

EIM Implementation Update

February 23, 2022

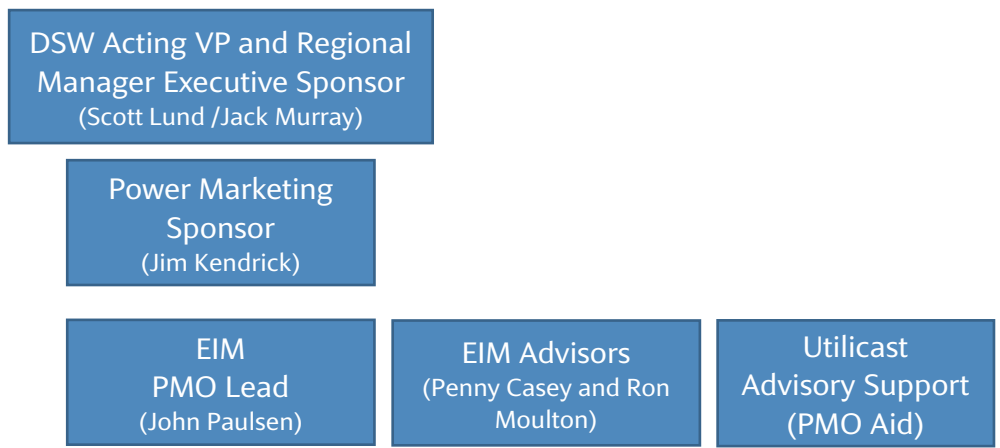


DSW's Markets Journey

- Cost Benefits Study
- Gap Assessment
- Customer Meeting
- Decision Framework/Decision Memo
- Project Charter
- EIM Implementation Agreement
- Announcement



DSW EIM Implementation Project Management Structure



CAISO Track	Track 1 Planning and Project Management	Track 2 Policy, Legal, Support	Track 3 Network Model and EMS Changes	Track 4 System Integration and Testing	Track 5 Metering and Settlements	Track 6 Operational Readiness and Training
General Scope Description	<ul style="list-style-type: none"> • Project Oversight • Issue Resolution • Risk Management 	<ul style="list-style-type: none"> • Legal Agreements • DMM / GRDT Registration • User Access 	<ul style="list-style-type: none"> • Full Network Model Alignment • EMS Updates 	<ul style="list-style-type: none"> • System Integration Test Plan, Market Sim, Other Data Exchanges 	<ul style="list-style-type: none"> • Metering and Settlements Activities for Market Readiness 	<ul style="list-style-type: none"> • Operational Readiness Activities to Support Go Live! For Market Entry
WAPA Track Lead(s)	• John Paulsen	• Kirsten McClure	• Colleen Wood • Ron Moulton	• Mark Phelps	• Trent Nunn	• Penny Casey
CAISO Lead	• Ayman Fattah	• Nicole Hines	• Ankit Mishra	• Jamil Daouk	• Priyanka Namburi	• Heidi Carder



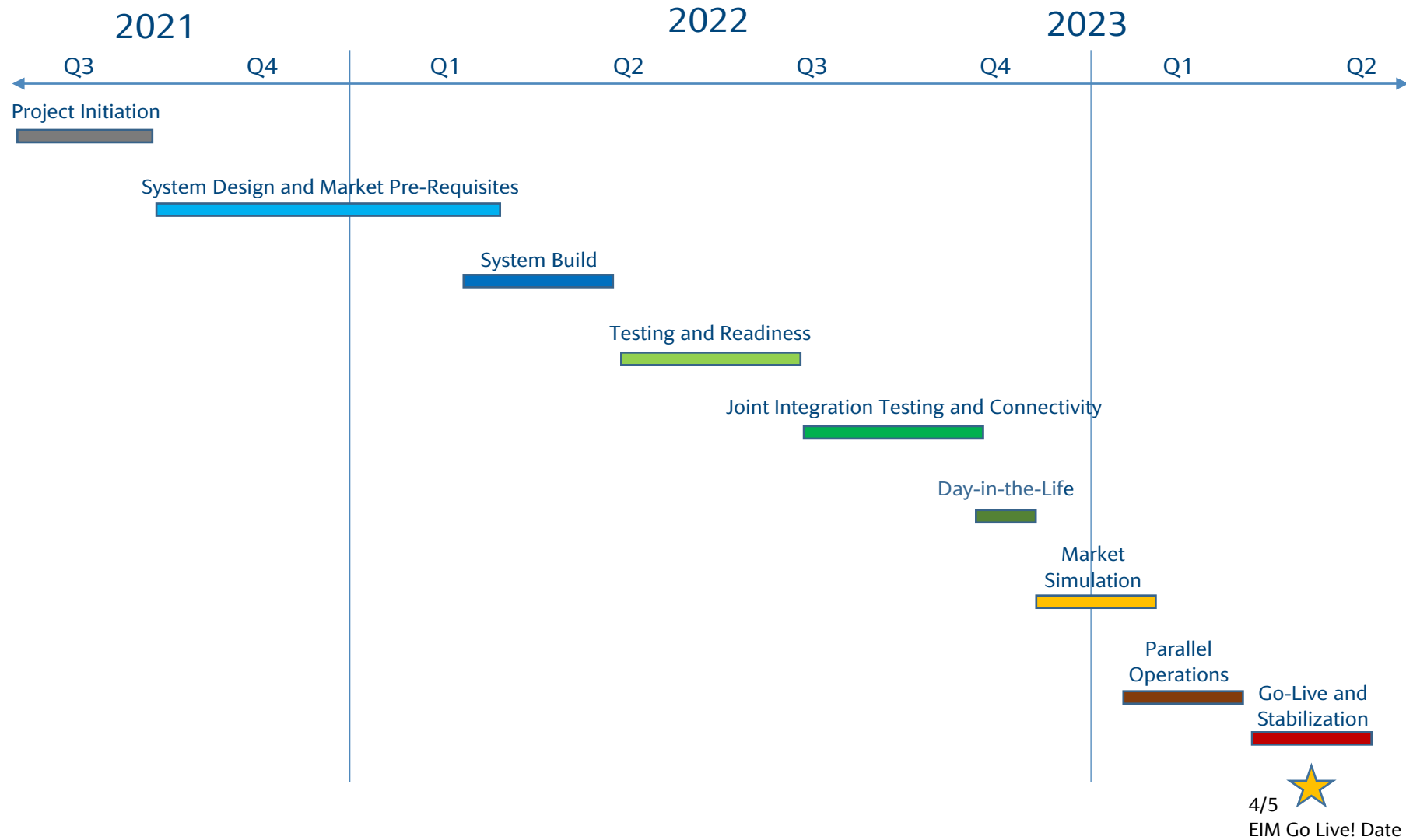
Acronyms:
 DMM – Department of Market Monitoring
 GRDT – Generator Resource Data Template
 EMS – Energy Management System

EIM Implementation Tracks

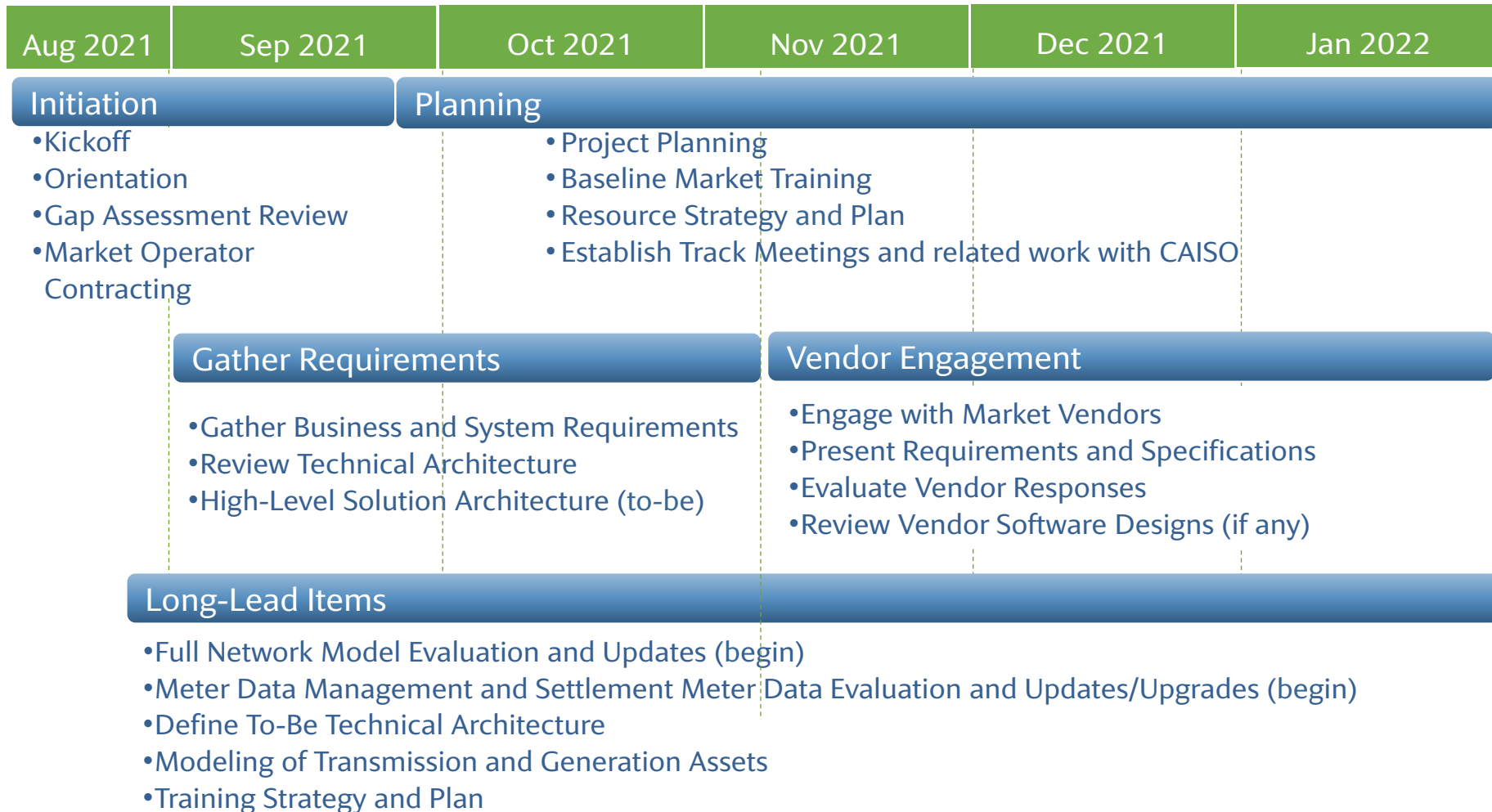
Track Number	Track Name	Tasks
1	Planning and Project Management	Project management of the EIM Entity Implementation, including oversight of schedule, budget, and scope.
2	Policy, Legal, and Support	Coordination of the legal and policy aspects of the EIM Entity Implementation, including supporting the EIM Entity's stakeholder process, OATT filing, Rates, Business Practices and legal agreements.
3	Network Model and EMS Changes	Interaction between the ISO and EIM Entity to ensure that the EIM Entity's Full Network Model is incorporated into the ISO's Full Network Model as well as any other EMS changes.
4	System Integration and Testing	Joint planning and execution of the system integration plan, test plan, market simulation plan, and other data and system exchanges.
5	Metering and Settlements	Communication and training of metering and settlements requirements between the ISO and the EIM Entity.
6	Operational Readiness and Training	All activities, including training, to ensure operational readiness of the EIM Entity into the EIM.



Major EIM Implementation Activities



EIM Implementation Activities conducted to date...



Activities Moving Forward

- Defining the WALC BA
 - Generation
 - How will we manage hydro resources?
 - What scheduling changes are required?
 - Transmission
 - Interties and modeling
 - Contact with neighbors and current EIM market participants
 - Building the full network model
- Agreements:
 - OATT Revisions
 - Business Practice Manual Creation
 - Rate Adjustment Process

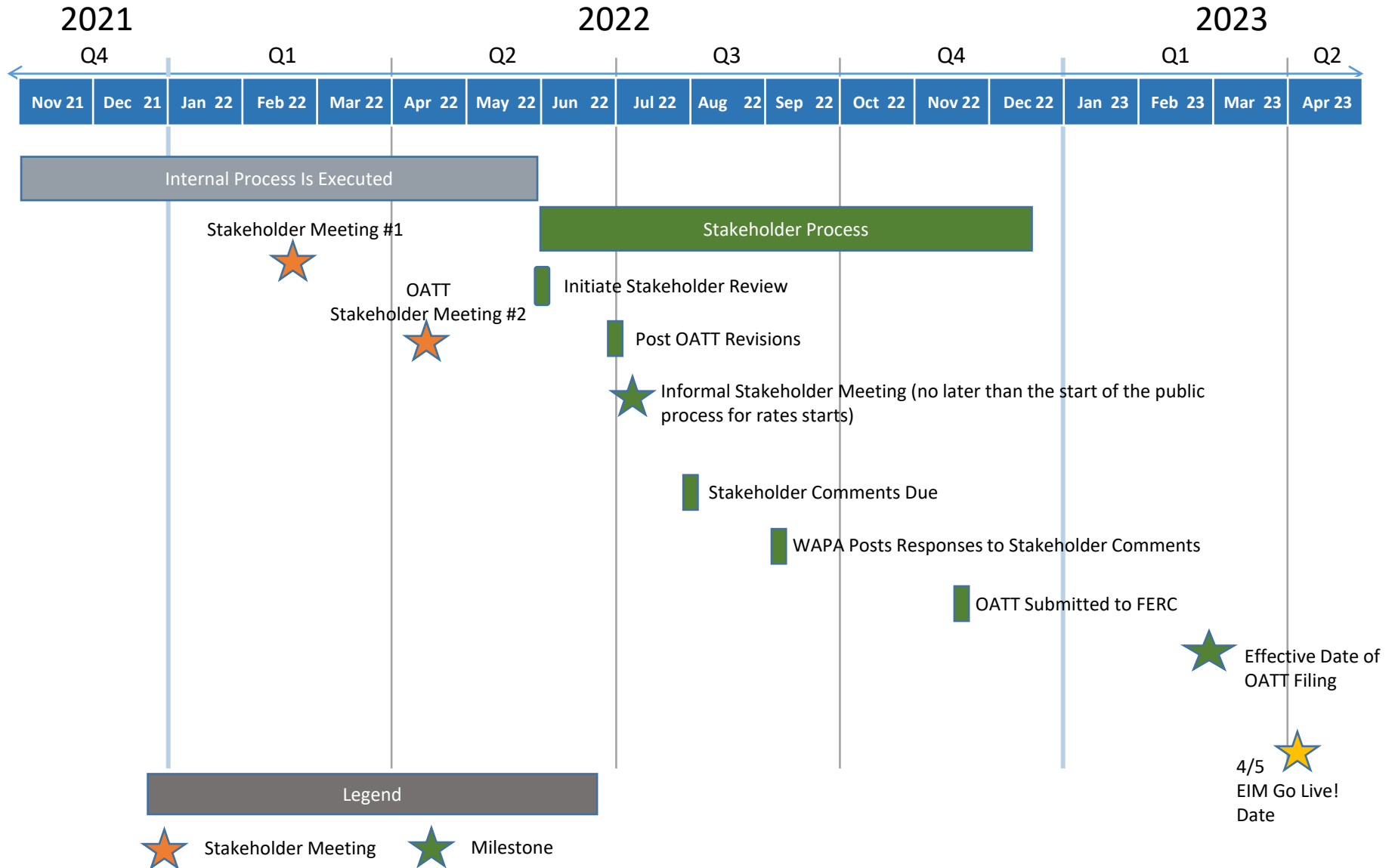


WAPA DSW Activities

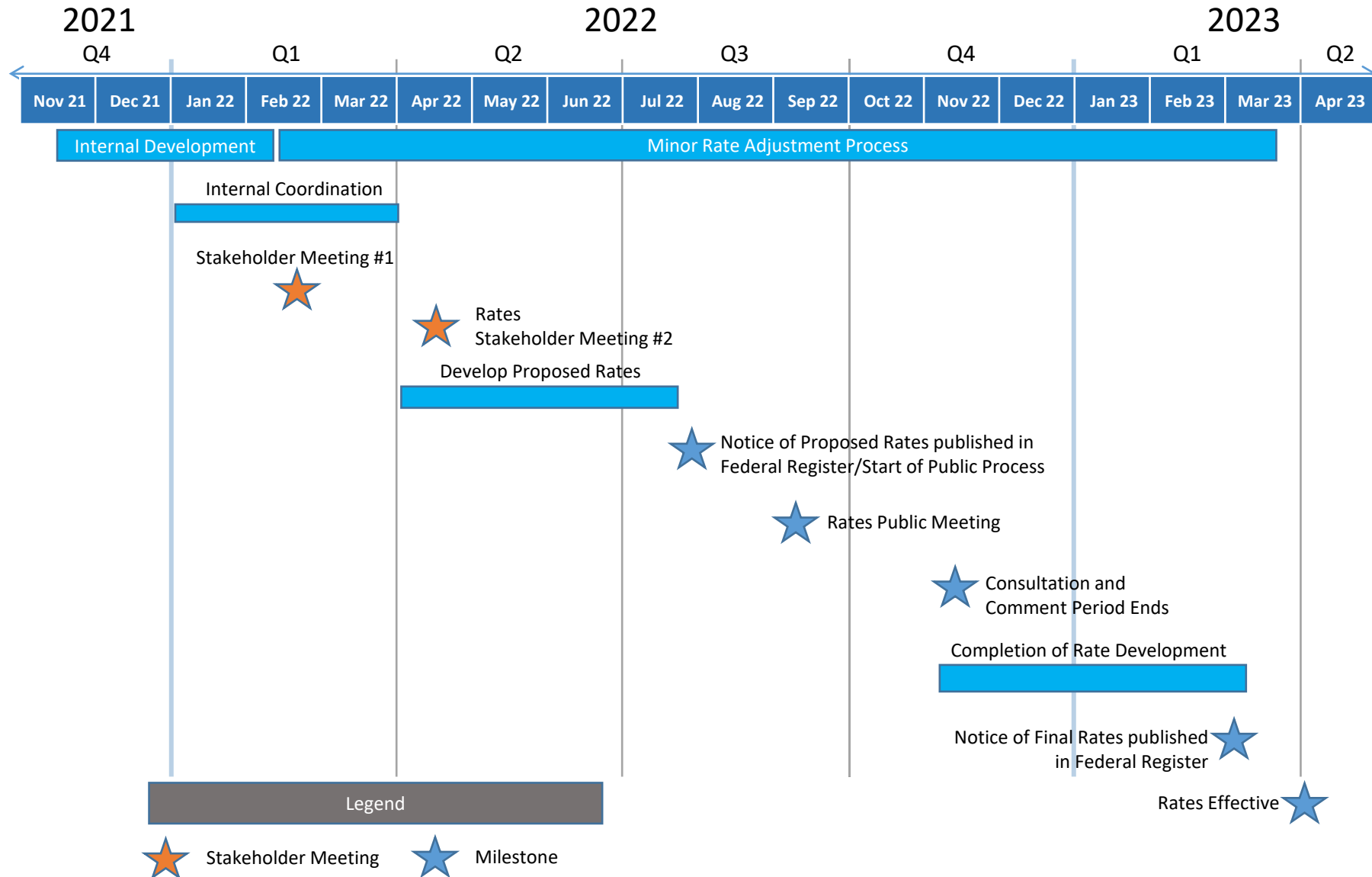
- OATT
- Rates
- Metering & Settlements
- Hoover
- AEPCO
- Next Steps



OATT Preparation Timeline



Rate Adjustment Timeline



Metering & Settlements Activity Update

- Current meter activities include:
 - Consolidating meter inventory
 - Ensuring compliance with WAPA DSW Meter Policy and CAISO Metering Policy
 - Reprogramming to 5-minute intervals
- Current settlements activities include:
 - Working to align operations with the charges and methodologies in collaboration with the OATT and Rates teams
 - Ensuring proposals for WAPA DSW are examined with stakeholders



Metering & Settlements Activity Update

EIM logistics

- WALC EIM Entity will settle with CAISO
- WALC EIM Entity will process CAISO's weekly invoices
- WALC EIM charges to be allocated in a similar fashion to other EIM Entities



EIM Update – Hoover Discussion

Guiding Principles and Contract Update

- WAPA DSW is working with our Hoover partners to confirm Hoover operations
- The guiding principles that WAPA DSW is following for the Hoover asset:
 - Hoover contract stays the same
 - Current energy and capacity rights will be maintained
 - Metering and Scheduling Instructions (MSI) attachment will require adjustments and those are under review in collaboration with our partners



EIM Update – Hoover Discussion

Initial Thinking on Logistics

- Precedent is set for joint owned units between BAAs to migrate to pseudo-ties prior to both becoming EIM entities
- For most entities this will involve converting from a Tie Gen to a pseudo-tie before WAPA DSW enters EIM operations. Details to be ironed out involve:
 - Modeling
 - Tagging and metering



EIM Update – Hoover Discussion

Work-in-Progress

- WAPA DSW is working with our Hoover partners and CAISO to iron out the logistics of EIM operations
 - Hoover scheduling entities are naming Technical Leads and the working team will be set-up to have recurring discussions as the scheduling and dispatch logistics are sorted out
 - Discussions are expected to last from Q1 through early Q4 as the details are ironed out and tested with our partners
- WAPA DSW is and will continue to be in regular communication with impacted parties to ensure information is shared in a timely manner



Arizona Electric Power Co-operative (AEPCO) SUB-ENTITY SCHEDULING COORDINATOR (SESC)

- AEPCO will be joining EIM as a SESC
 - First entity to join the market as such
- WAPA and CAISO support this participation approach
- Provides AEPCO with more visibility and control over their outages, load forecasts, and settlement processes
- Next Steps:
 - CAISO filed the proposal with FERC on 1/21/2022; effective 4/5/2022
 - CAISO/AEPCO will execute the Sub-Entity Implementation Agreement
 - WAPA/AEPCO will continue to coordinate through the implementation process



For further Information on EIM Implementation

<https://www.wapa.gov/regions/DSW/Pages/DSW-EIM.aspx>

<https://www.westerneim.com/Pages/JoinEIM.aspx>

We look forward to seeing you all at our next meeting in April.



Points of Contact

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Questions?



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