

Settlements Training

Participating Intermittent Resources Program (PIRP) Charge Types #701,711,721

Jamie Labban
916/351-2287
jlabban@caiso.com

Presentation Overview

- What is PIRP
- Charge Type Definition
- Examples
- Discussion of Settlements

What is PIRP?

- Allows Intermittent Resources to participate in the CAISO while limiting imbalance exposure
- Participating Intermittent Resources (PIRs)
 - Sign ISO Contracts
 - Install ISO Telemetry and Metering
 - Pay a forecasting fee based on MW production
 - Schedule to forecast HA
- Participating PIR's are exempt from UDP (Uninstructed Deviation Penalties) along with CTs 114 Replacement Reserve, 4407 (Uninstructed Energy), 4487 (Above Cap Charges).
- Amendment 42

Charge Type Definition

- **Charge Type 701 Forecasting Service Fee** – Assess the forecasting fees. Month end settlement statement.
- **Charge Type 711 Intermittent Resources Net Deviations** - End of the month charge assessing the net deviation for PIRs. Netted deviations are charged at the zonal weighted average MCP.
 - **Transmission losses** - Equal to gross MW produced * GMM * zonal Weighted Average MCP.

Charge Type Definition

- **Charge Type 721 Intermittent Resources Net Deviation Allocation Charge.** Allocate the difference between charges held by the CAISO (CT 114,4407,4470,4487 & more) and CT 711 to the SC with Net Negative Deviations.

PIRP Example Assumptions

Assumptions	Forecast MWs	Schedule MWs	Meter Read MWs	MCPs \$	Trans Loss	In PIRP ?
Hour 1	100	100	95	40	2%	Yes
Hour 2	105	105	114	50	2%	Yes
Hour 3	90	105	82	45	2%	No
			Weighted Monthly Ave	47		

***Assume MCP's do not
change for the entire hour.***

PIRP Example

Assumptions	Forecast MWs	Schedule MWs	Meter Read MWs	MCPs \$	Trans Loss
Hour 1	100	100	95	40	2%
Hour 2	105	105	114	50	2%
Hour 3	90	105	82	45	2%
			Weighted Ave	47	

Charge Types	701	711	114	4407	4487	4450	Total CT 711	Total CT 721
Hour 1	95	-5 * 47 = \$235	Prorata Share	-5 * \$40 = \$200	Prorata Share	95MW * 2% * \$47 = \$89.3	235 + 89.3 = \$324.3	235 - 200 = (\$35)
Hour 2	114	9 * 47 = \$ 423	Prorata Share	9 * \$50 = \$450	Prorata Share	114Mw * 2% * \$47 = \$107	423 - 107 = \$316	423 - 450 = \$27
Hour 3	82	0	Prorata Share	23 * \$45 = \$1035	Prorata Share	82MW * 2% * \$45 = \$73.80		
								-\$8
PIR CHARGES	291 MW * \$0.10/MWhr = (\$29.10)	4 MW * \$47=188		(\$1,035.00)		(\$73.80)		
PIR/ NND CHARGES								-\$8 \$188 = \$-180

PIRP Questions?

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