Resource aggregations are required to be within a single sub-Load Aggregation Point (LAP).

 Ensures demand response resource dispatch does not create additional congestion



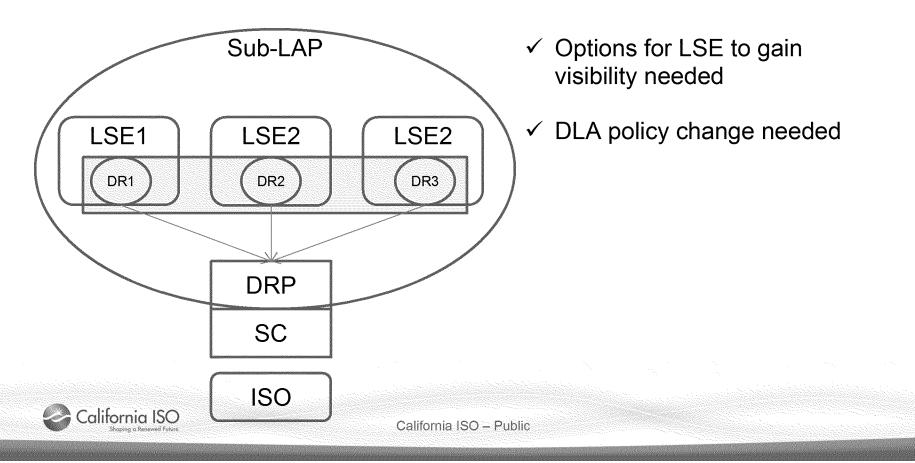
- ✓ A sub-LAP is an ISO-defined subset of pricing nodes (Pnodes) within a default LAP.
- ✓ 24 sub-LAPs were created to reflect major transmission constraints within each utility service territory (default LAP)
 - Developed initially for congestion revenue rights (CRRs)



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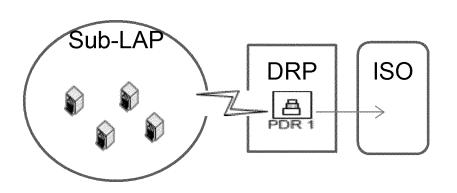
Resource aggregations are required for a single load serving entity (LSE)

 Ensures ability to provide visibility of DR awards to LSEs and ability to identify individual default load adjustment (DLA) contribution of LSE specific location performance.



Resource aggregations of 10 MW and above and those providing ancillary services require telemetry.

 Ensures visibility for real-time operation of the grid and compliance to mandatory and enforceable NERC and WECC approved reliability standards.

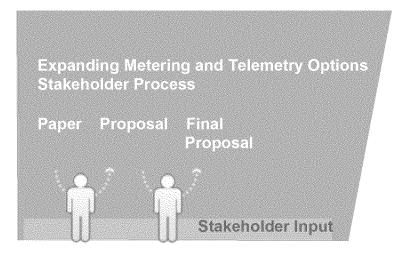


- ✓ RDRR does not require telemetry
- ✓ Telemetry is provided for the aggregate resource
- ✓ A single remote intelligent gateway (RIG) can represent multiple DR resources



Phase 1 Metering and Telemetry Options Initiative provided options for current transport, protocol, submittal and aggregator requirements.

 Required no tariff and minimal BPM changes for quick hits

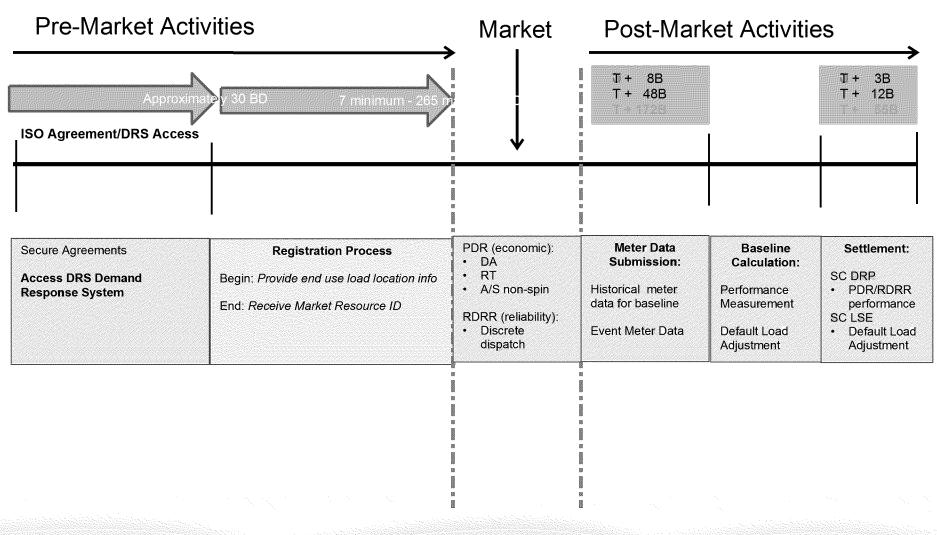


- ✓ Phase 1 proposal development completed, implementation in progress
 - May 14, stakeholder call
- ✓ Phase 2 launching in Q4 provides DERs aggregation benefits currently available to DR resources



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Sequential activities prepare for PDR/RDRR market participation



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Registration provides visibility and auditability of aggregated participation to multiple entities.

Create location

- · duplication check across DRP's
- UDC account # primary key
- validations
 - o duplication check across DRP's
 - o completeness validation

Create registration

- locations aggregated to create registration
- validations
 - o duplicate location across registrations
 - Sub-Lap/LSE/total load reduction

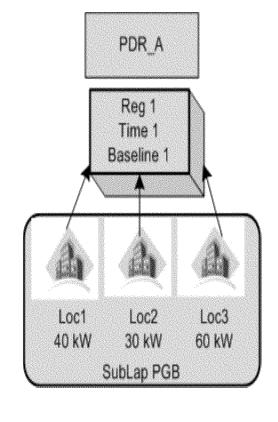
LSE/UDC/ISO registration review

UDC/LSE review registration including locations

Create resource and confirm

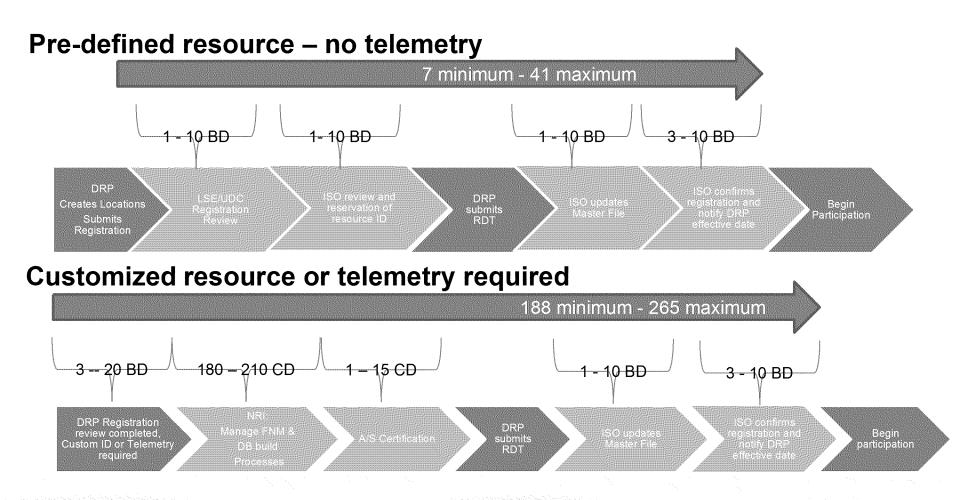
- resource ID provided, Resource data template submitted
- · masterfile updated





Slide 6

Timelines are affected by level and type of participation





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Deadlines for DR resources remain consistent with timelines for all resource types including load.

- Aligns ISO direct settlement with the DRP and LSE SC's
- ✓ Meter data submitted by SC as SQMD
 - historical meter data for baseline
 - event meter data
- ✓ Calculation in DR system
 - baseline
 - performance measurement
 - only
- ✓ Settlement
 - Direct settlement of PDR/RDRR performance with DRP's SC
 - Default load adjustment calculated and applied to LSE load meter data

T + 8 B initial

T + 48B recalculation

T + 3B initial

T + 12B recalculation

T + 55B recalculation



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Participants have options for their baseline methodology.

Baselines supports DR participation with separation between DRP and LSE

Date	Туре	Event	HE14
4/15/2009	WD	N	15.00
4/16/2009	ΦW	N	15.75
4/17/2009	WE	N	10.50
4/18/2009	WE	N	9.50
4/19/2009	ΦW	N	13.75
4/20/2009	WD	N	14.00
4/21/2009	WD	N	14.75
4/22/2009	WD	N	14.00
4/23/2009	WD	N	13.75
4/24/2009	WE	N	6.00
4/25/2009	WE	N	15.75
4/26/2009	WD	Y	14.80
4/27/2009	WD	Y	15.50
4/28/2009	WD	N	14.00
4/29/2009	WD	N	14.00
4/30/2009	WD	N	13.80

✓	10 in 10 non-event day baseline			
	methodology will be calculated by ISO			

- ✓ Alternative baseline can be used with ISO approval
 - Calculations performed by party other than ISO
 - Submitted as generation meter data

Selection Criteria	Type=WD
Where	Event=N WD = Week Day
	WE = Week End
	Event = Y if DA schedule, RT/AS dispatch por Outage

Date	MWH	Selection
4/15/2009	15.00	10
4/16/2009	15.75	9
4/19/2009	13.75	8
4/20/2009	14.00	7
4/21/2009	14.75	6
4/22/2009	14.00	5
4/23/2009	13.75	4
4/28/2009	14.00	3
4/29/2009	14.00	2
4/30/2009	13.80	1
10 Day Avg (Raw Baseline)	14.28	



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