



Natural Gas Infrastructure

Presented at the

California Energy Commission's Committee Workshop on the

Preliminary Electricity and Natural Gas Infrastructure Assumptions

Staff Draft Report

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by

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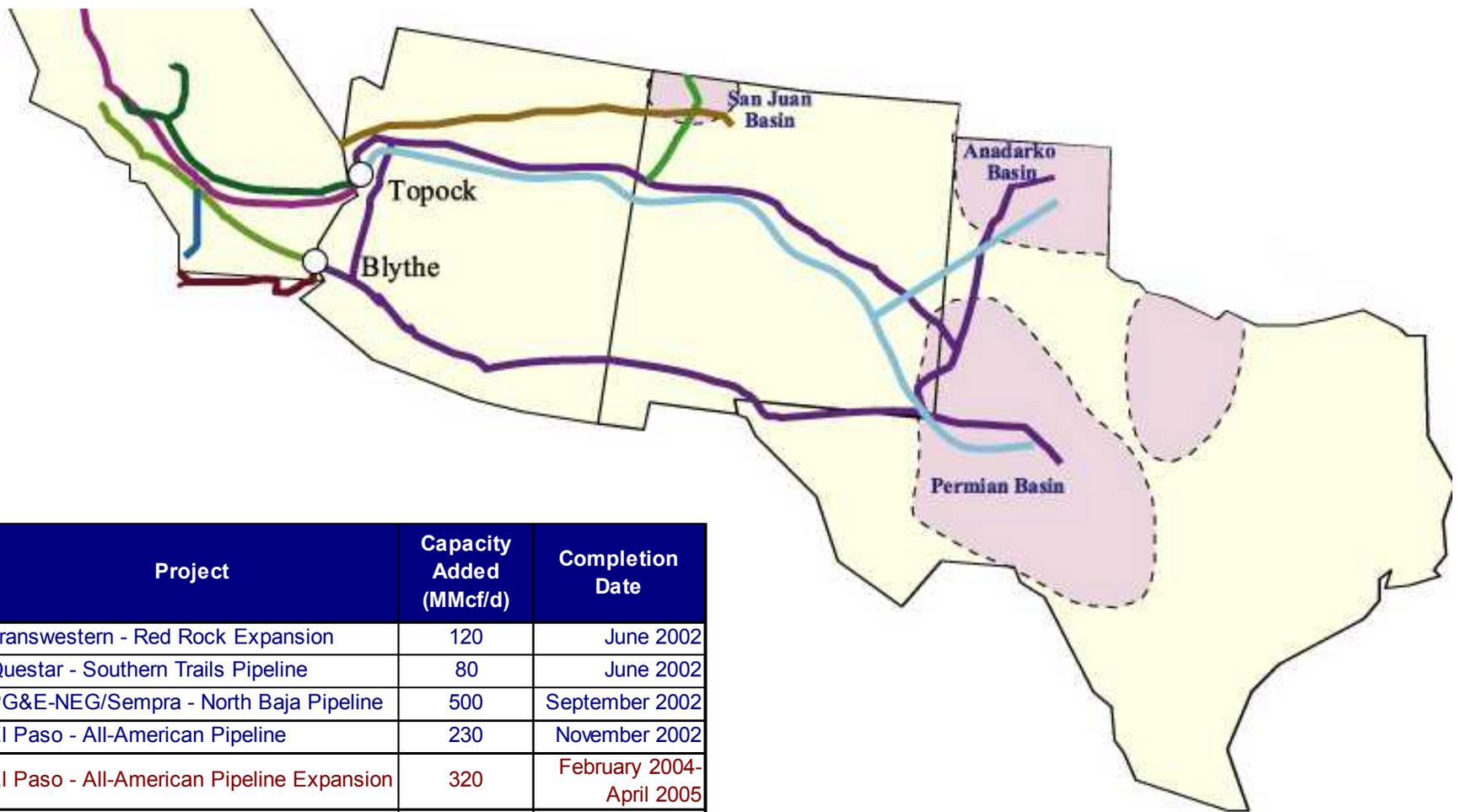


Topics covered:

- ***Interstate pipeline projects***
- ***California's intrastate pipeline infrastructure***
- ***Natural gas storage facilities***
- ***Proposed LNG facilities***



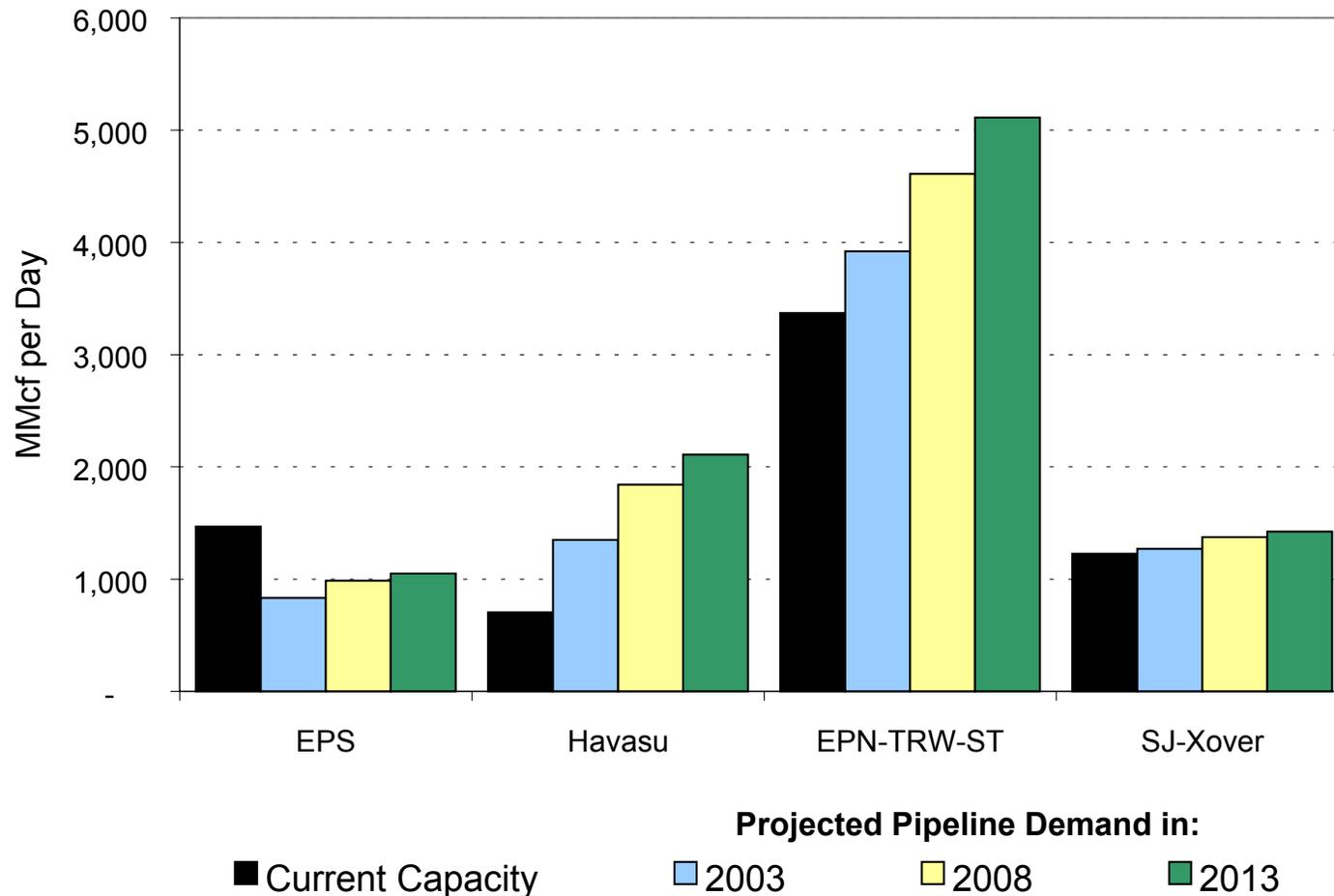
Natural Gas Pipeline Projects in the Southwest Pipeline Corridor



Project	Capacity Added (MMcf/d)	Completion Date
Transwestern - Red Rock Expansion	120	June 2002
Questar - Southern Trails Pipeline	80	June 2002
PG&E-NEG/Sempra - North Baja Pipeline	500	September 2002
El Paso - All-American Pipeline	230	November 2002
El Paso - All-American Pipeline Expansion	320	February 2004- April 2005
El Paso - California Lateral	700	June 2004



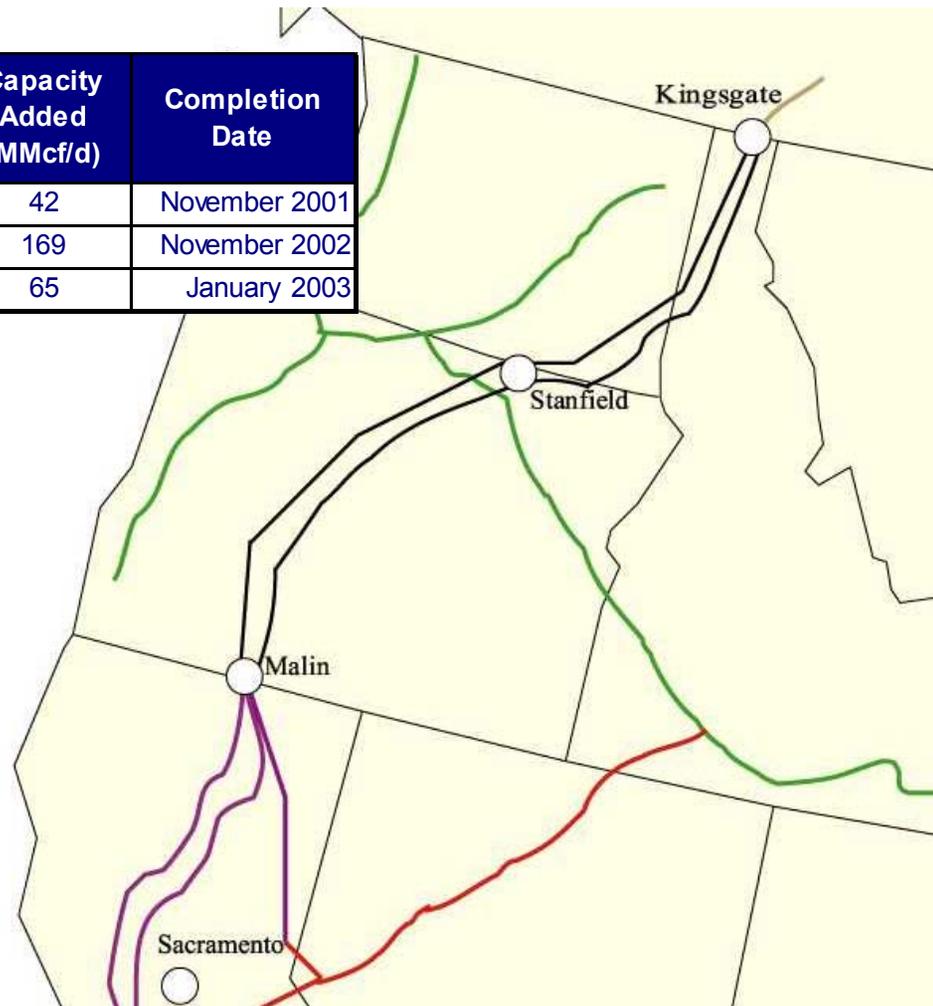
Projected Pipeline Capacity Demand Along the Southwest Pipeline Corridor





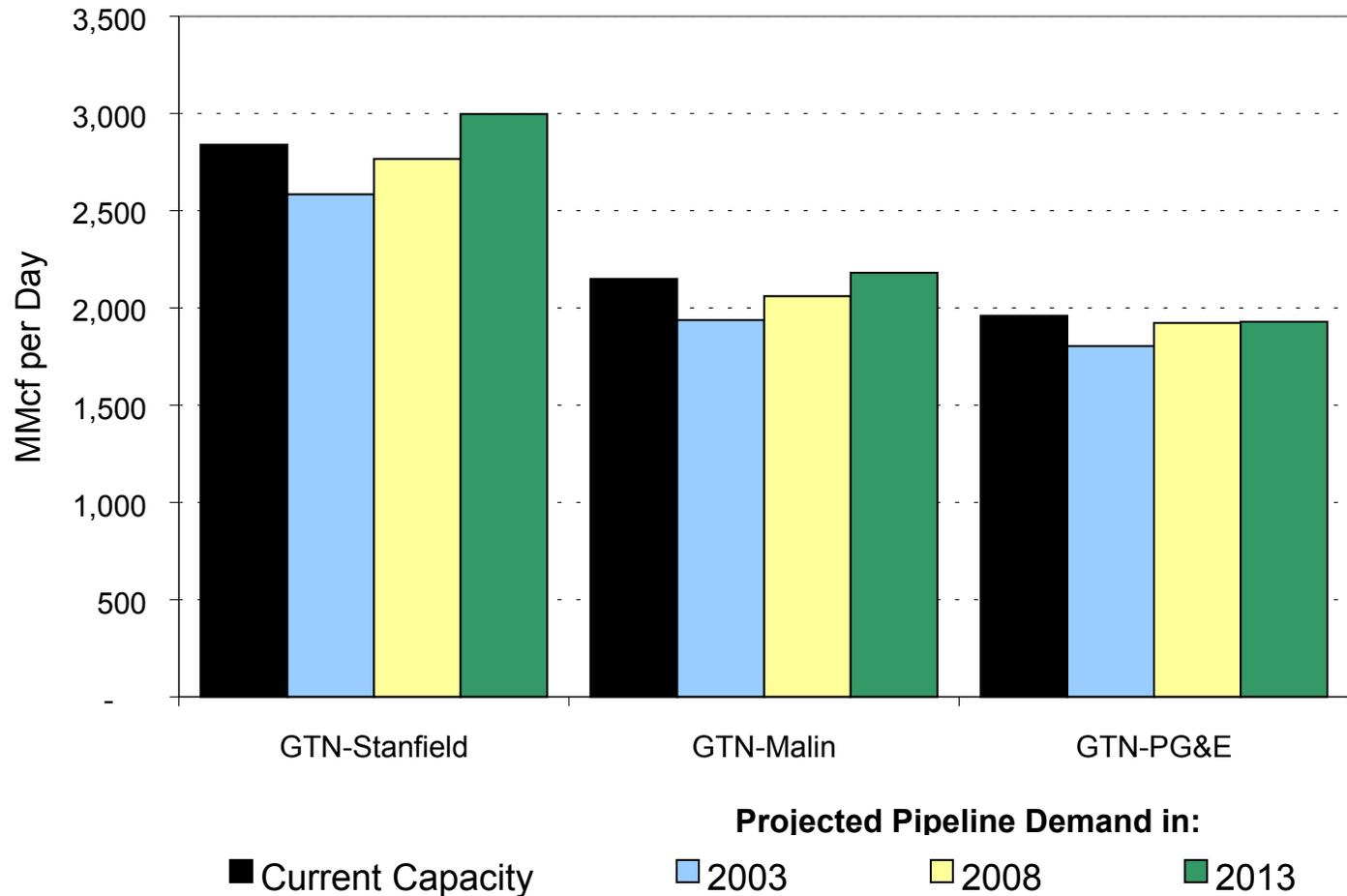
Natural Gas Pipeline Projects in the PG&E-GTN Pipeline Corridor

Project	Capacity Added (MMcf/d)	Completion Date
PG&E-NEG - Gas Transmission Northwest (GTN)	42	November 2001
PG&E-NEG - Gas Transmission Northwest (GTN)	169	November 2002
Sierra Pacific Resources - Tuscarora Pipeline	65	January 2003



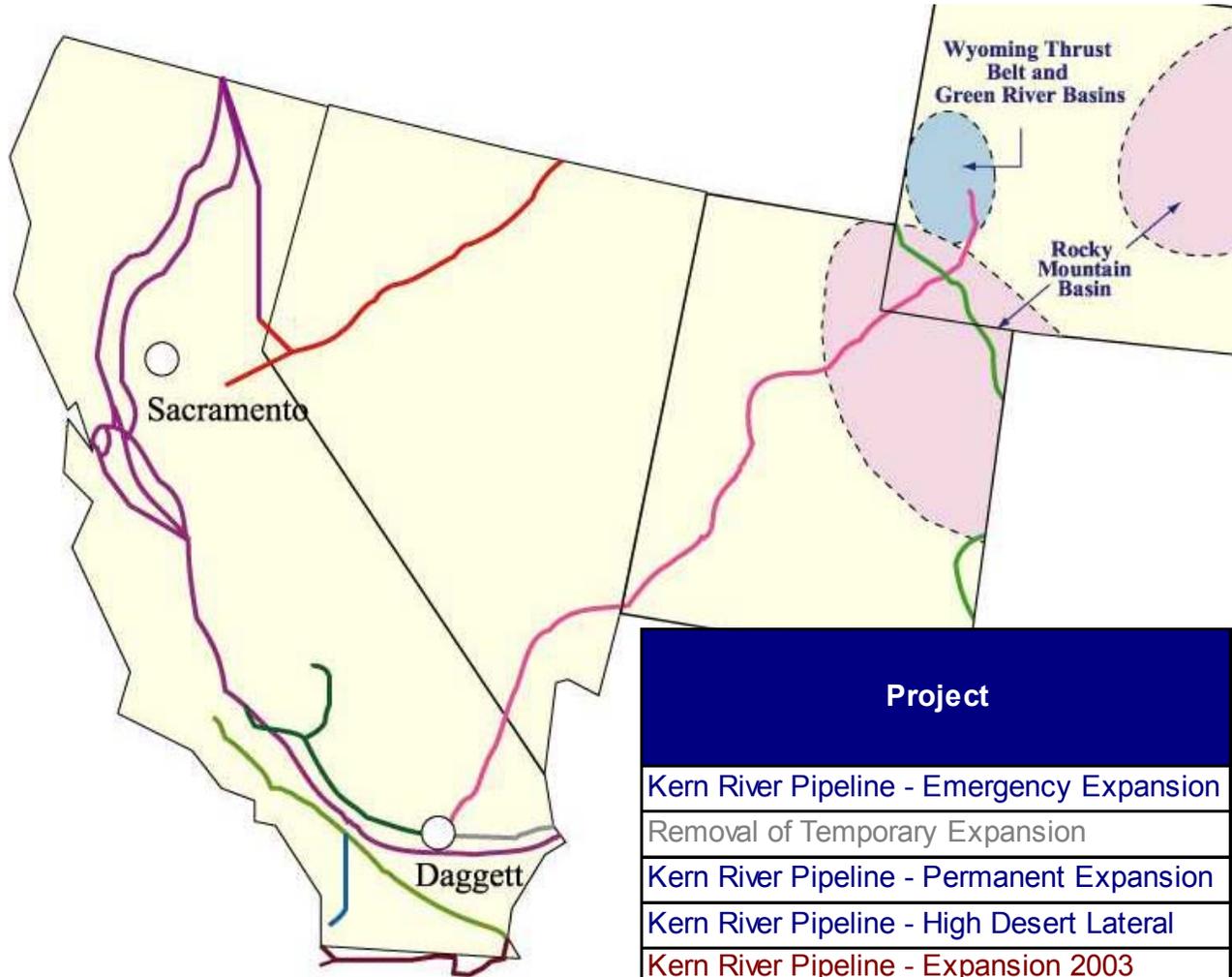


Projected Pipeline Capacity Demand Along the PG&E-GTN Pipeline Corridor





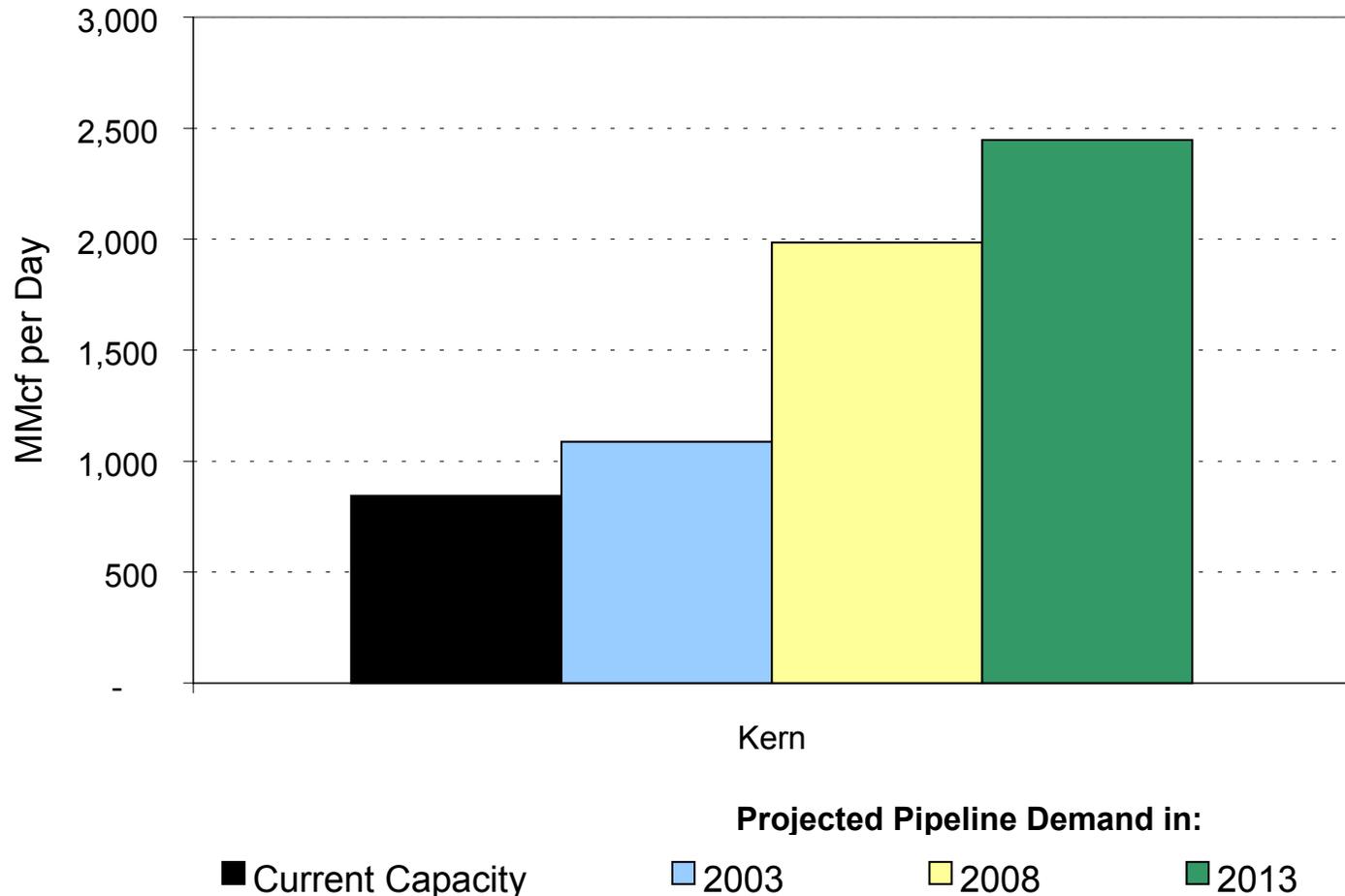
Natural Gas Pipeline Projects in the Kern River Pipeline Corridor



Project	Capacity Added (MMcf/d)	Completion Date
Kern River Pipeline - Emergency Expansion	135	July 2001
Removal of Temporary Expansion	(135)	May 2002
Kern River Pipeline - Permanent Expansion	146	May 2002
Kern River Pipeline - High Desert Lateral	282	September 2002
Kern River Pipeline - Expansion 2003	906	May 2003



Projected Pipeline Capacity Demand Along the Kern River Pipeline Corridor





California's Intrastate Pipeline Infrastructure: the PG&E System



PG&E BACKBONE GAS TRANSMISSION SYSTEM

LEGEND

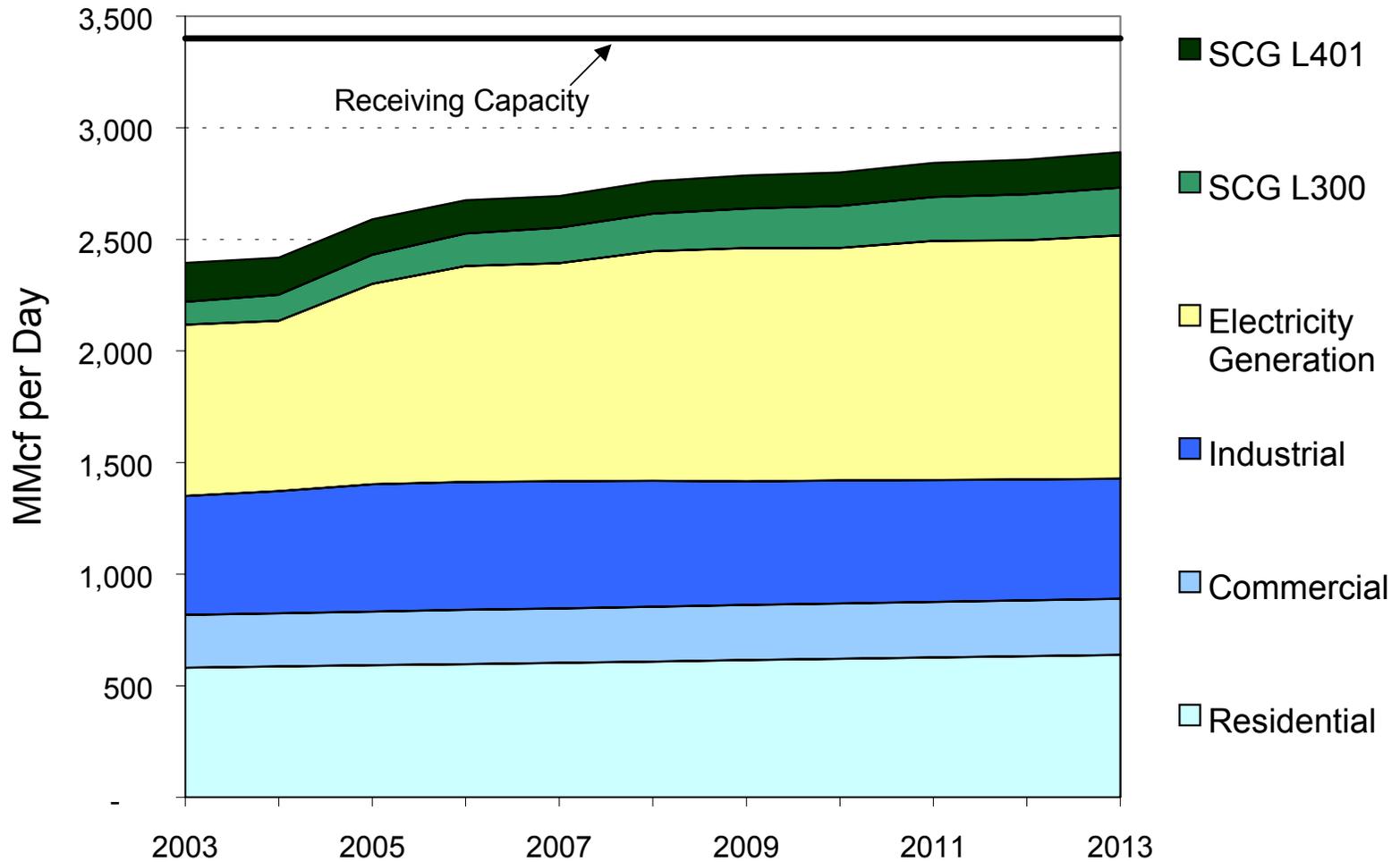
- C Compressor Station
- S Storage Facility
- Terminal / Station

Project	Capacity Added (MMcf/d)	Completion Date
Redwood Path Expansion	179	September 2002

Source: PG&E



PG&E Receiving Capacity





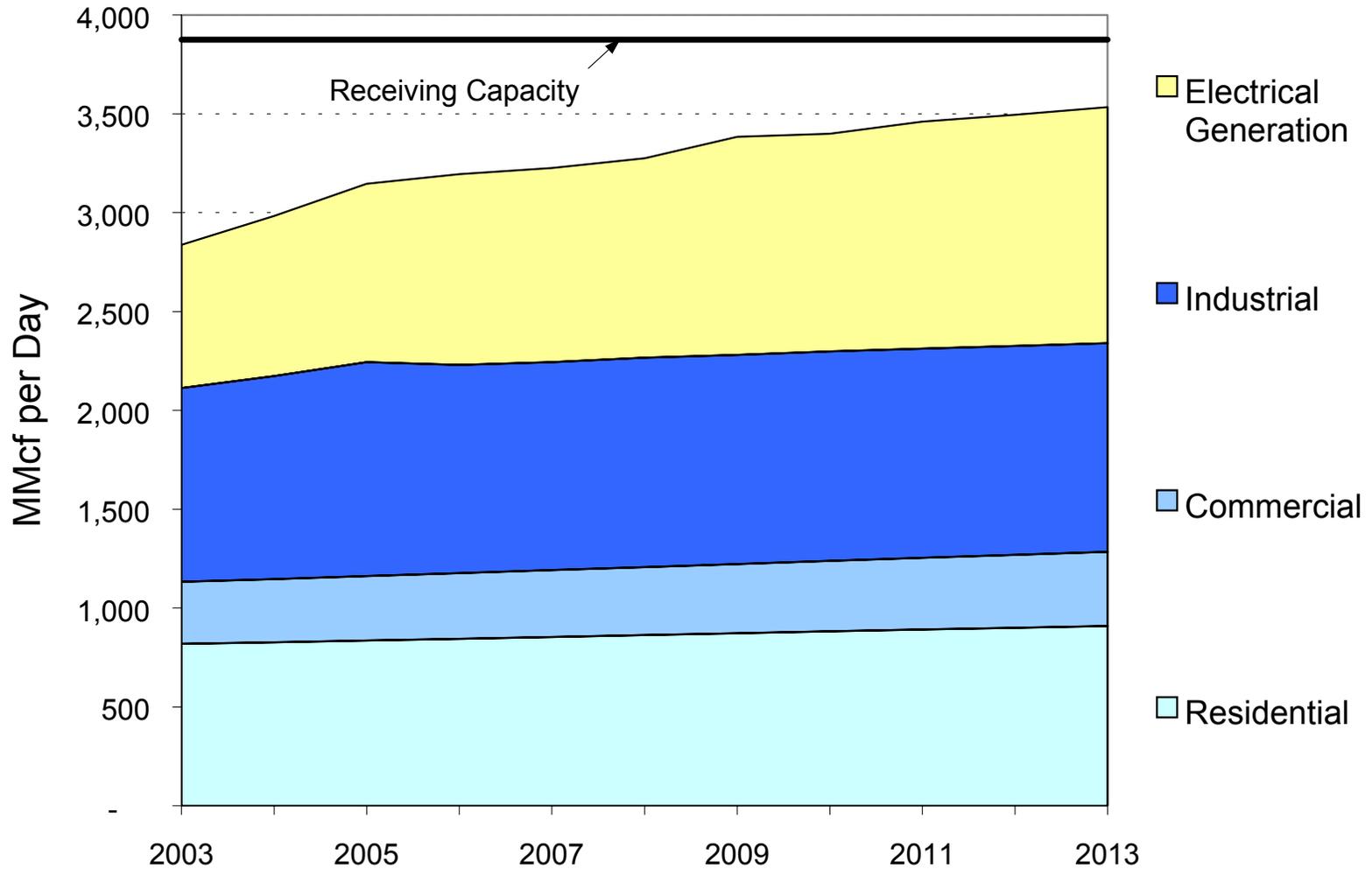
California's Intrastate Pipeline Infrastructure: the SoCalGas System



Project	Capacity Added (MMcf/d)	Completion Date
Wheeler Ridge Expansion	85	December 2001
North Needles	50	February 2002
Kramer Junction Interconnect	200	April 2002
Line 85 Expansion (Sylmar Compressor Station)	40	July 2002
Line 6900 Expansion (to SDG&E)	70	June 2001

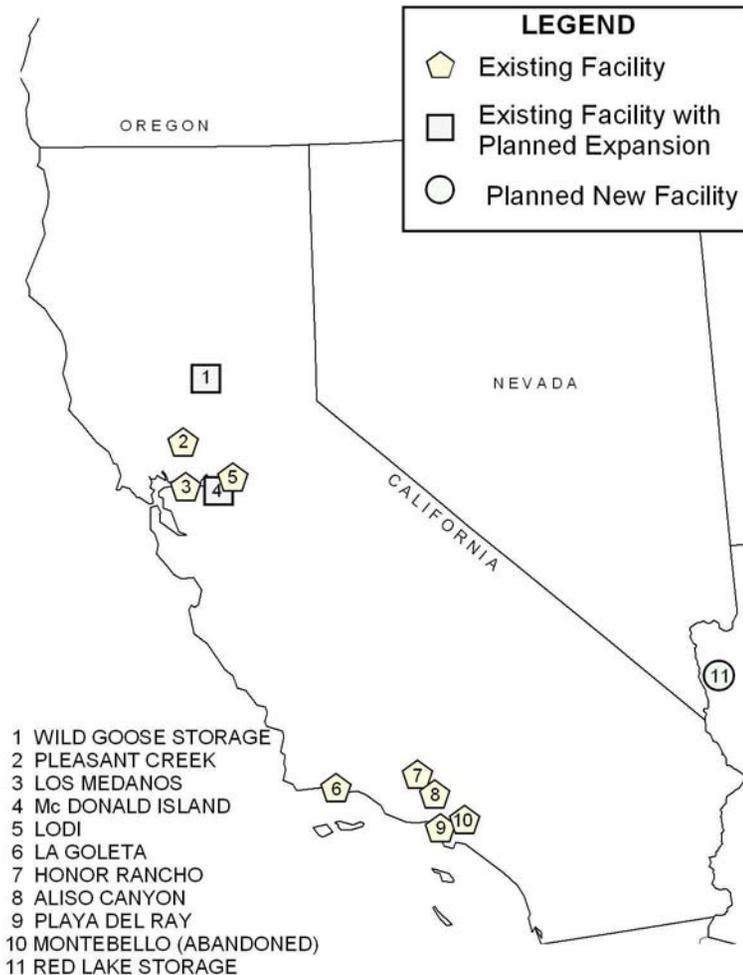


SoCalGas Company Receiving Capacity





Natural Gas Storage Facilities



Facility	Capacity Added (Bcf)	Completion Date
SoCalGas - Aliso Canyon & La Goleta	14	August 2001
Western Hub - Lodi Gas Storage Facility	12	December 2001
PG&E - McDonald Island	6.5	April 2004
EnCana - Wild Goose Storage Facility	15	April 2004
Aquila - Red Lake Storage Facility	6	November 2003
Aquila - Red Lake Storage Facility	6	December 2004



LNG Import Facilities

