

## On-Site Generation Economic DR settlements process (Update to 6/8/2021 DRS meeting)



- Implementation of High level DR Hub changes to enhance the on-site generation economic DR settlement process
  - Generation Cost section to appear on economic registrations having locations with on-site generation starting 9/1
  - Hourly Cost/Retail rate data to appear 9/1 on settlements corresponding to RT/DA Events occurring after 8/31/2021
- Upon implementation the requirement for historical data for On-Site generation will continue but to be supplied upon request to PJM.
  - Cogeneration applications

## DR Hub enhancements to simplify the settlement process

Example of Generator Cost/Retail rate sections on Settlement in DR Hub (note the 4 hourly columns on the far right):

	Settlement Details														
Tasks Location	s Registrations	Events	Meter Data	Energy Settlements	Compliance	Dispatch Groups	Account and Users	Reports	RERRA						
Cancel Sav	e Submit														XML
Settlement Id	579														XmL
CSP	PE			LSE	AE		EDC	BC							
Registration ID	10104			Registration Na	me Registrati	ion 1	Event Date	07/10/	/2021						
Program	Economic			Invoice Date			Pricing Poin	t APS_R	ESID_AGG		Note th	hat all indiv	vidual cel	ls in new o	columns
Zone *	APS			Status	Incomple	te	)				are edi	itable (Sup	nly cells or	lv editable	if retail
Dispatch Group				)									• •	•	
Details											rate typ	e 'Fixed' de	signated o	n registratio	(nc
Reduction Ho	our? HE		Ma	arket	Scheduled (kV	V) Dispatched (F	(W) Load (kW)	CBL	./Gen (kW)	Reduction (kW	/) Loss Factor	Supply (\$/Kwh)	Delivery (\$/Kwh)	Fuel Cost (\$/Mwh)	Variable OM (\$/Mwh)
	15	DA	Energy		3000.0	0.0	0.0		0.0	0.0	1.1	0.2	0.2	300.99	400.99
	16	DA	Inergy		3000.0	0.0	0.0		0.0	0.0	1.1	0.2	0.2	300.99	400.99
	17	DA	Energy		3000.0	0.0	0.0		0.0	0.0	1.1	0.2	0.2	300.99	400.99
	18	DA	Energy		3000.0	0.0	0.0		0.0	0.0	1.1	0.2	0.2	300.99	400.99
Total/Ave	erage				12000.0	0.0	0.0		0.0	0.0	1.10000	0.2	0.2	300.99	400.99
CBL Calculation CBL Method * Summary	MBL(Max Base Lo	oad)		Stz Va	itus Pend	ing									
										(	Download Meter Data	+ Upload Meter Data	Calculate CBL	Load Data Review	CBL Detail Report



- Based upon member feedback, PJM plans to determine settlement eligibility on an hourly basis.
  - If generator cost < retail rate for any hour, that settlement hour is not eligible for settlement
  - Hour will not be processed whether RT or DA energy

Date	Hour	Generator Cost	Retail Rate	Eligible
4/29/2021	11	\$60.00	\$29.24	YES
4/29/2021	12	\$60.00	\$24.18	YES
4/29/2021	19	\$60.00	\$137.49	NO
4/29/2021	20	\$60.00	\$55.49	YES
4/29/2021	21	\$60.00	\$180.77	NO
4/29/2021	22	\$60.00	\$52.47	YES



- Generator Cost = Fuel Cost + Variable Operation and Maintenance Cost (VOM)
  - Fuel Cost (include the estimated \$/MWh cost for fuel)
    - This can include gas demand charges where the demand charge is based on the monthly demand charges cost divided by the estimate run hours in the month.
  - VOM Cost (\$/MWh)
    - Variable Repair and Maintenance costs
    - Should \*not\* include employee salaries and benefits (not variable).