

DOCKETED

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New Business Services

CEC Commissioner Workshop on Clean Energy
Interconnection – Electric Distribution Grid



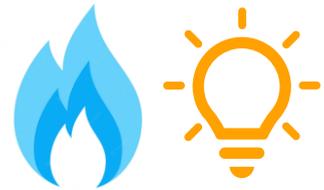
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New Business Process Current State

125,000 New Business Customer Applications/Year



43%

54,000 applications

54%

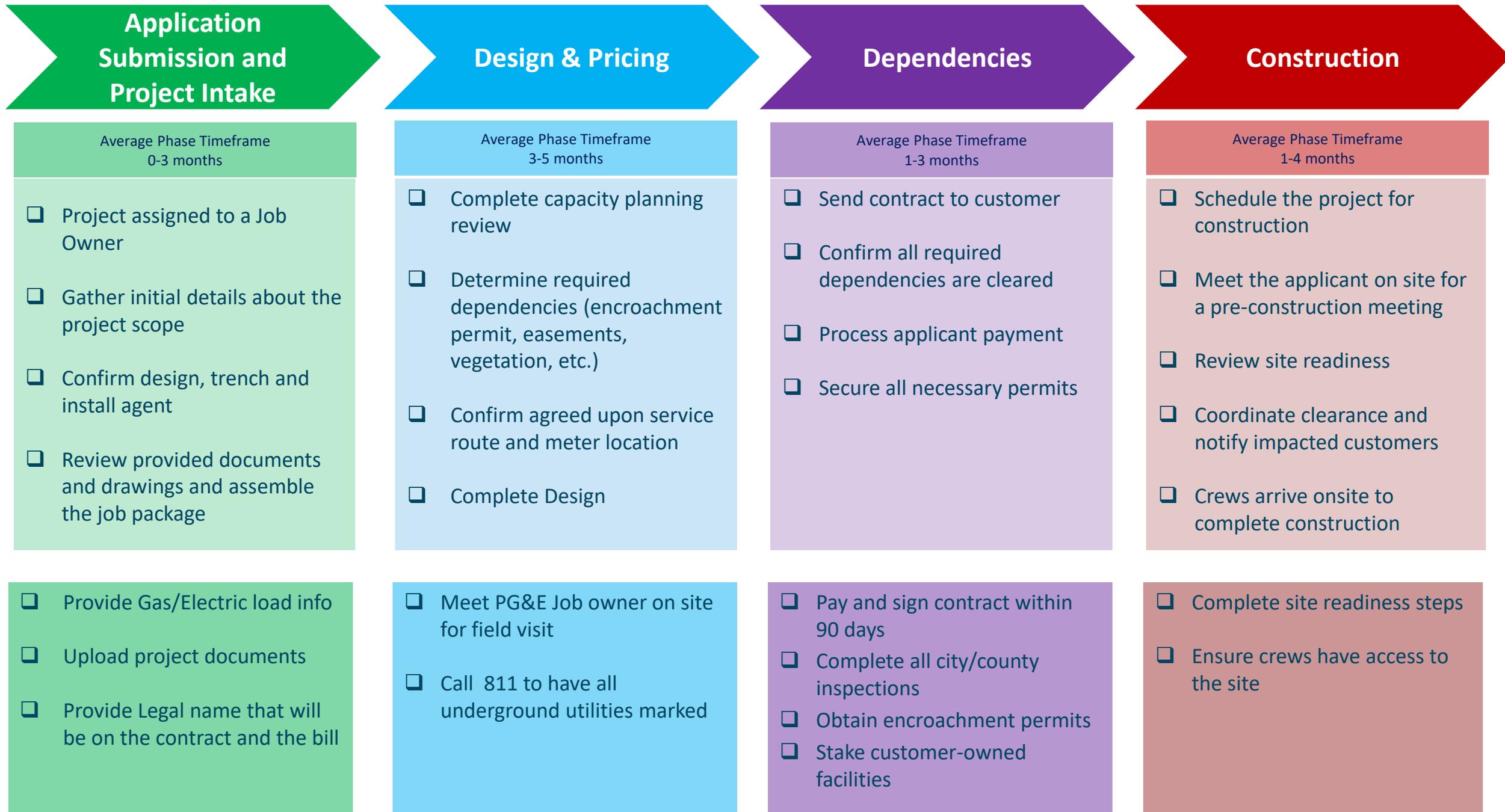
67,000 applications

	Express Connections	Traditional
Work Types	<p>Simple</p> <p>Electric: Residential disconnect/reconnect (panel upgrades, EV meters and solar interconnection), temporary power, streetlights</p> <p>Gas: Meter upgrades & cut-offs</p>	<p>Complex</p> <p>Requires Design - gas/electric</p> <p>More extensive: Permits, Land Rights and Inspections</p> <p>Projects span months/years driven by both Customer and PG&E</p>
Design	n/a	8,000 projects
2022 Completed Construction	<p>Electric: 27,863 projects</p> <p>Gas: 1,238 projects</p>	10,000 projects
Cycle Time Avg	<30 days	330 days

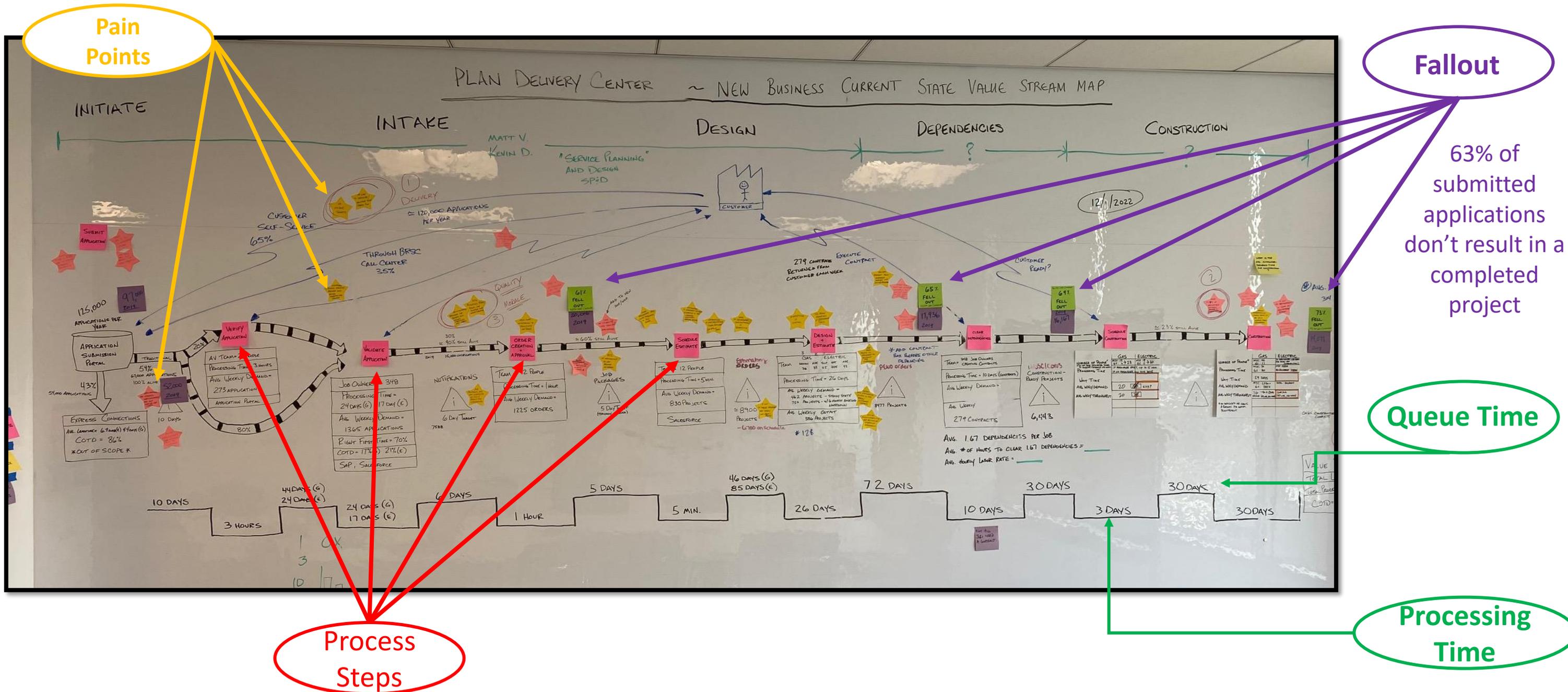


New Service Connection Process

Expecting typical timelines to reduce by almost half this year



What Are We Doing To Improve?



Upcoming Collaboration Sessions



Thank You



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Electric Grid Interconnection (EGI)

CEC Commissioner Workshop on Clean Energy
Interconnection – Electric Distribution Grid

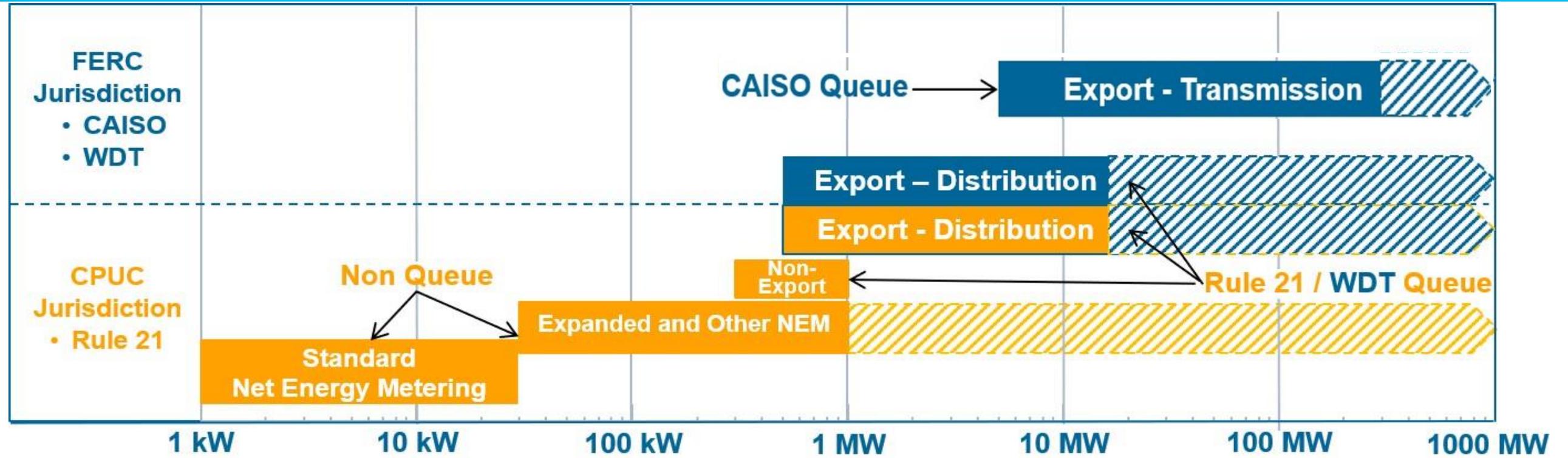


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EGI Interconnection Process High-Level Overview



EGI interconnects a wide range of system sizes and technologies, with project installations ranging from residential net energy metering to utility-scale generation facilities.



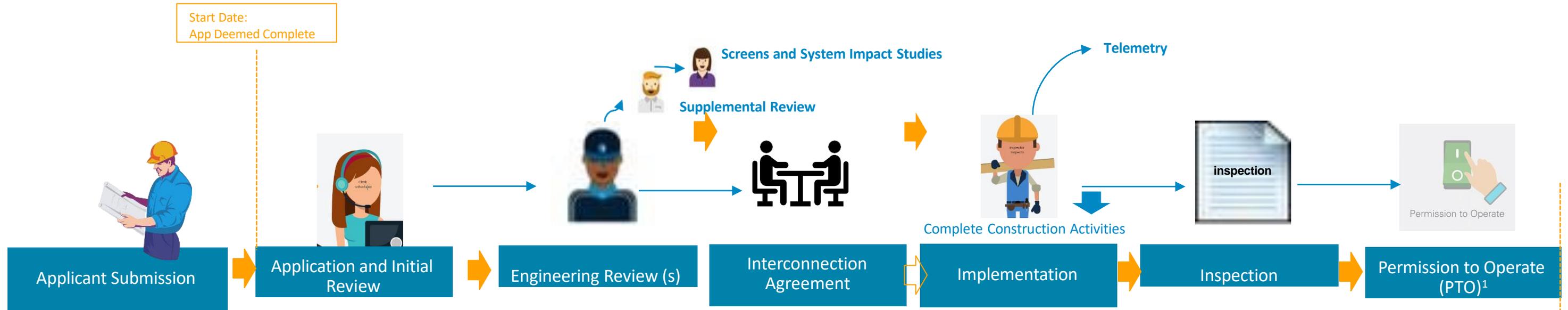
	SNEM	R21	WDT	Transmission
Range of Project Size	<= 30 kW	> 30 kW	12 kW to 120 MW	5 MW to 500+ MW

Legend

CAISO	California Independent System Operator
CPUC	California Public Utilities Commission
FERC	Federal Energy Regulatory Commission
kW	kilowatt
MW	Megawatt
NEM	Net Energy Metering
Queue	A list of unique project identifiers assigned by EGI to accepted generation interconnection applications to identify the order received and assign the order of study.
SNEM	Standard Net Energy Metering
WDT	Wholesale Distribution Tariff

Technologies include Solar, Wind, Fuel Cell, Hydroelectric, Biogas, etc.

Rule 21 Interconnection Process & Timelines Overview



Timeline	Tariff
Application Submitted to Utility Acknowledgement	10 BD
Application Submitted to Deemed Complete	10 BD
Material Modification Determination	10 BD

Timeline	Tariff
Deemed Complete to Initial Review Complete	15 BD
Supplemental Review start to finish	20 BD
Electrical Independence Test (EIT)	20 BD
Scoping meeting to Detailed Study (SIS) Agreement	15 BD
System Impact Study (SIS) start to finish	60 BD

Timeline	Tariff
Draft IA to Customer	15 BD

Timeline	Target
Design Complete	60 BD
Construction Complete	60 BD
Field Metering Design/Invoice	20 BD
Field Metering Install	20 BD

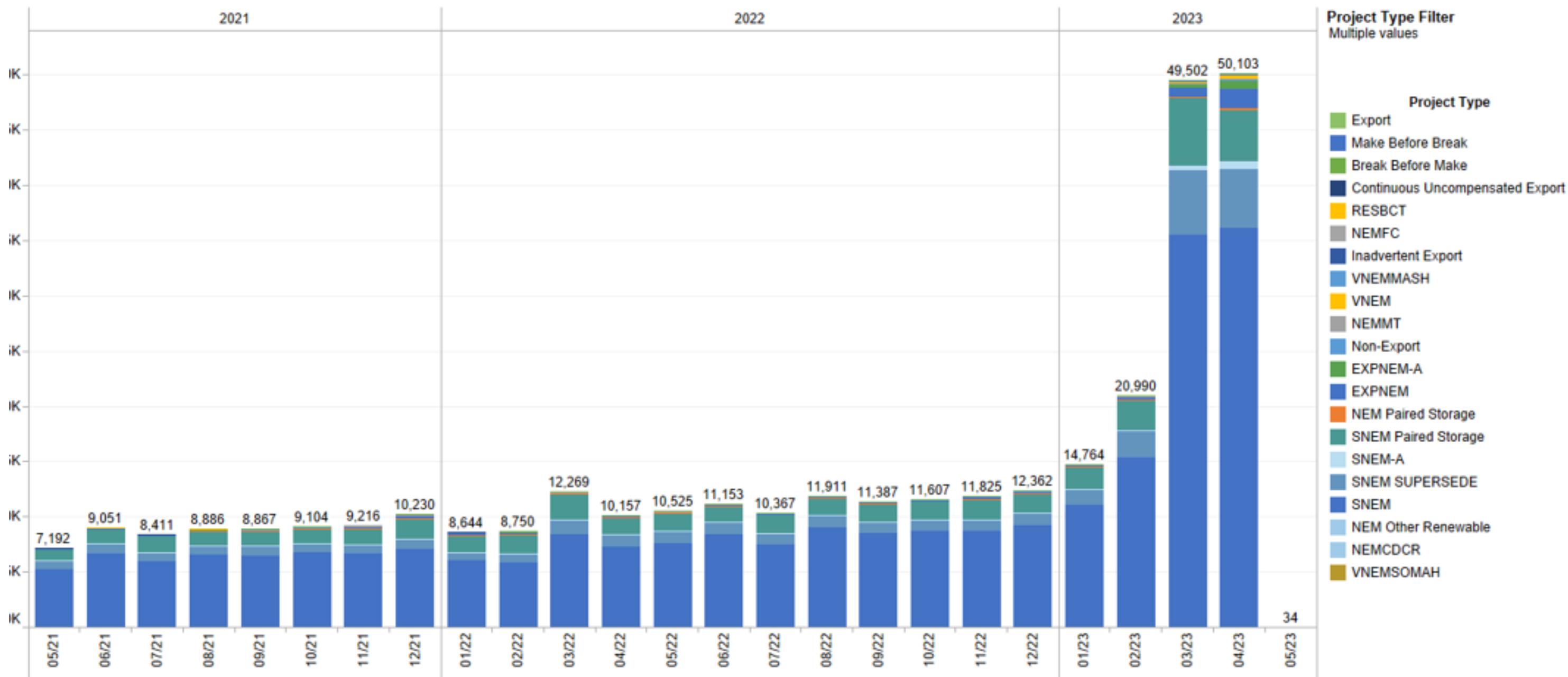
Timeline	Tariff
Customer Commissioning to Permission to Operate	5 BD

End Date: PTO Issued



PG&E's Portfolio: Application Volume

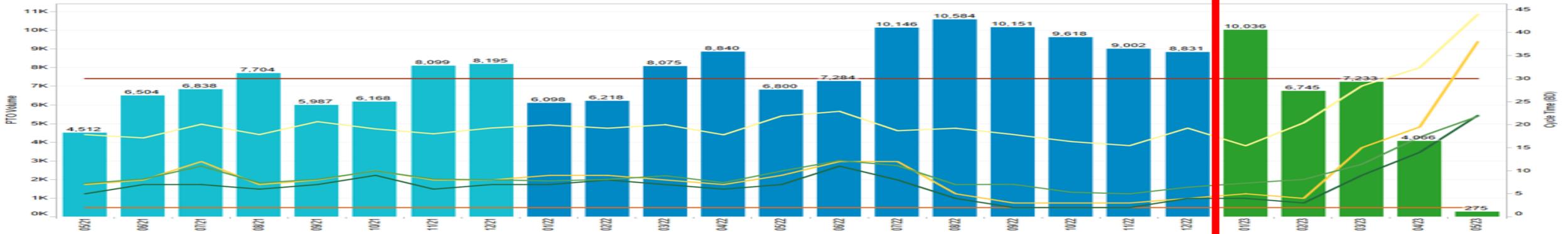
Rule 21 Applications Received



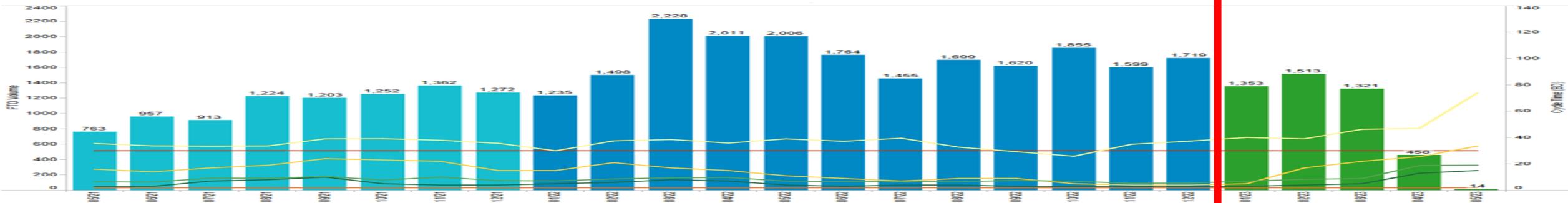


Interconnection Application Cycle Times

Standard NEM



Standard NEM with Paired Storage



Expanded NEM



Items denoted in red stem from the NEM2 to NBT transition (CPUC Decision 22-12-056)

* See Appendix for larger versions of the charts

Thank You



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Appendix

New Business Services



PG&E service planning and design: EV customer roadmap

CUSTOMER ELIGIBILITY

Did you know that PG&E has different EV Programs?

- EV Charging for Medium and Heavy Duty Fleets
- EV Fast Charge Program

Am I an EV site developer?

Am I developing sites across multiple locations?

APPLICATION READINESS

Do I have a specific location identified?

Do I have the information and documents required?
(PG&E Commercial EV Site Requirements List)

ADDITIONAL RESOURCES

[Construction Best Practices](#)

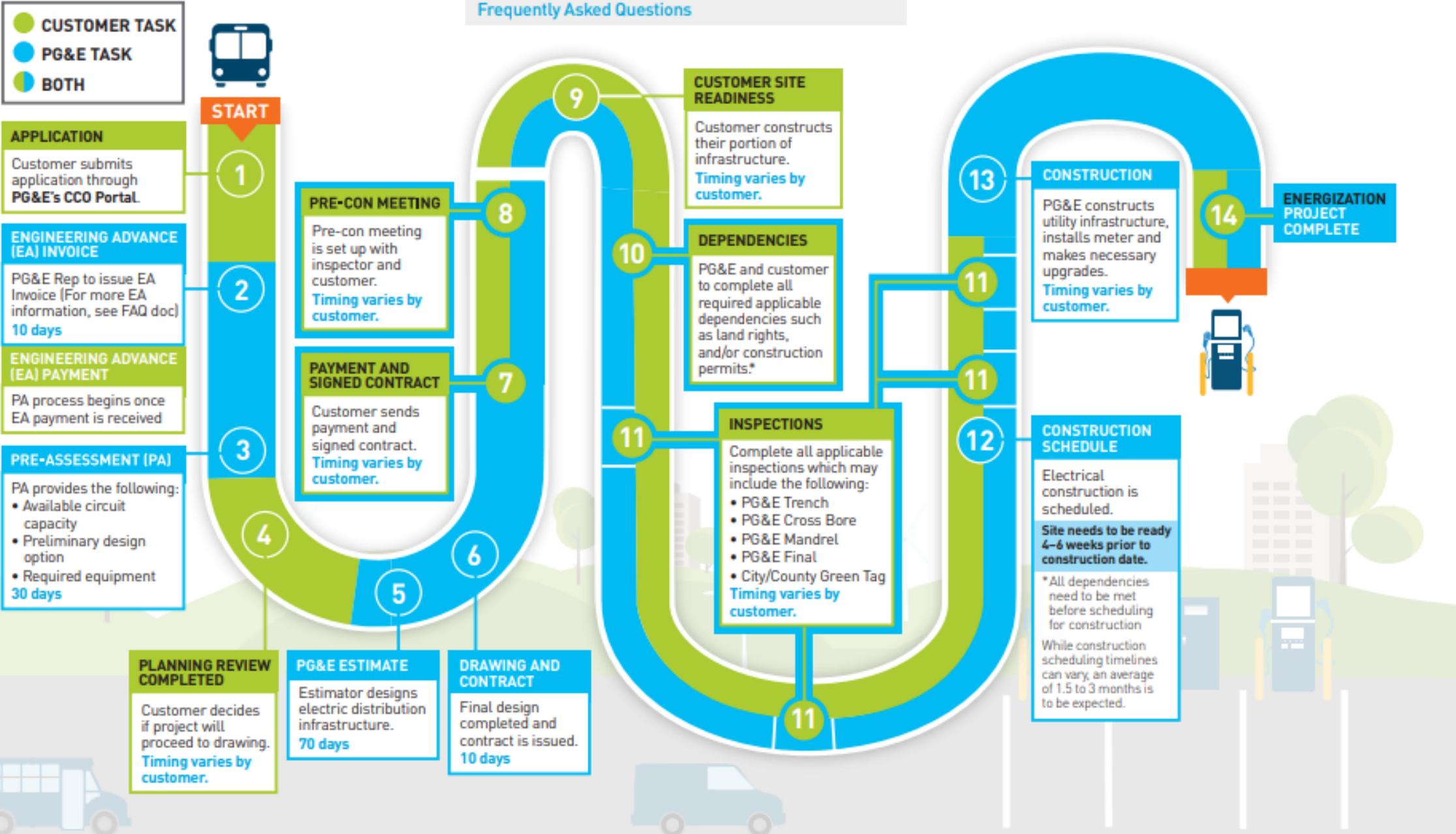
[Frequently Asked Questions](#)

KEYS TO SUCCESS

Understand applicable PG&E Standards and Process
(PG&E Greenbook)

Open communication with jurisdictional authorities

Project support from site host or landlord

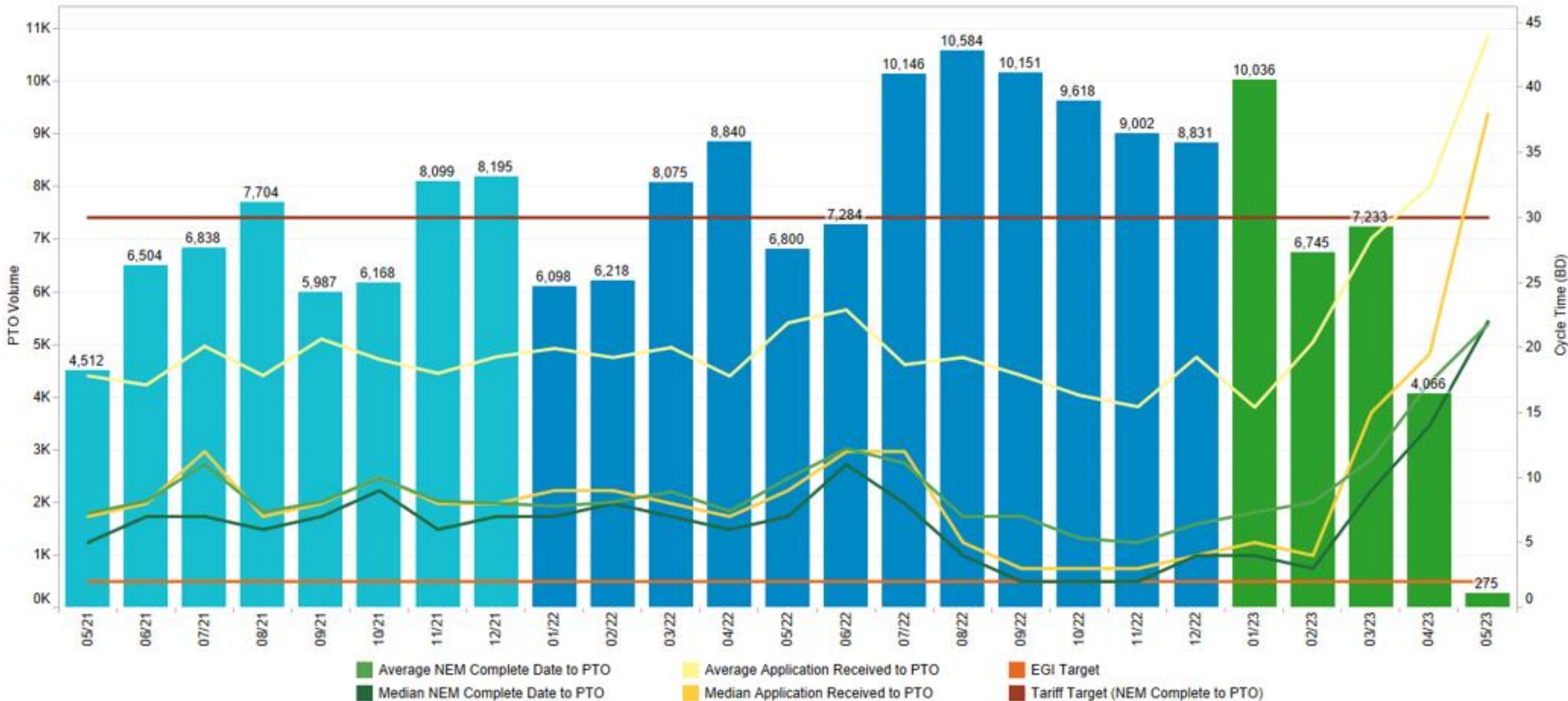


Appendix Electric Grid Interconnection (EGI)



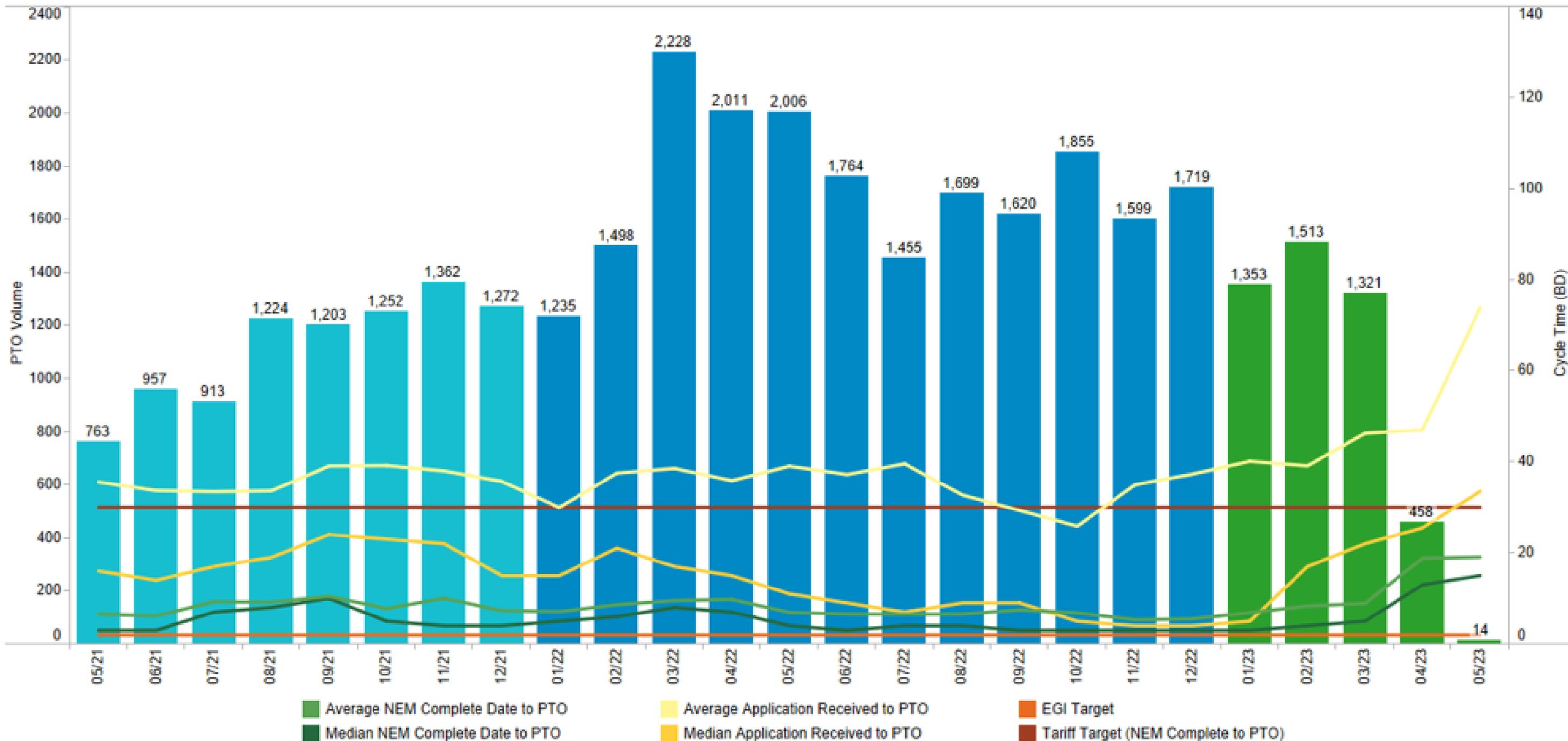


Interconnection Application Cycle Times - Standard NEM





Interconnection Application Cycle Times – Standard NEM with Paired Storage





Interconnection Application Cycle Times - Expanded NEM

