



The Imperial Irrigation District (IID),  
a community-owned utility, provides  
electric power and irrigation water  
to the lower southeastern portion  
of California's desert.

# IMPERIAL IRRIGATION DISTRICT

Presented by:

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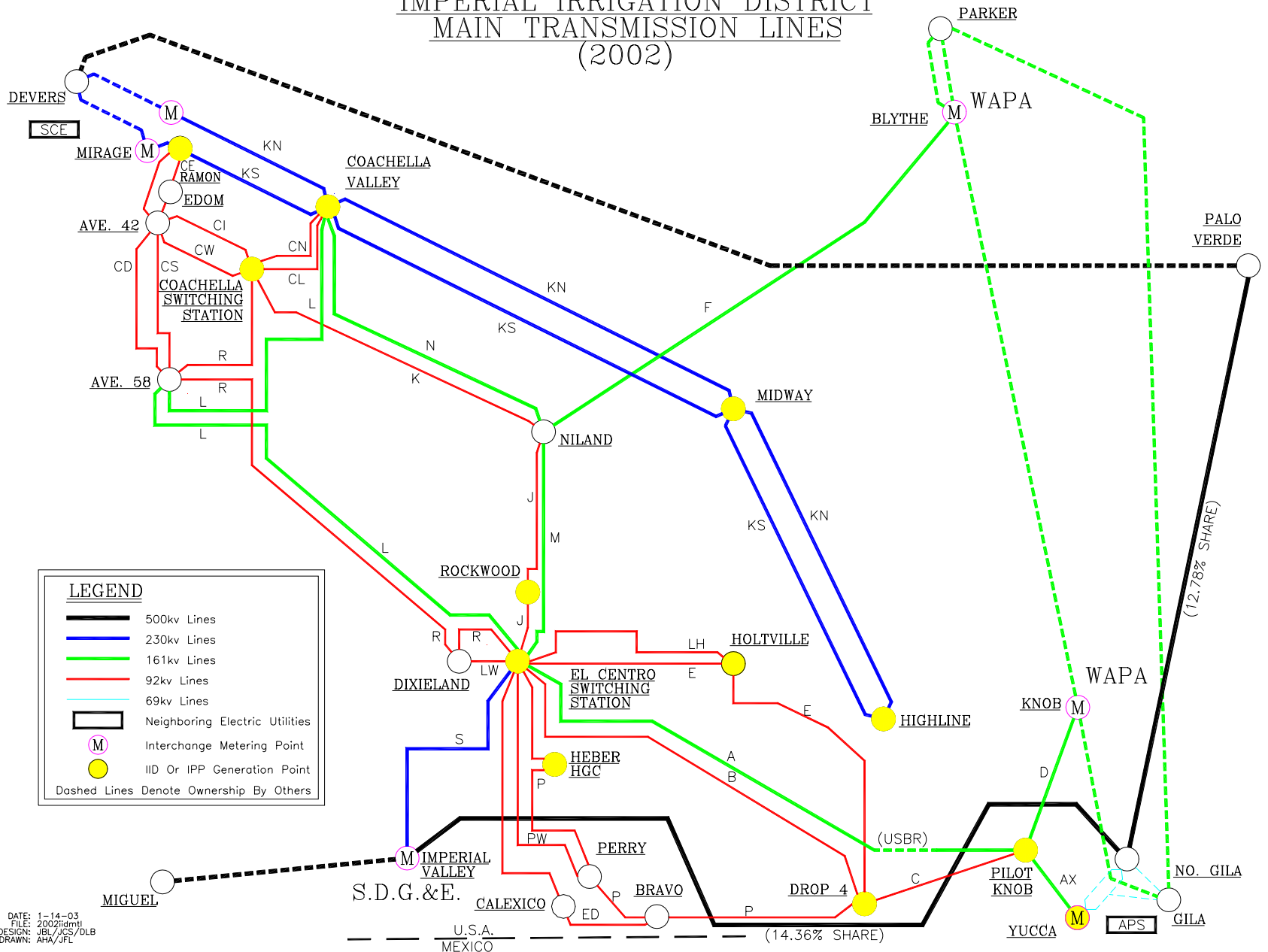
To:

California – Arizona Regional Transmission Study

January 17, 2003



# IMPERIAL IRRIGATION DISTRICT MAIN TRANSMISSION LINES (2002)



**LEGEND**

- 500kv Lines
- 230kv Lines
- 161kv Lines
- 92kv Lines
- 69kv Lines
- Neighboring Electric Utilities
- M Interchange Metering Point
- IID Or IPP Generation Point
- Dashed Lines Denote Ownership By Others

DATE: 1-14-03  
 FILE: 2002idm1  
 DESIGN: JBL/JCS/DLB  
 DRAWN: AHA/JFL

U.S.A.  
 MEXICO  
 (14.36% SHARE)

(12.78% SHARE)

# IID – WECC Control Area

- 2002 Peak Demand = 740MW
- 2002 Resources = 835MW
- IPP Geothermal = 600MW
- Typically, a Net Exporter due to geothermal generation
- Interconnections:
  - APS, WALC, SCE, SDG&E

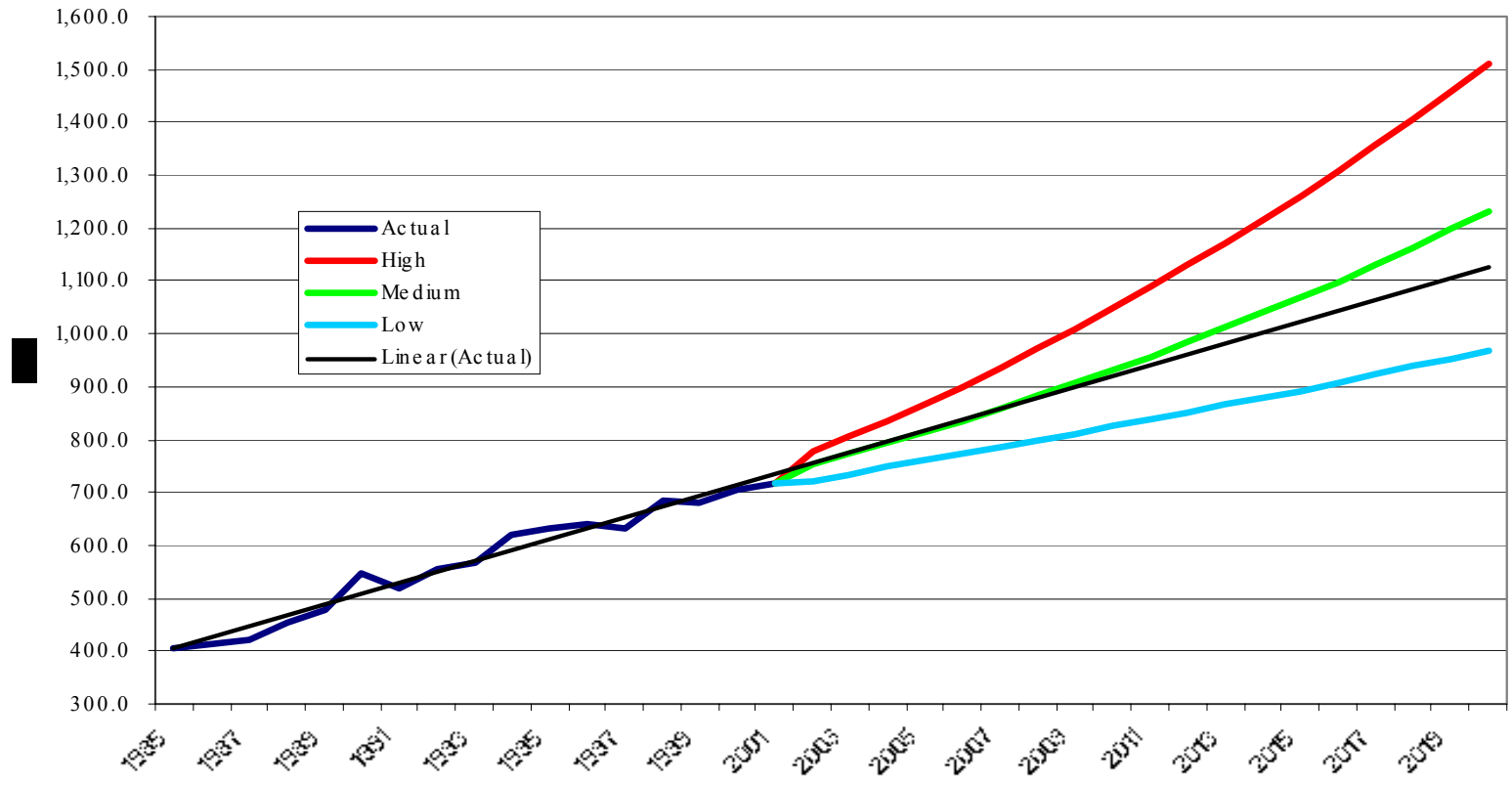
# IID Customers

- IID Total 105,000
  - Residential 83%
  - Commercial 11%
  - Agriculture 2%
  - Other 4%

# IID Transmission System

- Total Miles of Transmission System
  - 500kV            195.1    miles
  - 230kV            231.6    miles
  - 161kV            283.2    miles
  - 92kV             638.3    miles
  - 34.5kV           324.0    miles
  - 1,672.2 miles

### Imperial Irrigation District Summary of Historical and Forecasted Peak Demand (MW)



1/22/2003

# Transmission Projects Planned

- 2003 RAS Implementation to protect from overloading the El Centro 230/161 kV transformer (triggered by IV-NG Outage)
- 2005 Additional 35 miles of new 161kV lines for SSU6 + One Switching Station
- 2005 Two New 161/92kV transformers at Niland and Ave 58 substations

# Projects Under Review

- Replacement for Blythe-Niland line (2011) and related Blythe area initiatives
- Ten Year Plan for Coachella Valley area
- Ten Year Plan for El Centro area and related IV area initiatives
- Potential Geothermal Facilities