



Serving our customers

Energy Imbalance Market (EIM)

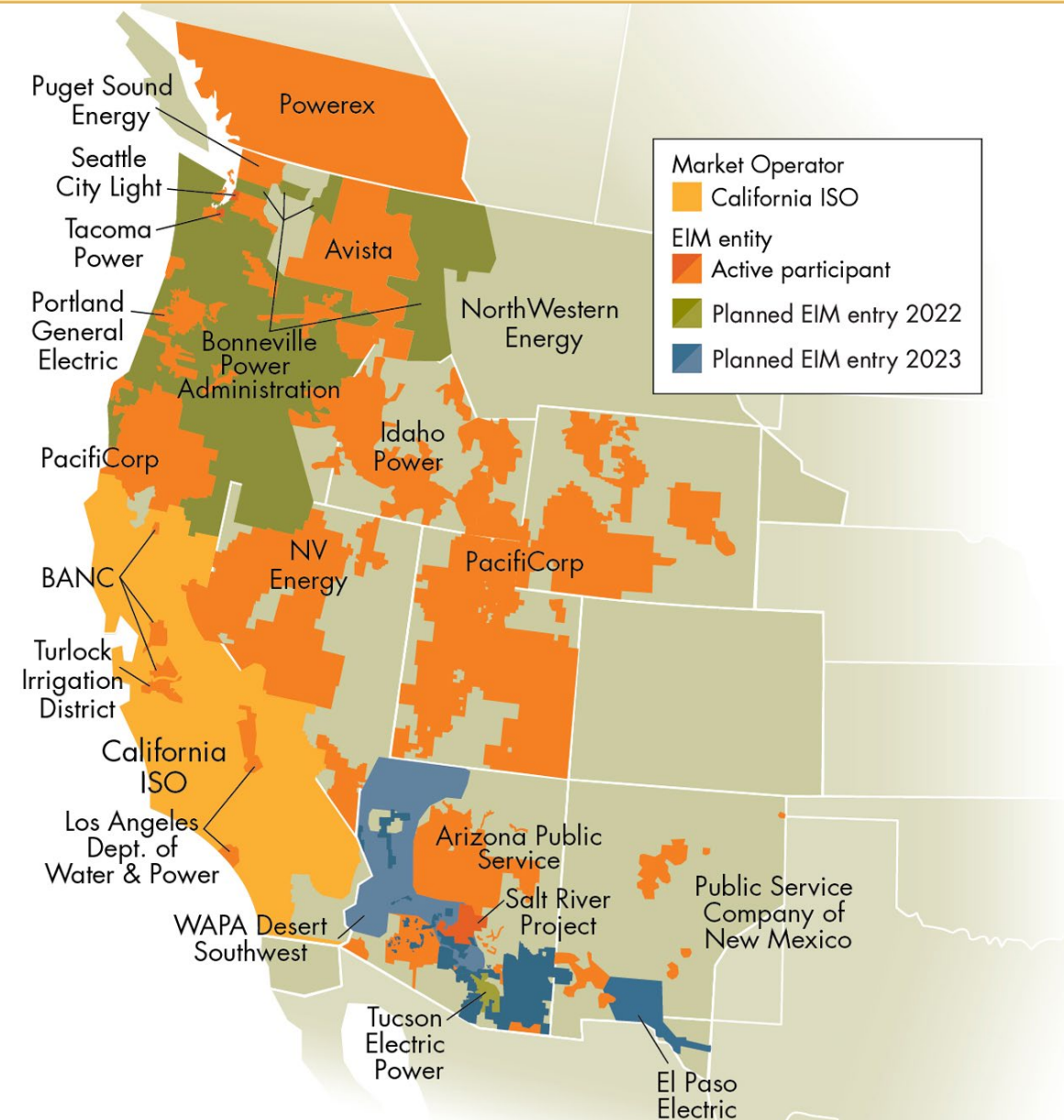
Public Utilities Board Update



What is EIM?

EIM is a **real-time energy supply market** that:

- Offers electricity generation and transmission services.
- Automatically balances demand **every 15 minutes**.
- Dispatches power plants to meet demand **every five minutes** with the **lowest cost energy**.



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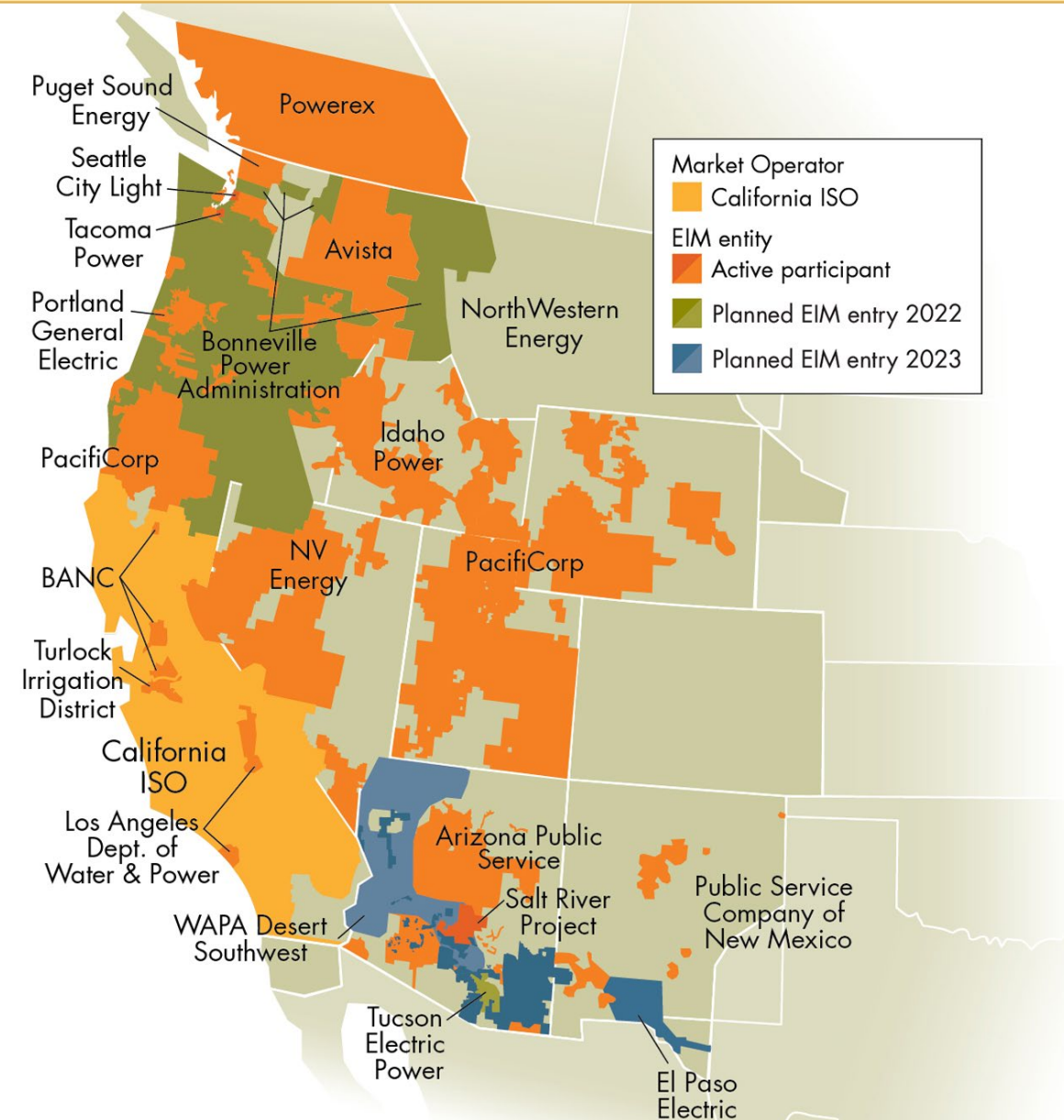
Why did we join EIM?

*Traditional bi-lateral partners joining the EIM created **risk** if we did not join.*

*EIM offers an attractive **market** for our **valuable, quick-ramping hydro resources**.*

*Hydro units support renewable resource **integration**.*

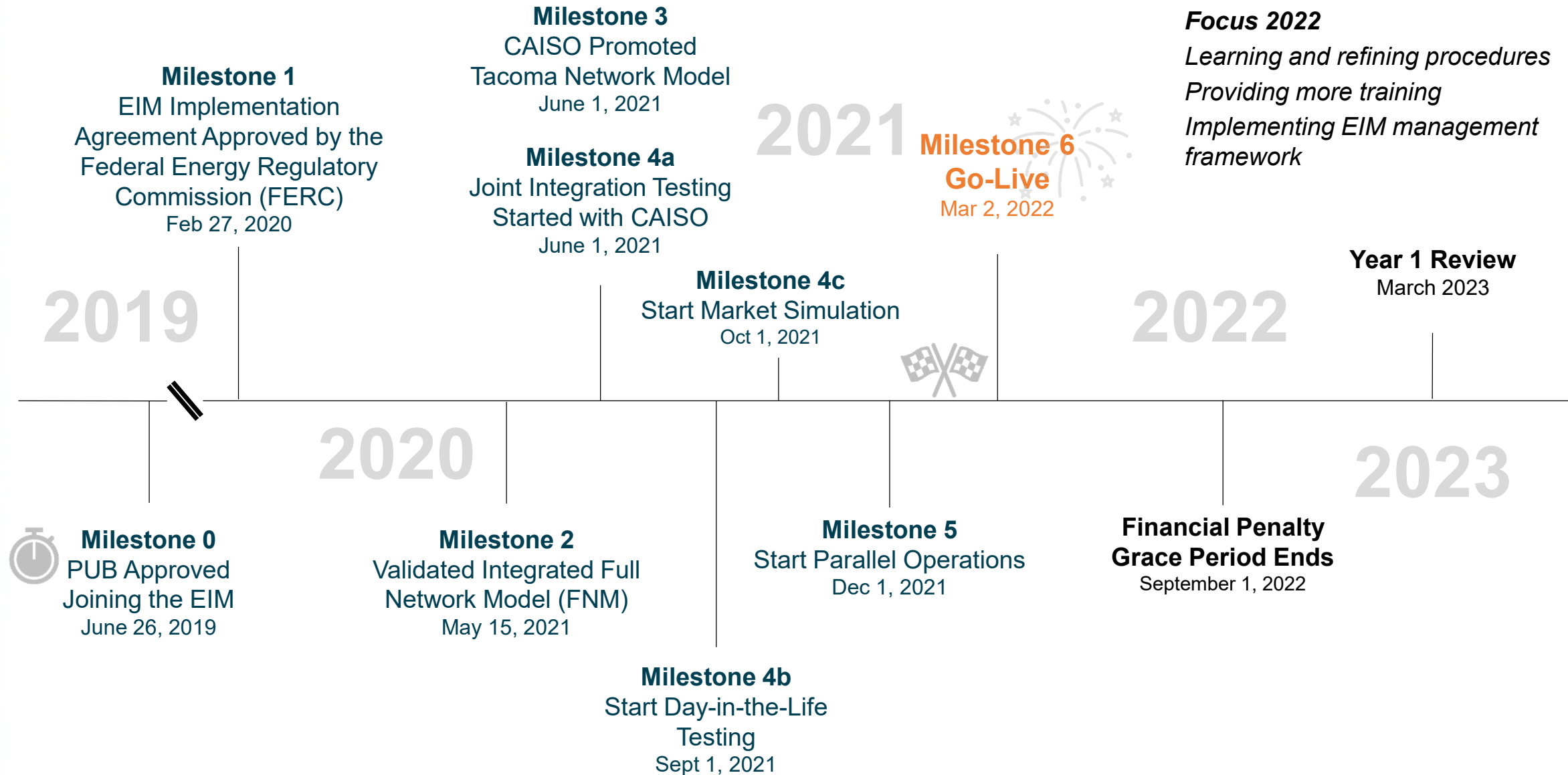
*Gives us a “**seat the table**” of Western energy **market development**.*



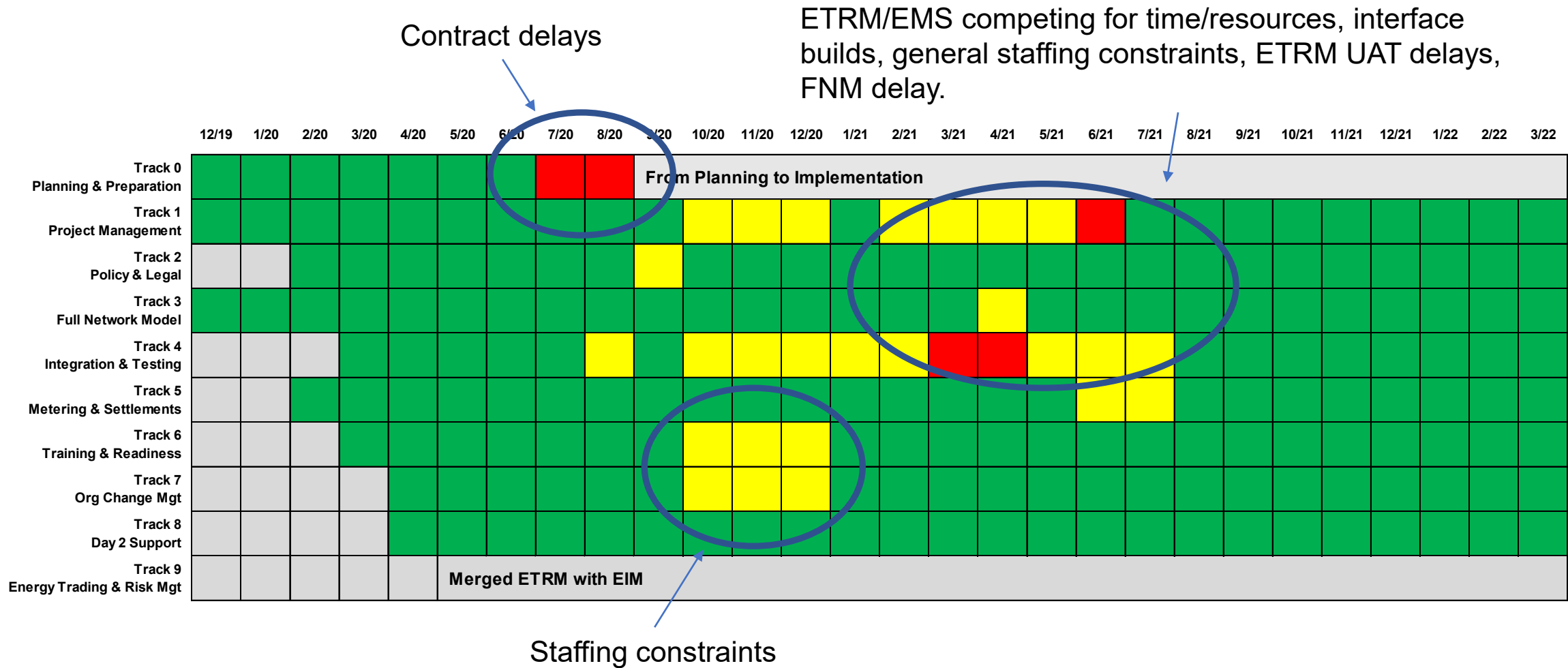
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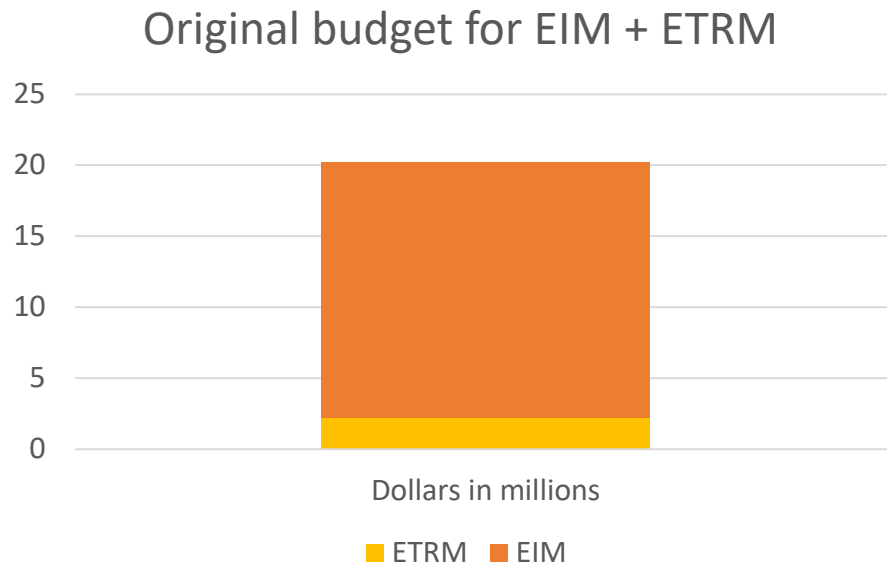
CAISO EIM Milestones



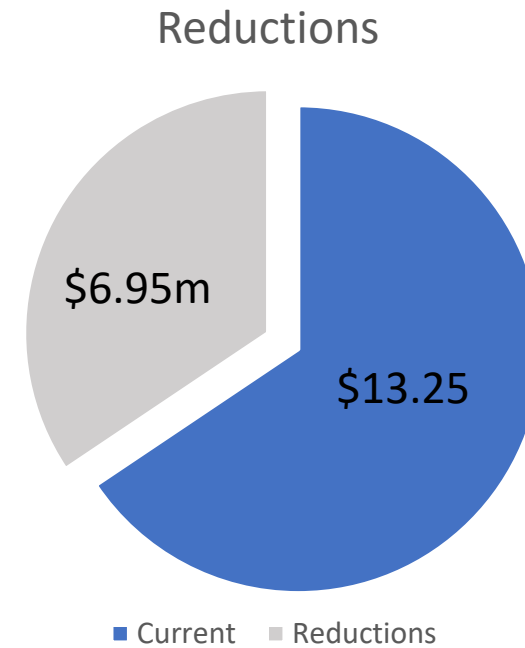
Project In-Review



Project Finances



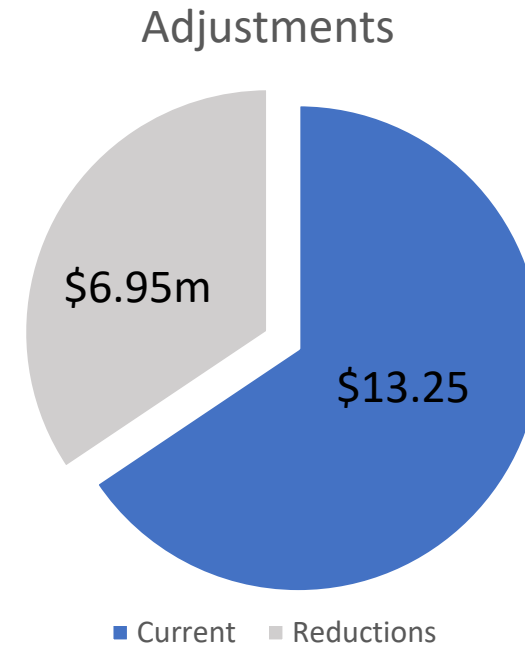
**Total Budgeted
\$20.2 Million**



**Total Adjusted Budget
\$13.25 Million**

HOW?

- Leveraged **synergies between EIM/ETRM**
- **Negotiated** down contracts
- Shifted some contract work to internal
- **Fewer meter replacements** needed
- Shifted FTE hiring strategy



Total Adjusted Budget
\$13.25 Million

Questions?

