SDG&E: serving you today, planning for tomorrow

• Today: SDG&E is striving to provide safe, reliable energy and exceptional customer service.

• Tomorrow: Ensuring adequate energy infrastructure is one of SDG&E’s most important responsibilities.

• In fact, Sempra Energy’s utilities and subsidiaries have invested more than $6 billion in new power plants, electric-transmission lines and natural gas pipelines and other energy infrastructure to serve California.

• Cold Ironing will benefit all San Diegans with cleaner air: SDG&E is a committed partner.
Energy use up as San Diego evolves

Downtown San Diego transformed:

• 400 new / renovated buildings
• Increase in residential customer density
• Petco Park
• Major Hotels
• San Diego Convention Center Expansion
• Gaslamp Quarter
Cold Ironing projected load

- Floating residential customer equivalence
  - 1,000 residential customers per 1MW = 24,000 new customers for cruise ship terminal at 24MW

- Very high costs to change existing electric infrastructure
  - New load = new substation

- Difference in supply voltage levels – customer expense
  - 6.6kV is not a standard CPUC Rule 2 Supply voltage

- Regulatory approval process for new substation
Energy infrastructure needed to keep pace

- Operational / engineering challenges

- System Reliability
  - Transmission Infrastructure requires study - ongoing

- Electric substation infrastructure in the downtown area
  - Currently 320MW

- New power substation to support downtown load growth
  - Planning stages about three years in

- Growth plan / downtown needs study - ongoing
Electricity costs

- Tariffs – ALTOU Transmission Level Service
- Advantages of 69kV transmission service vs. 12kV distribution
- Cost associated with securing extra capacity for ships in port