



Enel Green Power North America – Goleta Grid Resiliency Energy Storage Project

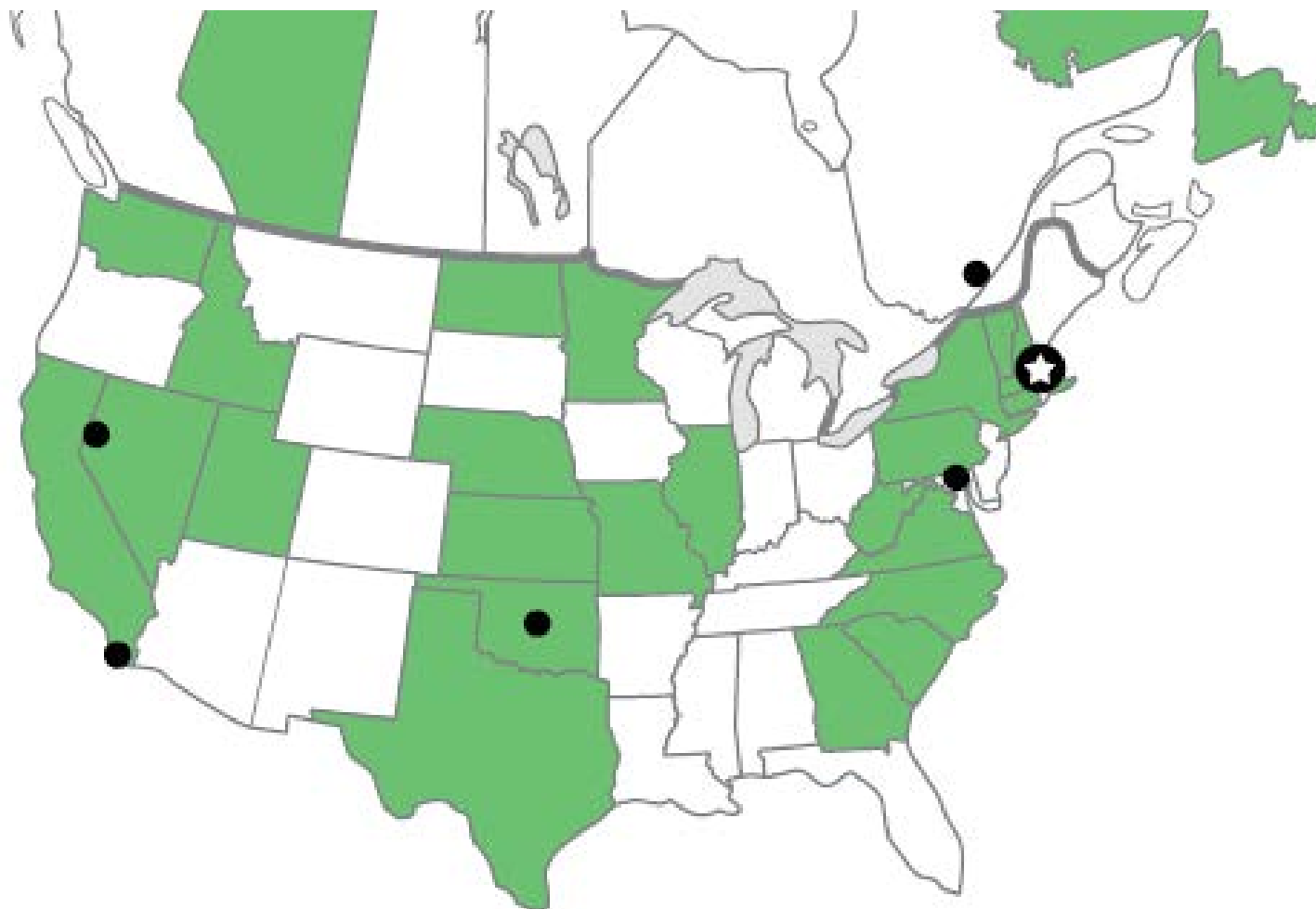
Project Overview

May 2019



Enel Green Power North America

Project Portfolio by State



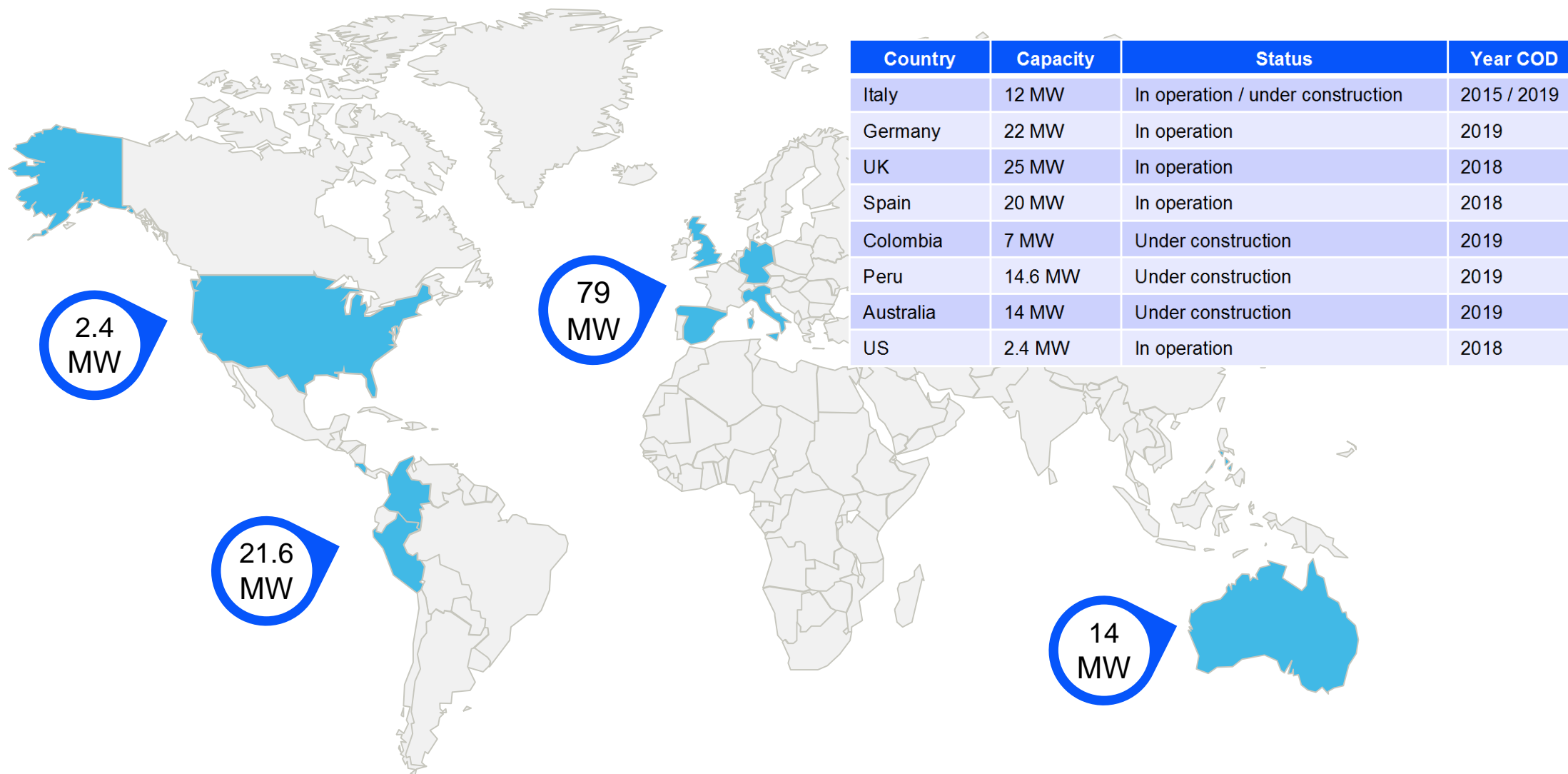
EGP Renewable Energy Power Plants in North America

Alberta, Canada: 76 MW		New Hampshire: 1 MW	⚡
California: 13 MW	⚡	New York: 55 MW	⚡
Connecticut: 4 MW	⚡		☁
Georgia: 1 MW	⚡	North Carolina: 2 MW	⚡
Idaho: 35 MW	⚡	North Dakota: 150 MW	☁
Illinois: 185 MW	☁	Oklahoma: 1.72 GW	☁
Kansas: 1.1 GW	☁	Pennsylvania: 1 MW	⚡
	300 MW	South Carolina: 16 MW	⚡
Massachusetts: 35 MW	⚡	Texas: 63 MW	☁
Minnesota: 230 MW	☁	Utah: 25 MW	⚡
	150 MWdc		☀
Missouri: 300 MW	☁	Vermont: 27 MW	⚡
Nebraska: 320 MW	☁		☀
Nevada: 47 MW	⚡	Virginia: 5 MW	⚡
	27 MW	Washington: 24 MW	⚡
Newfoundland, Canada: 27 MW	☁	West Virginia: 80 MW	⚡

★ **North America Headquarters** Andover, MA

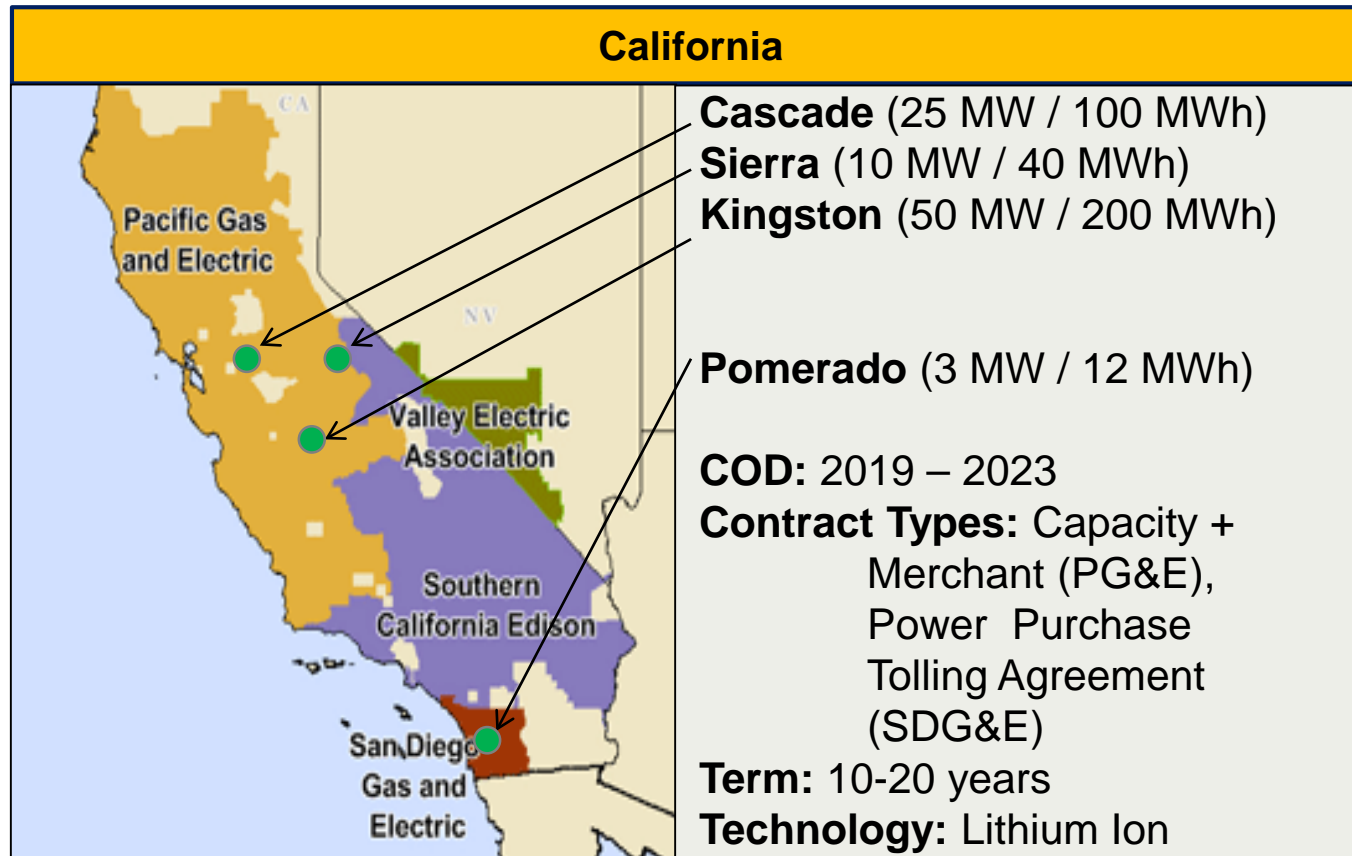
● **Regional Offices**
 Montreal, Canada
 Oklahoma City, OK
 Reno, NV
 San Diego, CA
 Washington, D.C.

Enel global energy storage footprint



California Energy Storage Portfolio

Projects under Contract



SCE Request For Proposal (RFP)



The project is in response to the SCE Moorpark Local Capacity Requirements/Goleta Resiliency:

Goals of the RFP:

- *Meet the long-term local capacity requirements (“LCR”) in the Goleta*
- *Enhance the resiliency in the Goleta system given the potential grid disruptions from failure of the high-voltage transmission lines. Goleta is located at the end of the SCE transmission system and susceptible to long outages due to the challenging terrain through the Santa Ynez mountains and potential wildfire risk*

Additional Benefits

- *Energy Storage help increase utilization of renewable energy by enabling people to use sustainable power when the sun isn't shining and wind isn't blowing*
- *If this solicitation from SCE is successful, the new energy storage projects will supplant the need for the Elwood gas-fired peaker plant. Our project will provide the same critical grid services that this plant currently provides*

Goleta Load Pocket



- The Goleta Load Pocket (GLP) spans 70 miles of California coastline, from Point Conception to Lake Casitas, encompassing the cities of Goleta, Santa Barbara (including Montecito), and Carpinteria
- The GLP is completely grid-dependent, generating very little of its own power
- SCE has identified these transmission lines as being at risk for catastrophic failure from fire, earthquake, or heavy rains and landslides



Five factors the City Council must consider for the initiation of a GPA



1. The amendment proposed appears to be consistent with the Guiding Principles and Goals of the General Plan

- *From the Goleta General Plan Section 2.2 “Guiding Principles and Goals” as referred to under land use:*
 - #5 Manage the types, amounts, and timing of future growth based on maintenance of service levels and quality of life – **Our project will increase electric service & reliability, which is directly related to quality of life**
 - #9 Ensure that the locations, amounts, and timing of new development are consistent with resource and service constraints, including, but not limited to, transportation infrastructure, parks, water supply, sewer system capacity, and energy availability – **Our project will directly alleviate the electric service constraint**
 - #10 Ensure that all new development and changes to existing development are compatible with the character, scale, and design of the neighborhood – **We are helping to transition from a natural gas burning facility to a clean energy facility, while ensuring the same level of local electric reliability**
 - #11 Influence future land use changes in nearby areas outside Goleta to avoid, lessen, and/or mitigate impacts within the city – **Our project will have a regional benefit of providing electric reliability to the entire Goleta Load Pocket (Santa Barbara, Montecito, Carpinteria and Gaviota)**

Five factors the City Council must consider for the initiation of a GPA (continued)



2. *The amendment proposed appears to have no material effect on the community or the General Plan – **Our project will be an unmanned facility, 24/7/365 remotely monitored and operated, requiring limited maintenance and only project specific infrastructure upgrades***
3. *The amendment proposed provides additional public benefit to the community as compared to the existing land use designation or policy – **Our project will be providing critical electric reliability services***
4. *Public facilities appear to be available to serve the affected site, or their provision will be addressed as a component of the amendment process – **All required infrastructure is currently present. This is one of a few available sites that fit our requirements (i.e. available land, adjacent to medium voltage electrical infrastructure, no environmental concerns, adjacent to existing gas generator, etc.)***
5. *The amendment proposed is required under other rules or regulations – **Not applicable, but highly encouraged by other public planning entities, such as CPUC, CAISO and SCE.***