

DOCKETED

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SB 100 WORKSHOP — CENTRAL VALLEY



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AGENDA

- ❑ **Background**
- ❑ **Generation Portfolio**
- ❑ **RPS Compliance**
- ❑ **Our Customers**
- ❑ **SB100 Challenges**
 - Reliability
 - Affordability
 - Regulatory Uncertainty
- ❑ **Summary**



BACKGROUND



- ❑ Located 90 miles south of Sacramento
- ❑ Established in 1887
- ❑ First Irrigation District in CA
- ❑ Started providing electricity in 1923



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BACKGROUND



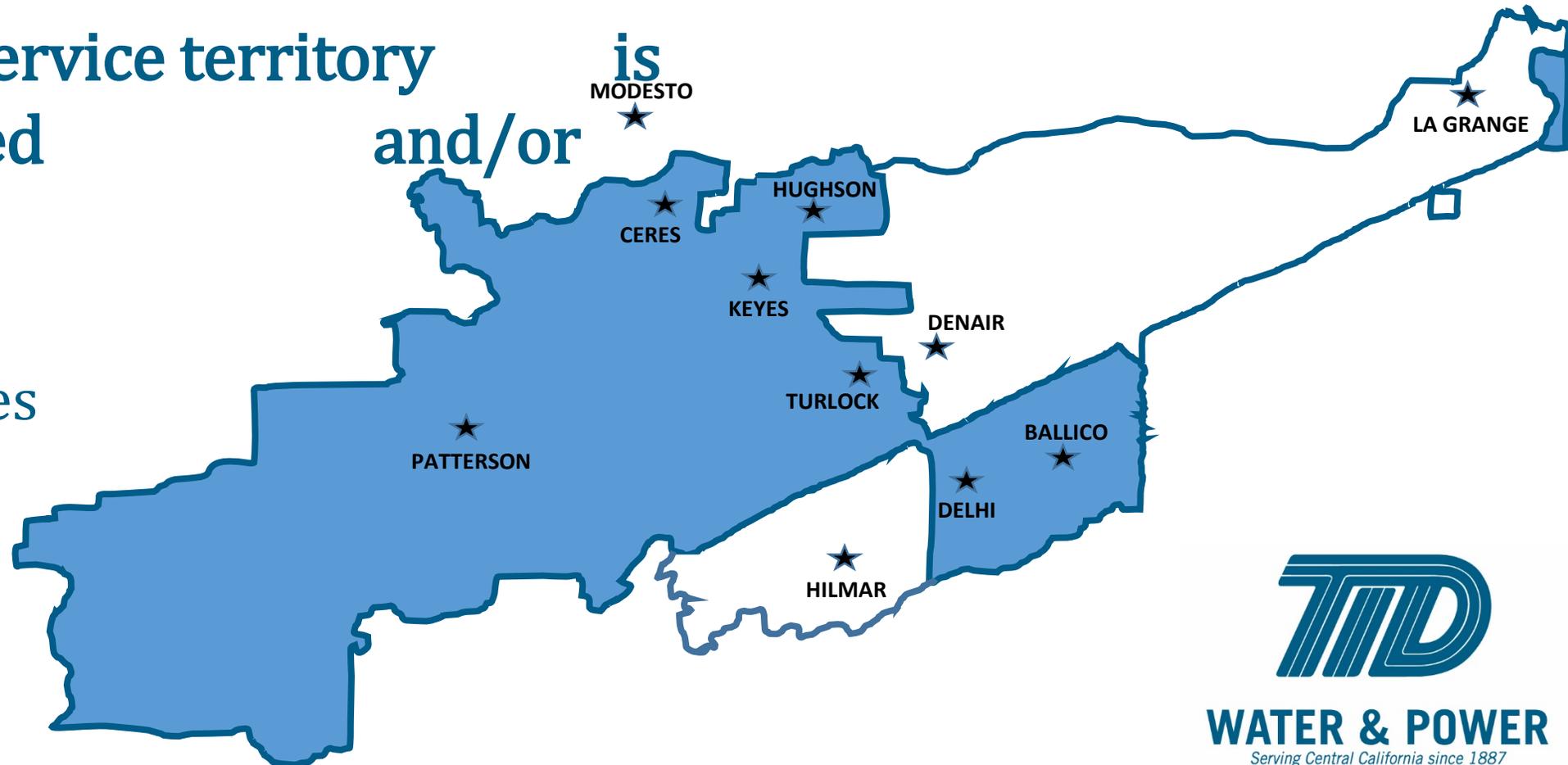
- ❑ 662 square mile service territory
- ❑ 1 of 4 Irrigation Districts to provide retail electric service
- ❑ Formed our own Balancing Authority in 2005



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OUR CUSTOMERS

- TID provides electricity to approx. 100,000 accounts
- Majority of service territory is disadvantaged and/or low income
 - 7 out of 11 communities



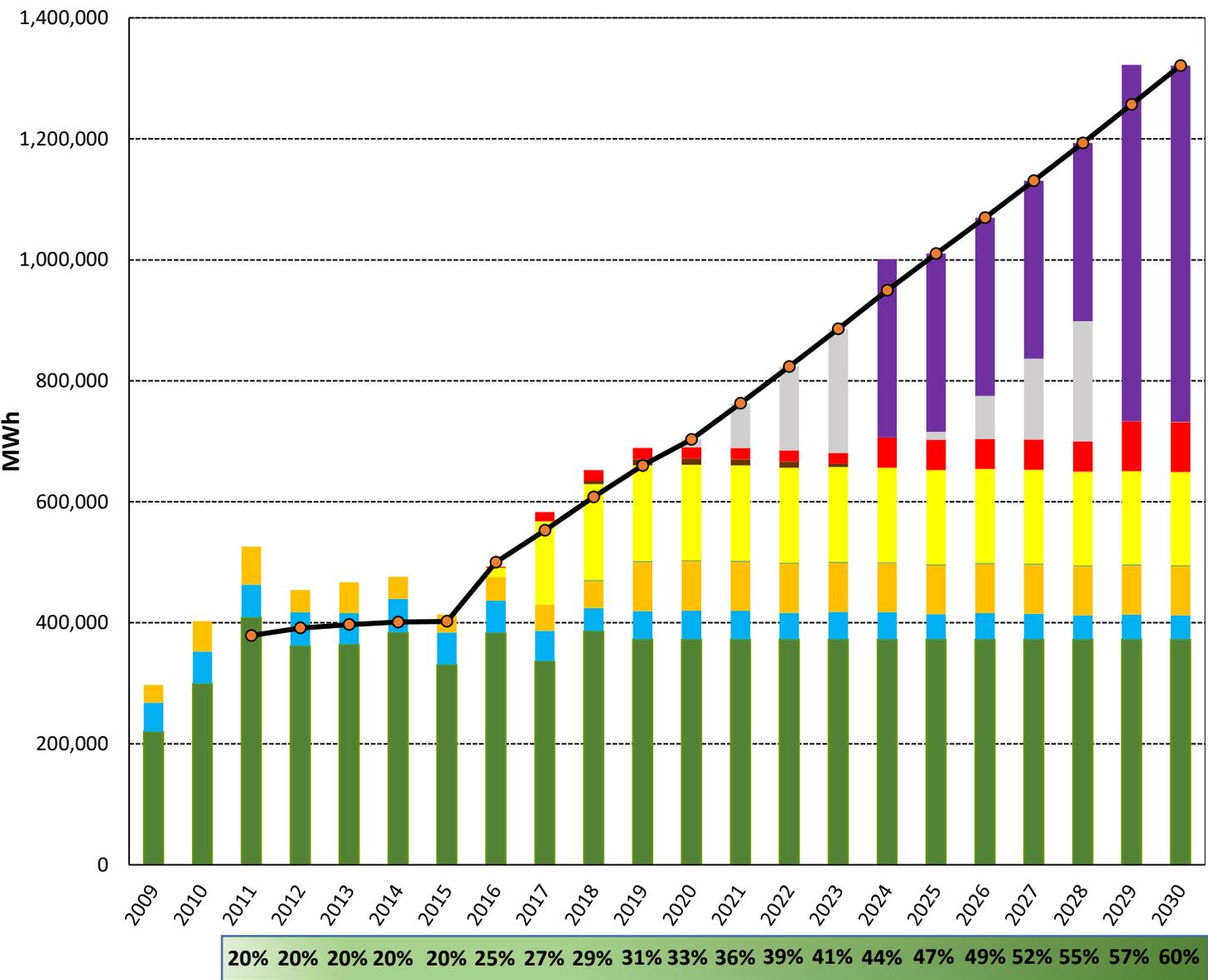
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GENERATION PORTFOLIO

- Diverse portfolio of generation
 - wind, solar, biomass, geothermal, large hydro, small hydro, and natural gas



RPS COMPLIANCE



- Wind
- Geothermal
- Small Hydro
- Other
- Solar
- Biomass
- Unblundered RECs
- Banked Surplus
- Future Procurement
- SB100 RPS Requirement - Base Load

- **Early Action**
 - Small Hydro in 1979
 - Geothermal in 1986
 - TWP in 2009
- **Future Renewable Procurement**
 - 100MW in 2024
 - 100MW in 2029



SB 100 CHALLENGES – RELIABILITY



- ❑ **Balancing Authority Obligation**
 - ❑ Match Generation to Load
 - ❑ Invested in Generation Assets
- ❑ **Increasing Load Variability**
 - ❑ Behind the Meter Solar & Additional Renewables
 - ❑ Requires Flexible Generation



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SB 100 CHALLENGES – AFFORDABILITY

- ❑ **Long Term Debt on generation assets**
 - Stranded Assets ultimately will have significant rate impacts
 - Analyzing alternative fuel options
- ❑ **Transition to Battery Storage**
 - Cost declining, but still very costly at utility scale



SB 100 CHALLENGES – UNCERTAINTY



- **Definition of Carbon Free**
 - 20%-25% of our annual generation is Large Hydro
- **Procurement Rules**
 - Minimum contract length vs ownership
- **2030-2045 Milestones**
 - Path from 60% RPS to 100% Carbon Free



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SUMMARY

- ❑ TID has been an early actor in renewable and carbon free energy
- ❑ TID has unique challenges as a small balancing authority serving a highly disadvantaged community
- ❑ TID is supportive of California's emission reduction goals and embraces being able to collaboratively develop mutually beneficial solutions

