



LODI CITY COUNCIL

Carnegie Forum
305 West Pine Street, Lodi

"SHIRTSLEEVE" SESSION

Date: June 4, 2013

Time: 7:00 a.m.

For information regarding this Agenda please contact:

Randi Johl

City Clerk

Telephone: (209) 333-6702

NOTE: All staff reports or other written documentation relating to each item of business referred to on the agenda are on file in the Office of the City Clerk, located at 221 W. Pine Street, Lodi, and are available for public inspection. If requested, the agenda shall be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. To make a request for disability-related modification or accommodation contact the City Clerk's Office as soon as possible and at least 24 hours prior to the meeting date.

Informal Informational Meeting

A. Roll Call by City Clerk

B. Topic(s)

B-1 Receive Status Report on 230kV Interconnection Project (EUD)

C. Comments by Public on Non-Agenda Items

D. Adjournment

Pursuant to Section 54954.2(a) of the Government Code of the State of California, this agenda was posted at least 72 hours in advance of the scheduled meeting at a public place freely accessible to the public 24 hours a day.

Randi Johl
City Clerk



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CITY OF LODI COUNCIL COMMUNICATION

AGENDA TITLE: Status Report on 230 kV Interconnection Project

MEETING DATE: June 4, 2011

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: Receive presentation of the status report on the 230 kV Interconnection Project.

BACKGROUND INFORMATION: At a City Council Shirtsleeve Session held on December 6, 2011 the Electric Utility staff provided a status report regarding the City's electric transmission grid intertie. The presentation also included proposals staff had received from Pacific Gas and Electric Company and the California Independent System Operator (CAISO).

A number of meetings have been held since that time as part of the CAISO's 2012-2013 transmission planning process. This presentation will apprise the Council of the outcome of this process as well as outline the next steps the Electric Utility will be taking regarding the City's transmission grid intertie.

FISCAL IMPACT: Not applicable.

FUNDING AVAILABLE: Not applicable.

Elizabeth A. Kirkley
Electric Utility Director

EAK/lst

APPROVED: _____
Konradt Bartlam, City Manager

June 4, 2013

City Council Shirtsleeve Session

230 kV Interconnection Project



230 kV Interconnection

- Existing 60 kV Grid Intertie
- Transmission Access Charges (TAC)
- PG&E Lockeford-Lodi Area Study
- CAISO Board Approved Projects
- 230 kV Project Timeline
- 230 kV Project Team
- Next Steps – FY 2013/14

Existing 60 kV Grid Intertie

● Reliability

- 4 reported “city-wide” outages in past 7 years, the longest ~2.4 hours

● Capacity

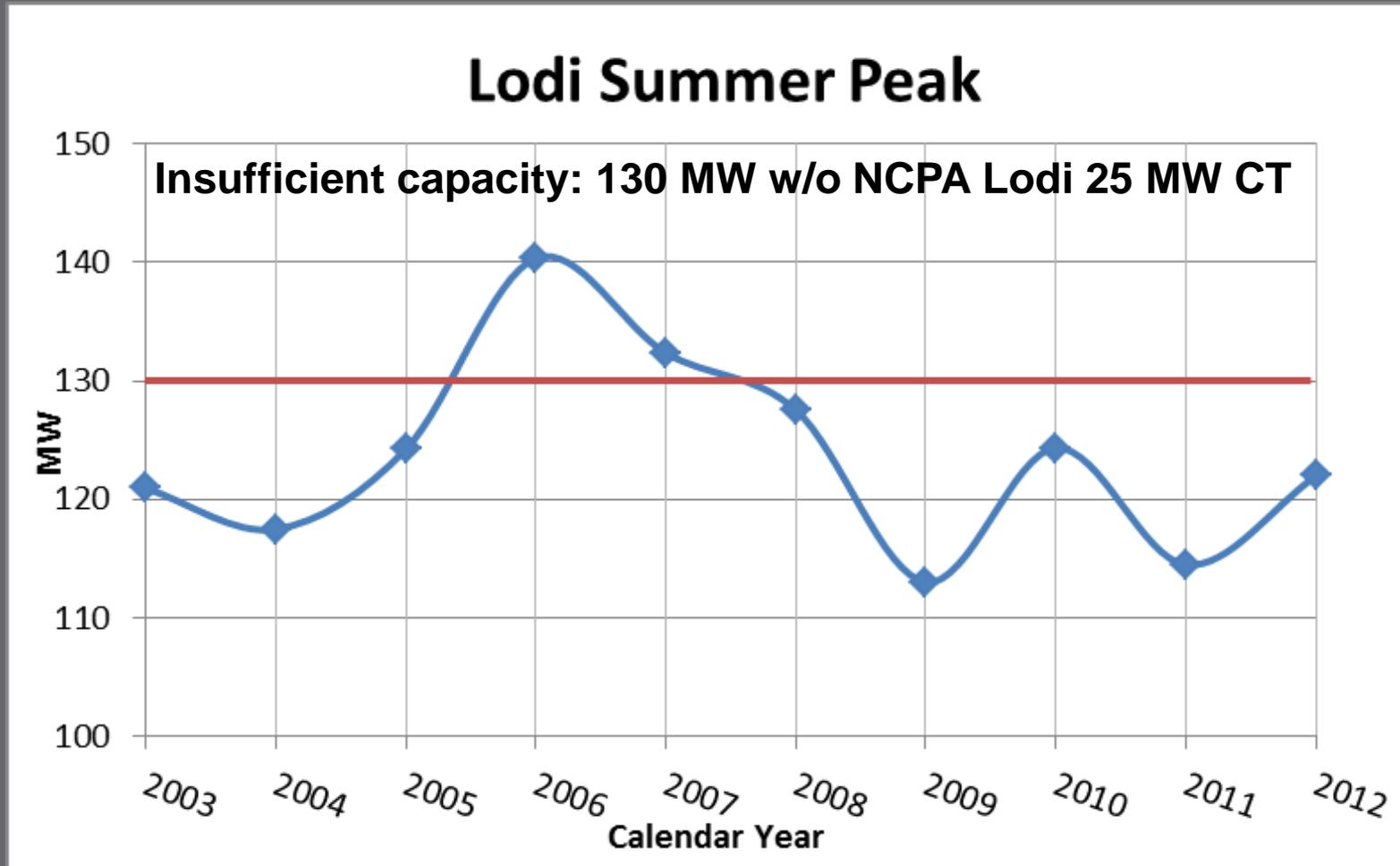
- ~130 MW w/o NCPA’s Lodi CT
- ~152 MW with CT running

● Transmission Access Charges (TAC)

- Low Voltage TAC ~ \$2.5 M annually
- High Voltage TAC ~ \$3 M annually

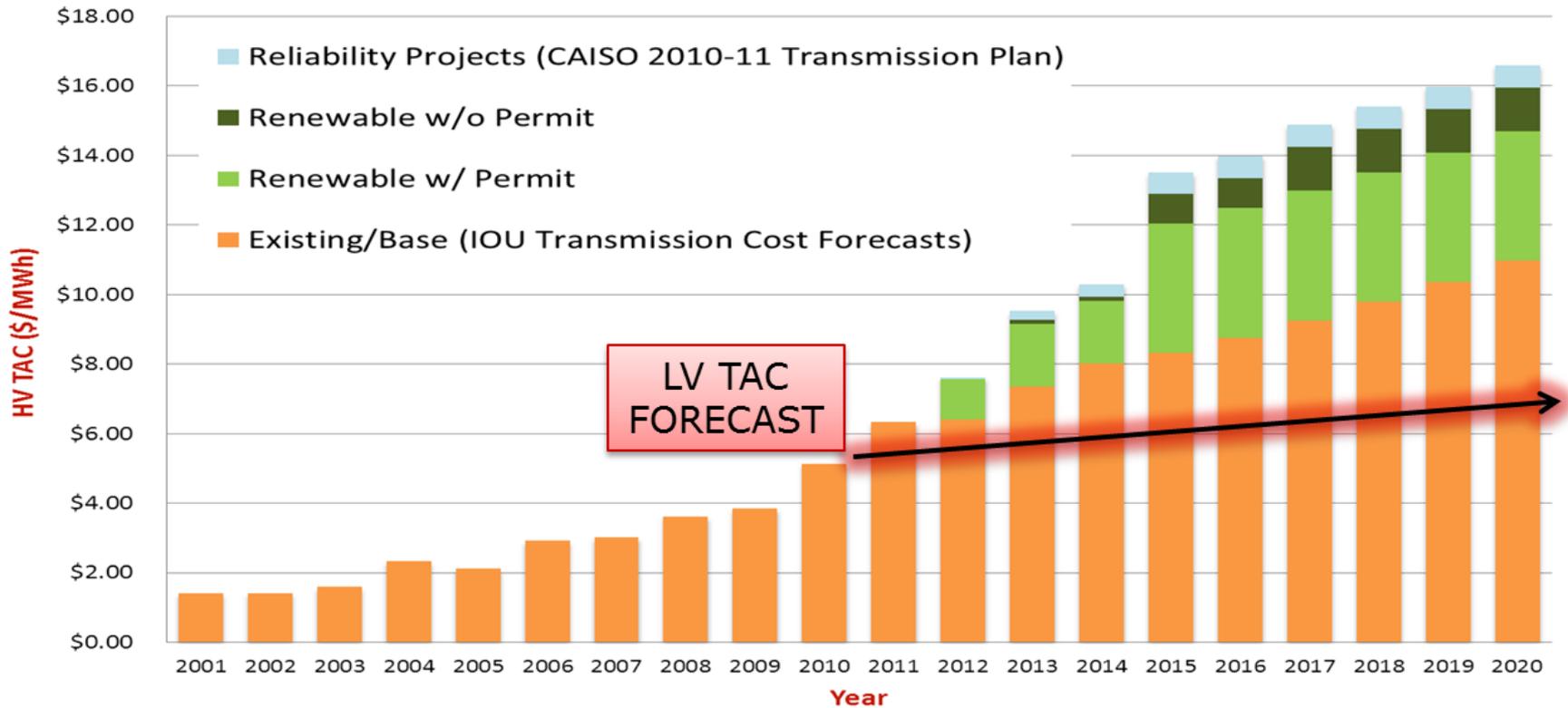


Existing 60 kV Grid Intertie



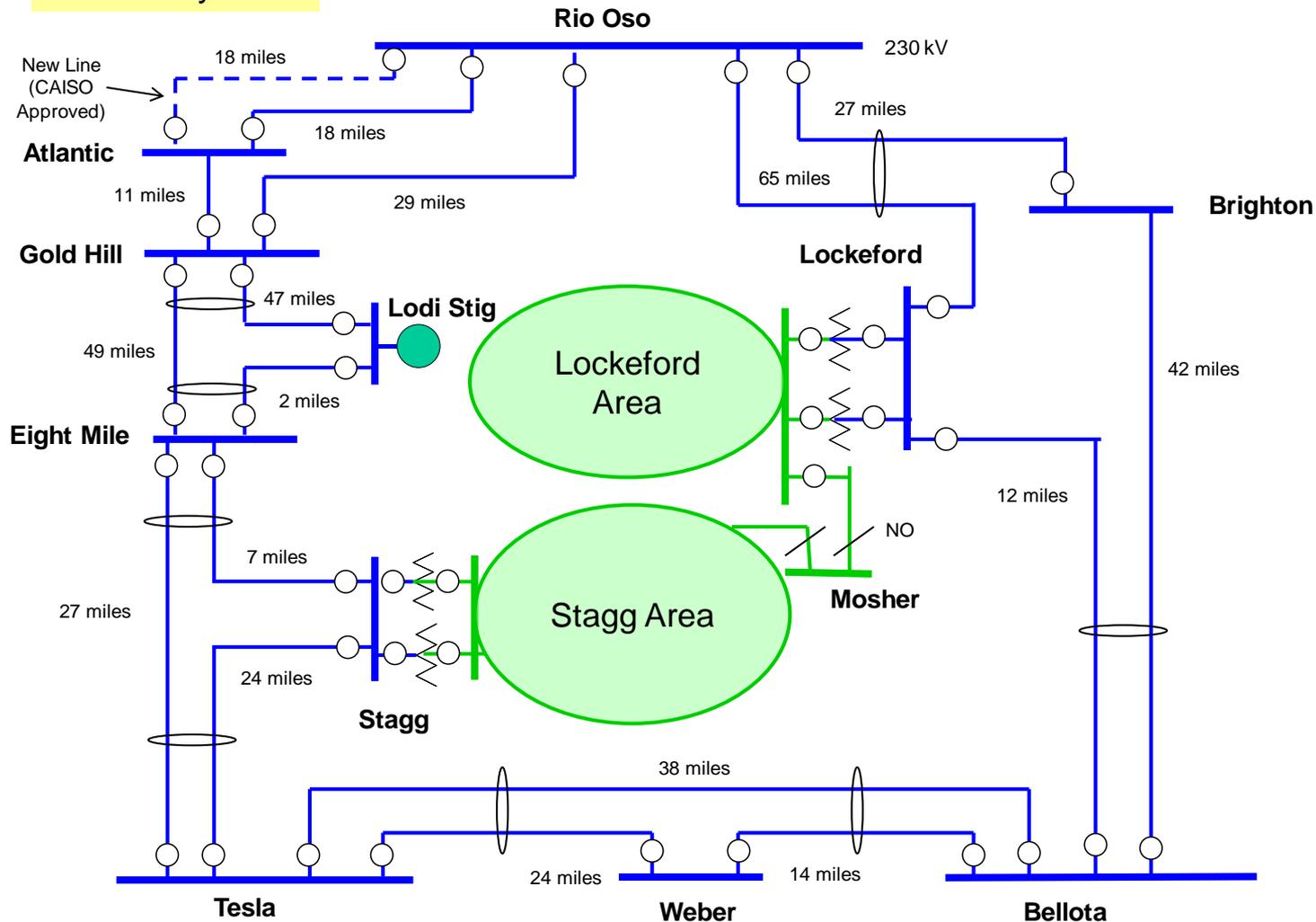
CAISO TAC Forecast

Historical PG&E Area HV TAC (\$/MWh) During 2001-2011 and Projected CAISO-Wide HV TAC (\$/MWh) During 2012-2020 Based on the CPUC/E3 LTPP Evaluation Metric Calculator

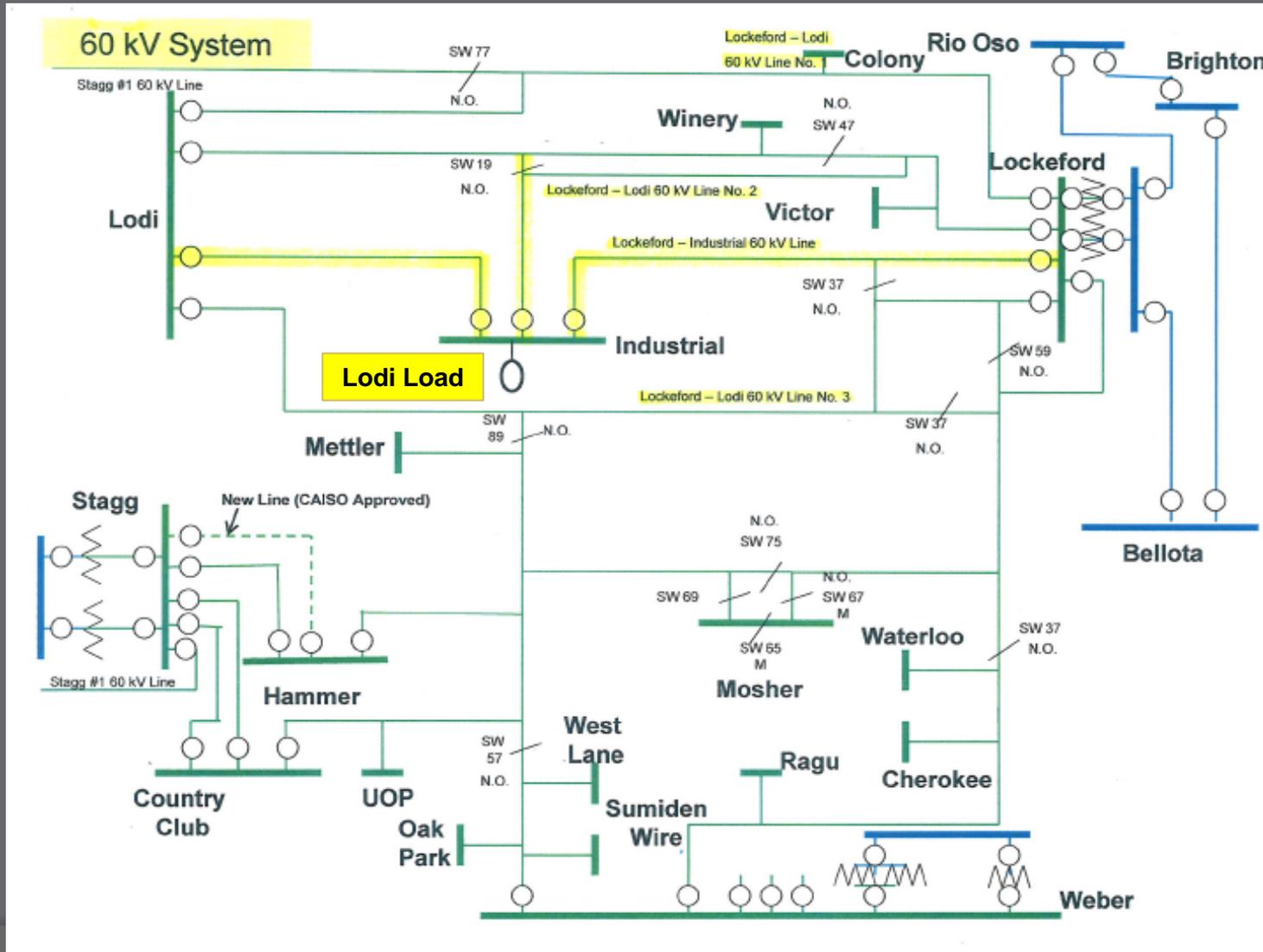


PG&E Lockeford-Lodi Area Study

230 kV System



PG&E Lockeford-Lodi Area Study

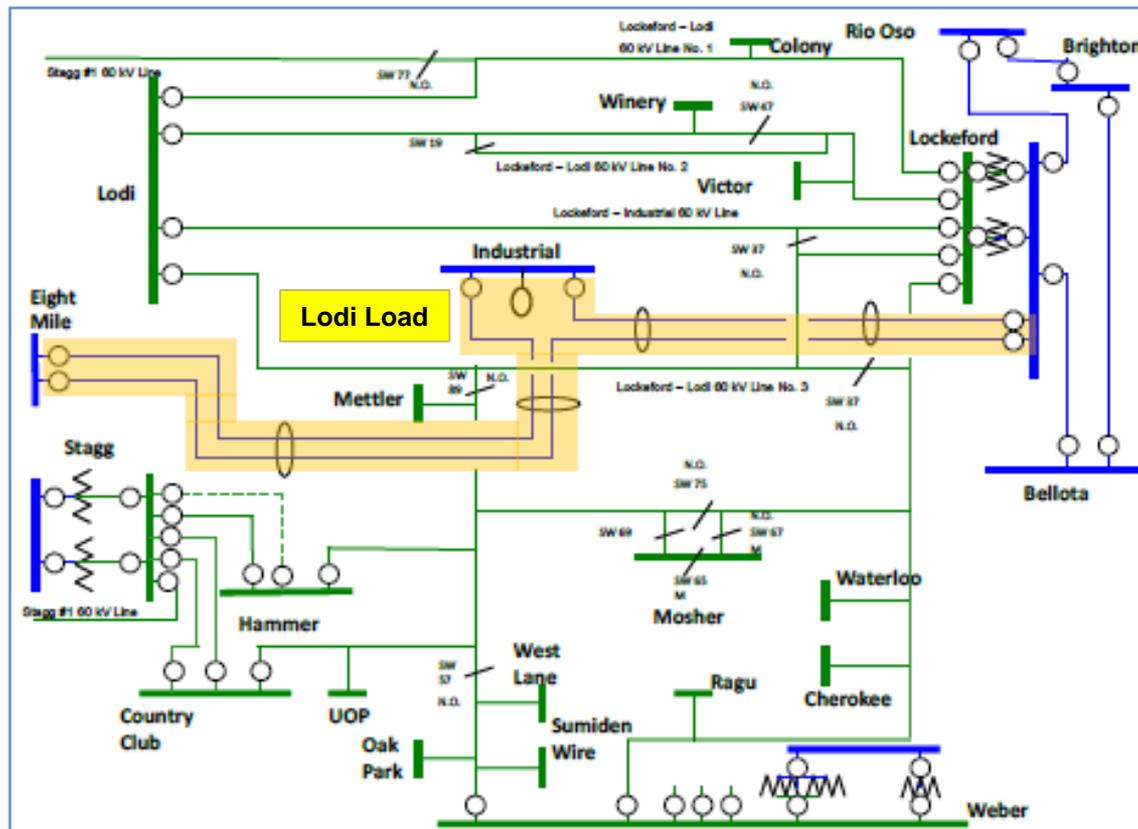


CAISO Board Approved Project for Lodi

2012-2013 ISO Transmission Plan

March 20, 2013

Figure B2.4-3: Proposed Lockeford-Lodi Area 230 kV Development



CAISO Board Approved Reliability Projects

Table 2 – Summary of Needed Reliability Driven Transmission Projects in the ISO 2012-2013
Transmission Plan

Service Territory	Number of Projects	Cost
Pacific Gas & Electric (PG&E)	31	\$1,168 M
Southern California Edison Co. (SCE)	1	\$75 M
San Diego Gas & Electric Co. (SDG&E)	4	\$100 M
Valley Electric Association (VEA)	0	0
Total	36	\$1,343 M



Lockeford-Lodi Area 230 kV Development Project

- Mitigate
 - NERC Category B & C overloads
 - NERC Category B voltage deviations
 - NERC Category C low voltages
- \$80-105 M
- In-service 5/31/2017
- Solve Lodi's capacity (200 MW) & reliability constraints
- Lodi cost ~\$20 M



Industrial Substation Expansion

PROPOSED 230KV SERVICE
TO THE CITY OF LODI
AERIAL VIEW



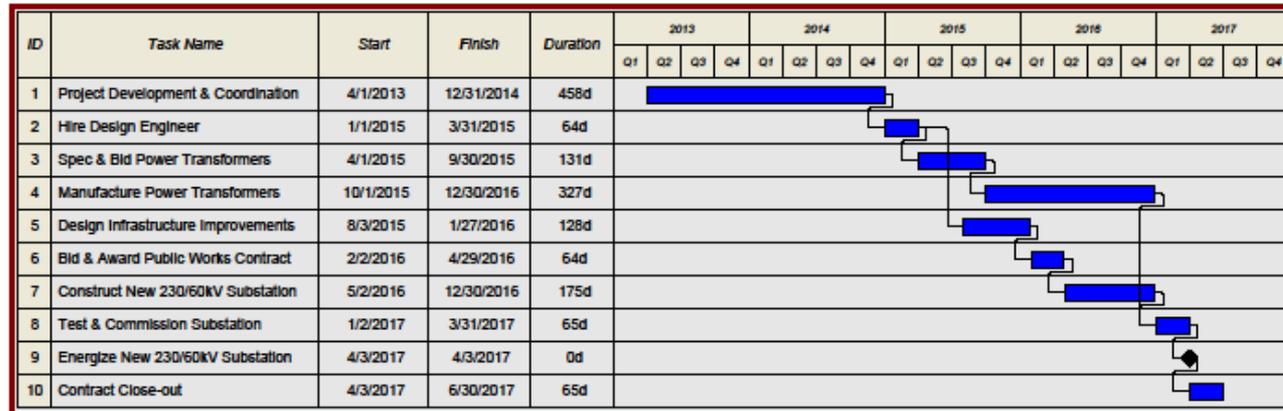
Sketch MK20111108



230 kV Project Timeline

Sunday, March 17, 2013

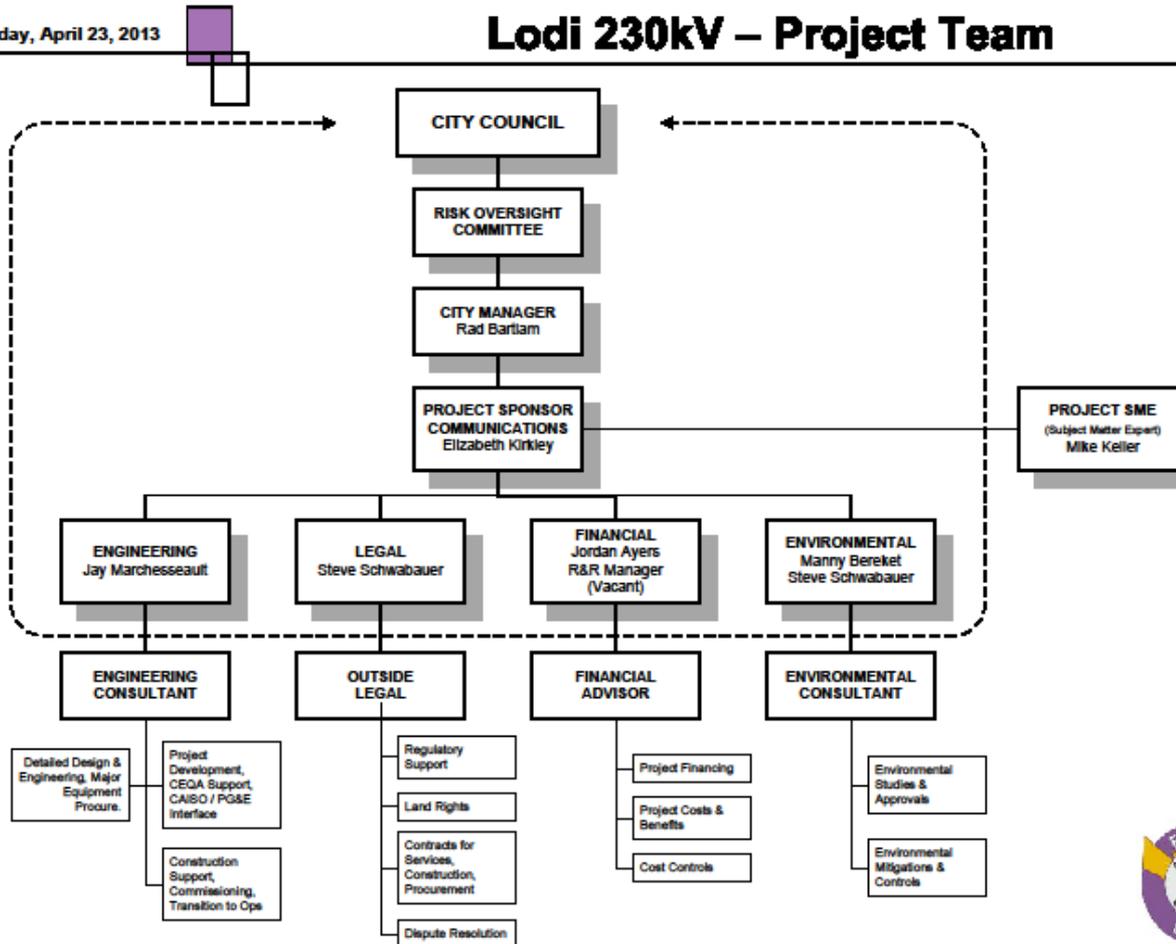
New Industrial 230/60kV Substation



230 kV Project Team

Tuesday, April 23, 2013

Lodi 230kV – Project Team



Next Steps – FY 2013/14

- Lodi Project Team Kick-off Meeting
- City Council approval PSAs
 - Project Subject Matter Expert
 - Engineering Consultant
 - Outside Legal Counsel
 - Financial Advisor
 - Environmental Consultant



