

IID's Transmission Expansion Plan

Presentation to:

Westconnect

October 31, 2007

David L Barajas, PE

Imperial Irrigation District

Imperial Irrigation District

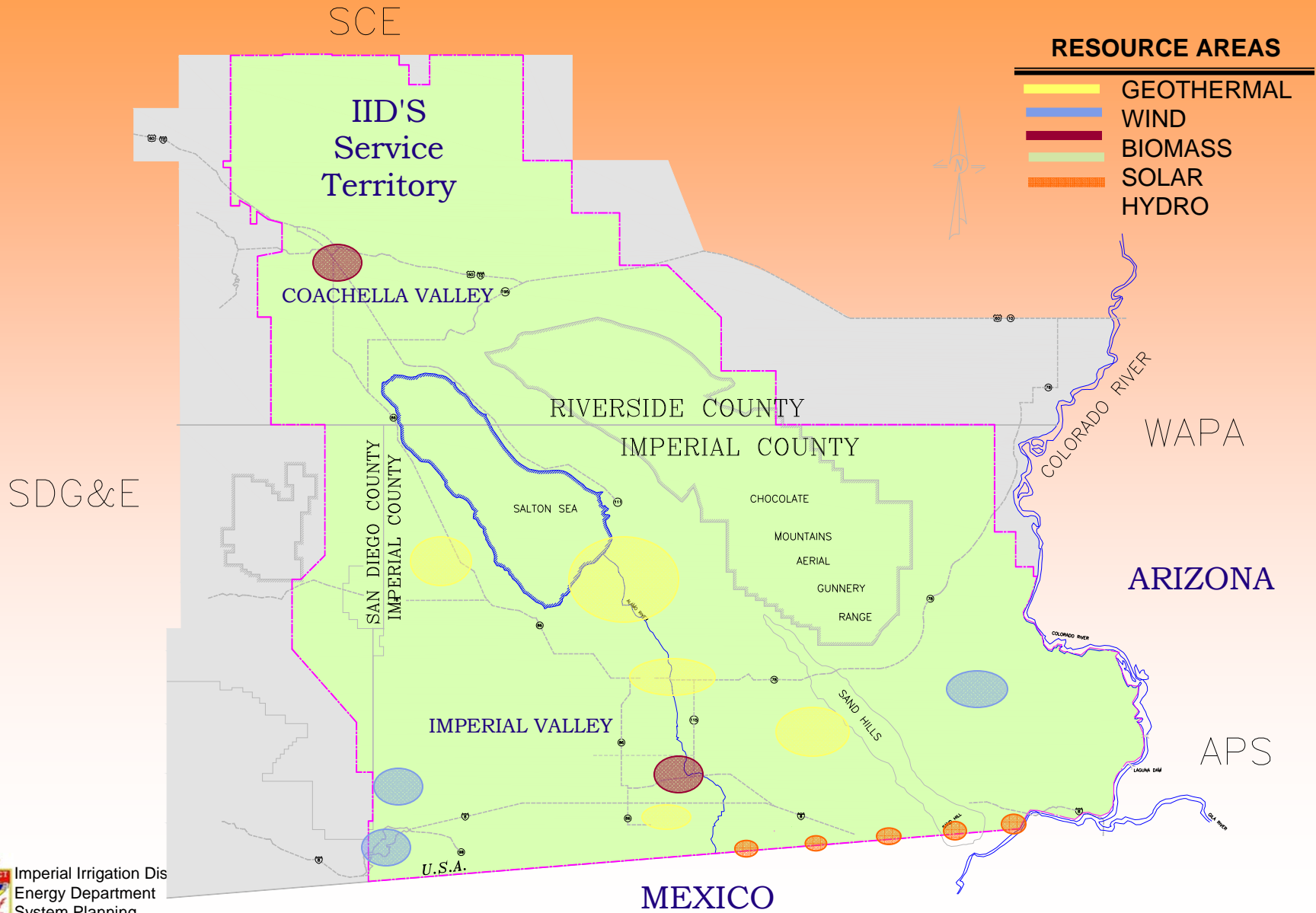
- Public owned utility
- Service territory covers 6,471 square miles, from the Mexican border to Riverside county
- Interties with SDG&E, SCE, WAPA and APS
- Sixth largest electrical utility in California
- Over 130,000 customers.
- Balancing Authority

IMPERIAL IRRIGATION DISTRICT

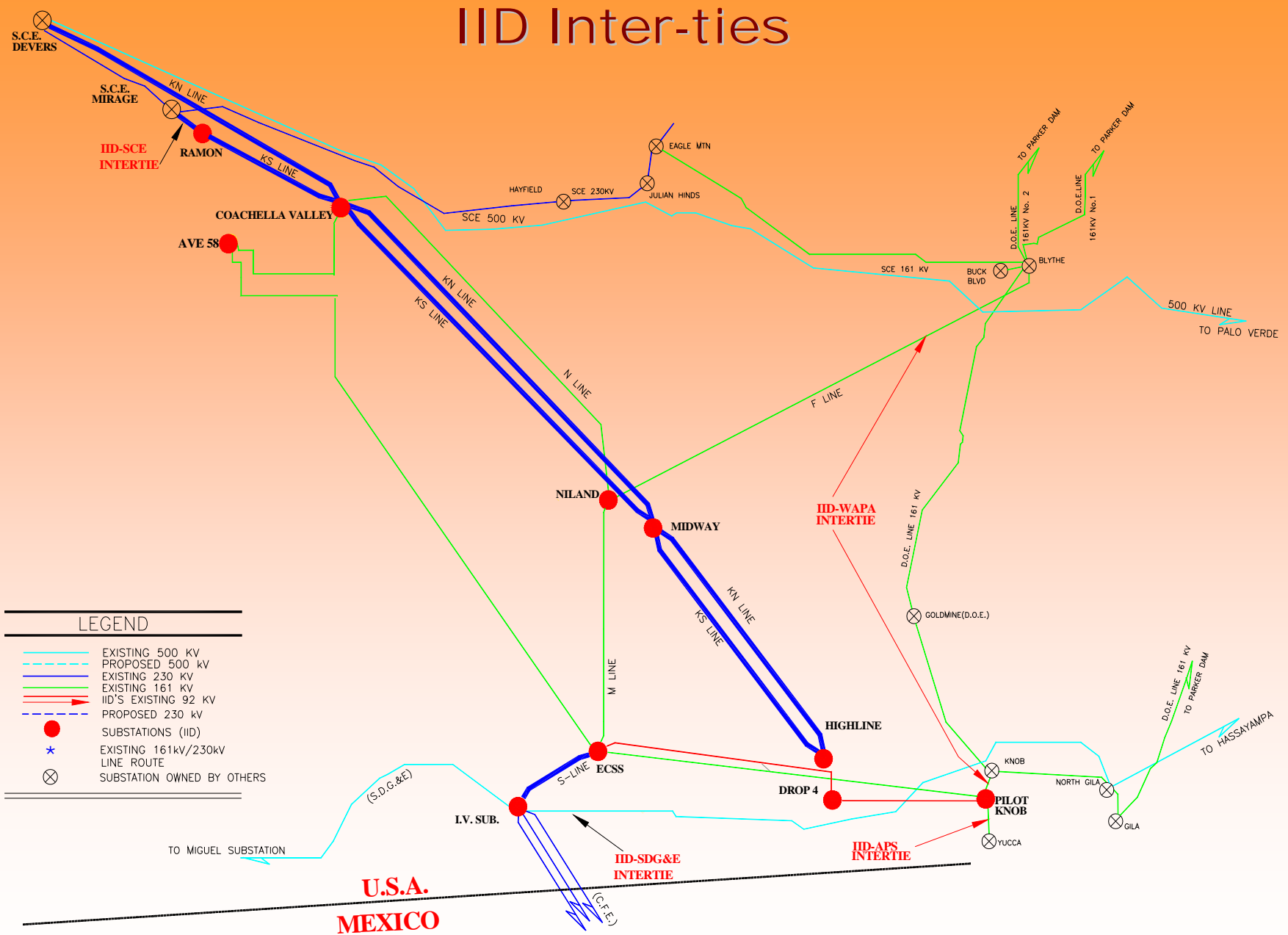
*Headquartered in
Imperial, CA.
Additional locations
in El Centro
and La Quinta, CA.*



IID's Service Territory



IID Inter-ties



LEGEND	
	EXISTING 500 KV
	PROPOSED 500 KV
	EXISTING 230 KV
	EXISTING 161 KV
	IID'S EXISTING 92 KV
	PROPOSED 230 KV
	SUBSTATIONS (IID)
	EXISTING 161KV/230KV LINE ROUTE
	SUBSTATION OWNED BY OTHERS

U.S.A.
MEXICO

IID Generation

IID Energy produces nearly 65% of its power supply locally, using efficient, low-cost:

- *Hydroelectric facilities, 84.66MW*
- *Steam generation facilities, 503.1MW*
- *Diesel Turbines,*
- *Natural Gas Turbines.*

Non owned generation, 613.5MW

Proposed Generation Projects in IID Service Area

IID's Generator Interconnection queue currently has 20 proposed projects for a total of 1324 MW;

- 350 MW Geothermal
- 350 MW Solar
- 100 MW Wind
- 31 MW Biomass
- 493 MW Fossil Fuel

Vast Renewable Resources in the Imperial Valley

- 2,000 MW geothermal energy potential; 555 Megawatts (MW) currently being exported
- Developing solar generation potential
- Developing wind generation potential
- Exploring ethanol generation potential
- Developing other Ag-based generation potential

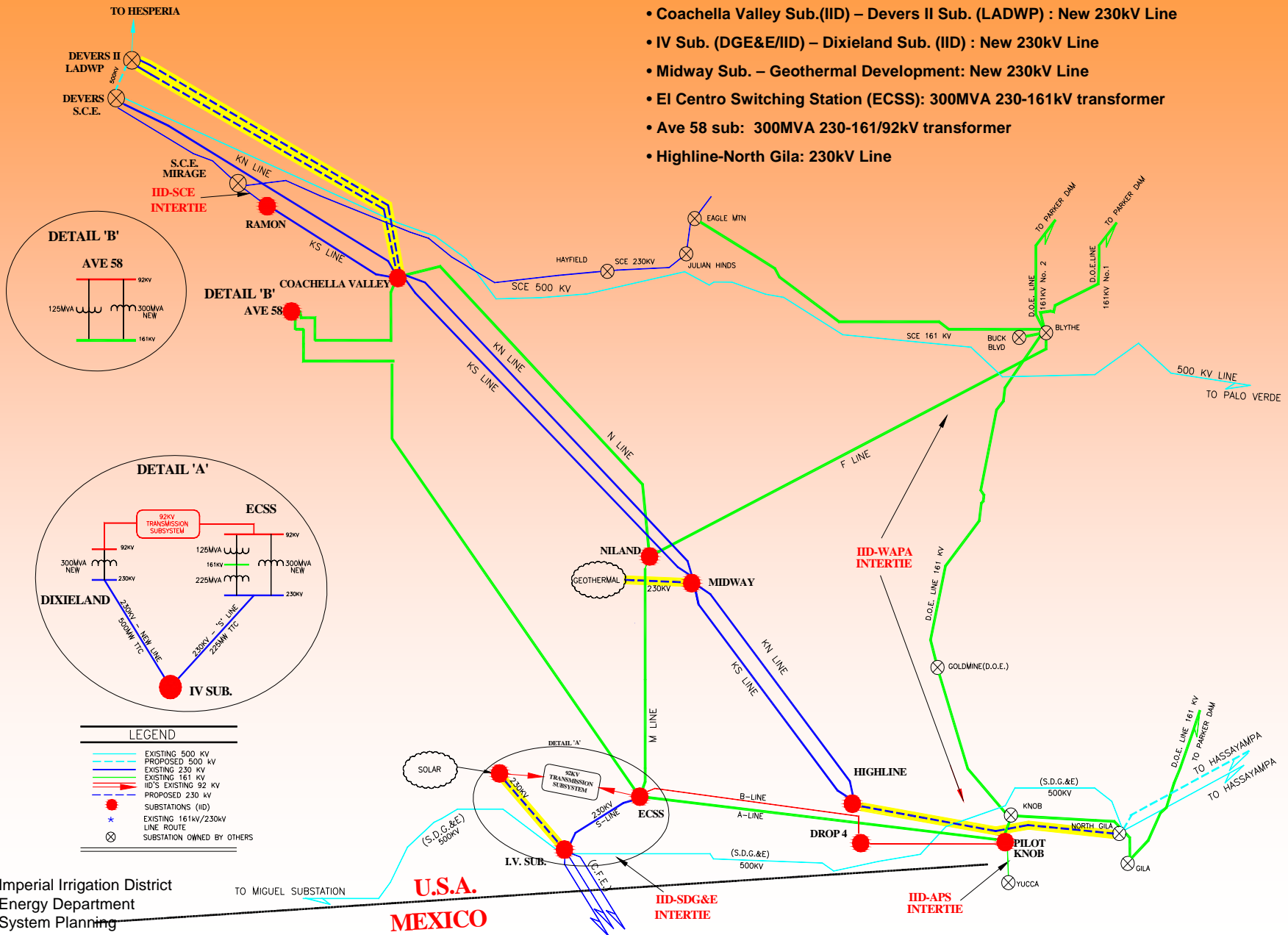
IID's 10 Year Transmission Expansion Plan

- El Centro Switching Station (ECSS);
300 MVA, 230/92kV transformer.
- IV Sub. (SDG&E/IID) – Dixieland Sub. (IID);
230kV transmission line & 300 MVA, 230/92kV transformer @
Dixieland Sub.
- Ave 58 Sub; 300 MVA, 230-161/92kV transformer.
- Midway Sub. – Geothermal Development area;
230kV transmission line.
- Coachella Valley Sub. (IID) – Devers II Sub. (LADWP);
230kV transmission line.
- North Gila- Highline, 230 kV transmission line.
- ECSS – Highline, 230kV transmission line.

IID's Transmission Expansion Plan

Projects:

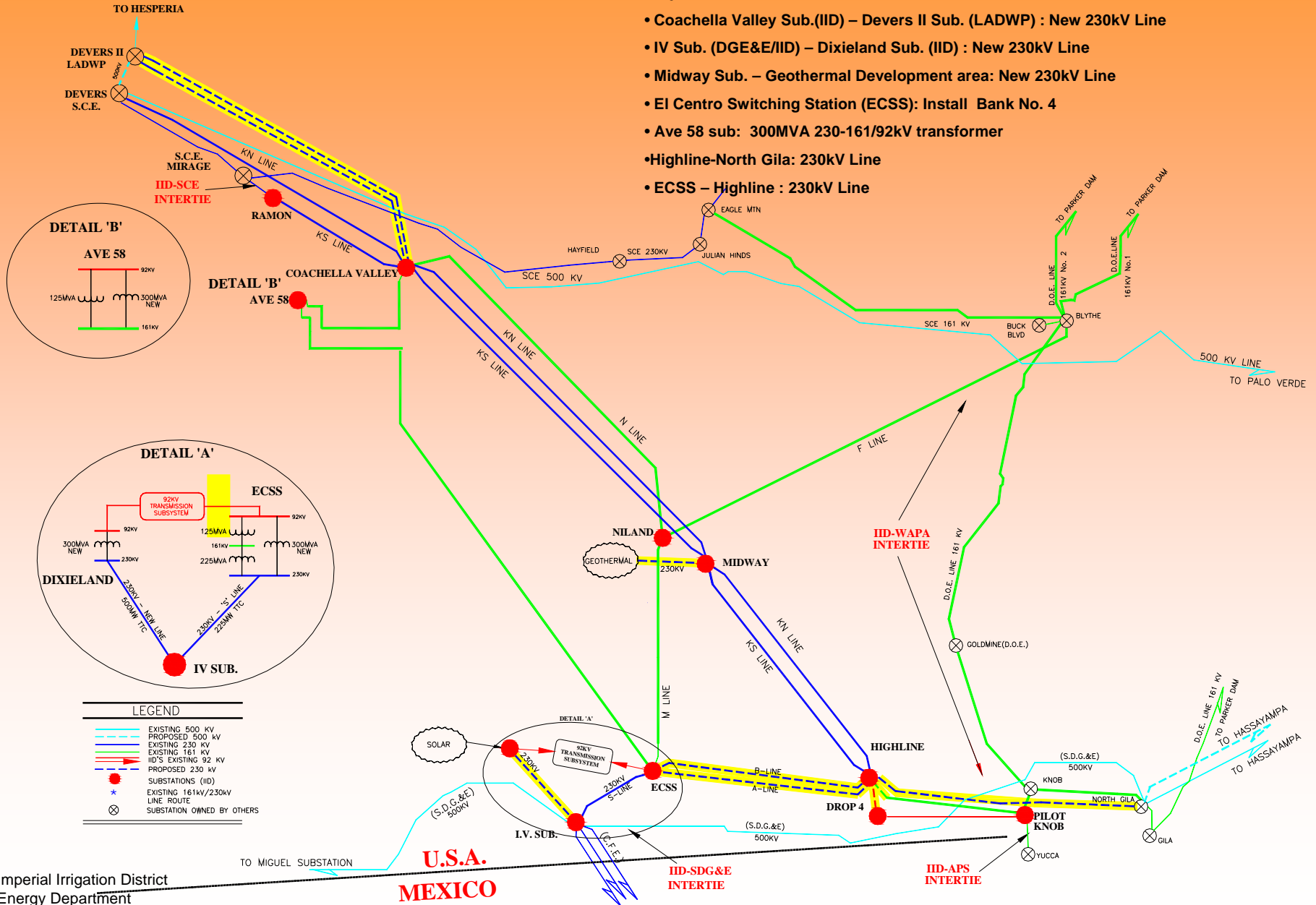
- Coachella Valley Sub.(IID) – Devers II Sub. (LADWP) : New 230kV Line
- IV Sub. (DGE&E/IID) – Dixieland Sub. (IID) : New 230kV Line
- Midway Sub. – Geothermal Development: New 230kV Line
- El Centro Switching Station (ECSS): 300MVA 230-161kV transformer
- Ave 58 sub: 300MVA 230-161/92kV transformer
- Highline-North Gila: 230kV Line



IID's Transmission Expansion Plan

Projects:

- Coachella Valley Sub.(IID) – Devers II Sub. (LADWP) : New 230kV Line
- IV Sub. (DGE&E/IID) – Dixieland Sub. (IID) : New 230kV Line
- Midway Sub. – Geothermal Development area: New 230kV Line
- El Centro Switching Station (ECSS): Install Bank No. 4
- Ave 58 sub: 300MVA 230-161/92kV transformer
- Highline-North Gila: 230kV Line
- ECSS – Highline : 230kV Line



GREEN PATH AND PV-YUMA LINE

