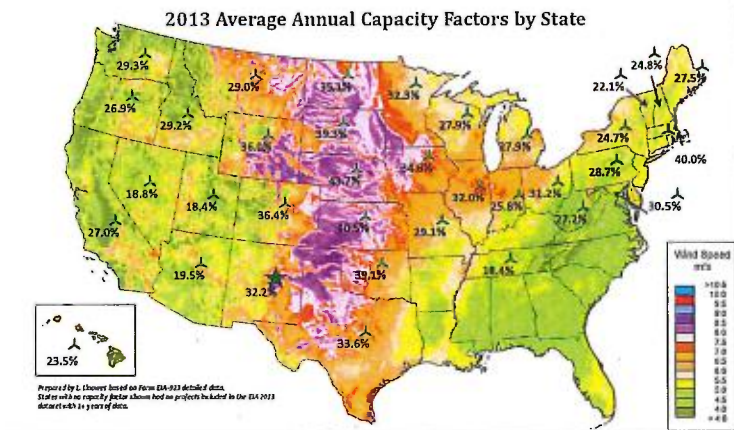
- 200 MW New Mexico Wind Resource
- Location: Near Lincoln County, NM
- 20 Year Power Purchase Agreement
- Purchase Cost approximately \$28.2M/year
- Delivered through new SunZia 500kV transmission lines
- Interconnection into the California Independent System Operator (CAISO) at Palo Verde Hub
- Commercial Operation December 2021



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Viento Loco Wind Energy Resource

- New Mexico Resource Among Best in the Country
- New Mexico Wind has a higher Capacity Factor (NM 33% vs. CA 27%)
 - Capacity Factor: ratio of actual energy produced by a resource to the theoretical maximum output if generated fully and continuously during the same time period.
 - 23% more actual power produced in NM vs. CA

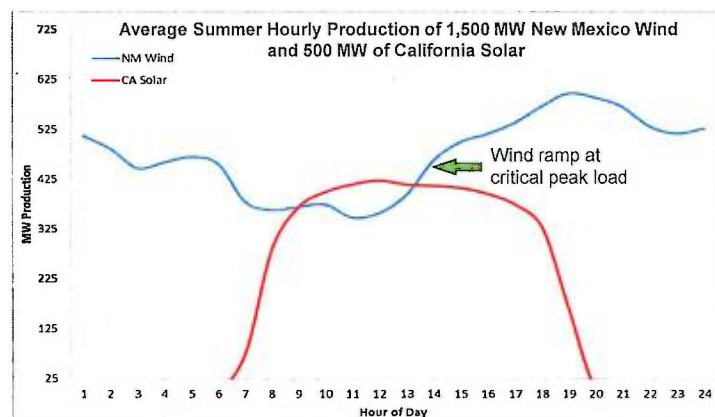


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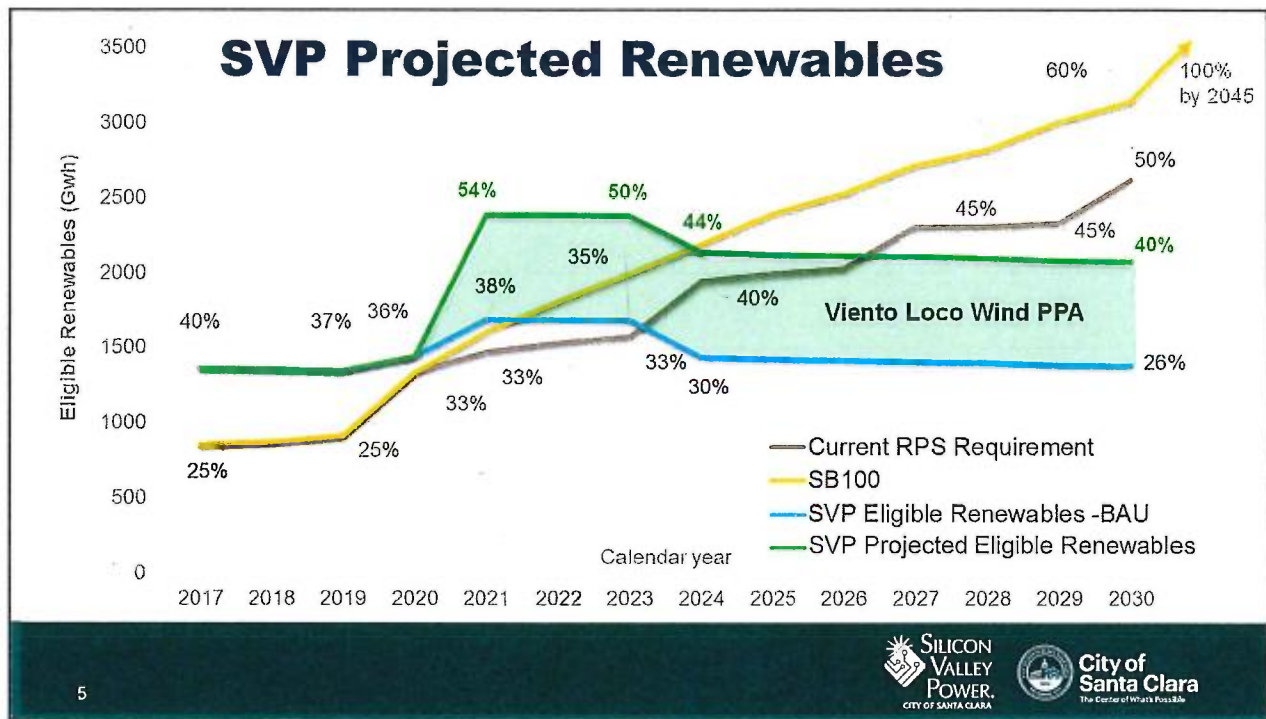
Viento Loco Wind complements CA Solar

- New Mexico Wind complements California Solar
- NM Wind Profile ramps up during California's critical evening hours
- New Mexico Wind generation peaks as California solar generation diminishes providing important resource to the grid.



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Viento Loco LLC Project Developer Pattern Energy

- Pattern Energy is a U.S. based independent renewable company, specializing in wind, solar, storage and transmission
- Develop, construct, own and operate renewable energy and transmission assets in United States, Canada, Mexico, Chile and Japan
- Operate 4,000 MW and their development pipeline exceeds 10 GW of wind and solar power projects as well as large scale transmission projects
- Pattern Energy's primary entities are Pattern Developments and Pattern Energy Group which owns and operates the projects.



SVP Increases Renewable Resources

Diverse Portfolio

- Type
- Location
- Ownership

LEGEND



SVP Jointly Owned Transmission Projects

California-Oregon Transmission Project

Tesla-Mitsubishi Transmission Service

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ELECTRIC RESOURCE MAP

IN TOWN RESOURCES Santa Clara, CA

- Donat Von Raesfeld Power Plant | 147 MW
- Cogeneration Plant #1 | 7 MW
- Glanera Generating Station | 24.5 MW
- 230 kV Transmission Line | 400 MW Capacity
- Jenny Strand Solar PV System | 100 kW
- Tasman Parking Structure Solar PV | 200 kW
- Ameresco Santa Clara Landfill Gas | 750 kW

