



Time-of-Use Base Interruptible Program for Aggregators



FACT SHEET

OVERVIEW

Southern California Edison's (SCE) Time-of-Use Base Interruptible Program (TOU-BIP) is an interruptible tariff, whereby a participant reduces load when notified by SCE. In exchange, SCE provides a payment based on the amount of load reduction contracted. SCE customers or third-party aggregators may participate in the tariff by aggregating the electrical load of SCE customer accounts served under a TOU tariff. SCE customers have the option to participate in TOU-BIP by becoming an aggregator, by joining a third-party aggregator, or by enrolling directly in the program. For more information on direct enrollment, please see www.sce.com/drp.

The Aggregated Group's monthly Maximum Demand must equal or exceed 200 kW, and the aggregator must commit to curtail at least 15% of such Maximum Demand, which will not be less than 100 kW per Period of Interruption.

Aggregators must choose a Firm Service Level (FSL), the minimum load the aggregator determines is necessary to meet the operational requirements of the customer service accounts in an Aggregated Group, during a TOU-BIP event. Aggregators will incur a penalty (excess energy charges) for failure to reduce load to its FSL during an event.

Eligibility

Any eligible SCE customer or third party may aggregate customer accounts' load and make it available for reduction or interruption under the TOU-BIP program. Aggregators must sign a TOU-BIP Aggregator Agreement to participate. They may not take insurance for willful failure to interrupt load. To be part of an Aggregated Group, SCE customer service accounts must be served under a TOU tariff. Essential use customers that are also exempt are NOT eligible to participate in Aggregated Groups.

CUSTOMER OBLIGATIONS

- A customer receiving service on a TOU tariff, and therefore having an IDR meter, may be part of an Aggregated Group regardless of service account demand. Customers currently not taking service on a TOU tariff must first switch to a TOU tariff before enrolling in an Aggregated Group.

- Service accounts in an Aggregated Group may not be enrolled in certain other SCE Demand Response programs, including I-6, TOU-BIP, SDP, AP-I, CBP, or CPP.
- Customers in an Aggregated Group may participate in the Demand Bidding Program (DBP) but may not receive payments from DBP if there is an overlapping event.
- All customers in an Aggregated Group must be:
 - On same voltage level
 - Bundled, Direct Access, or CCA — no combination groups are allowed
 - On one Notification Option only — A or B
- Aggregator's monthly credits will be calculated based on periods as defined in the TOU-BIP tariff, regardless of time periods defined in an individual customer's particular tariff, such as TOU-GS-3-SOP.
- The California Public Utilities Commission (CPUC) Affiliate Guidelines prohibit SCE from recommending a specific aggregator to a customer. SCE may refer interested customers to SCE's Web site, www.sce.com/drp, for a list of entities with a signed Aggregator Agreement.

AGGREGATOR OBLIGATIONS

- The aggregator must establish credit through a credit rating agency or by paying a deposit.
- Each aggregator will have at least one Remote Terminal Unit (RTU) installed and paid for by SCE per Notification Option located in SCE territory; one dedicated phone line per RTU; and another dedicated phone line for voice notification from SCE at all times (phone lines installed and paid for by aggregator).
- An Aggregated Group may be added any time of the year, but changes to a Group or termination of a Group may only be made during the November 1-December 1 window.
- During a Period of Interruption, the aggregator is entirely responsible for reducing load to its specified FSL. Excess energy charges will be assessed for failure to do so.



Notification Options and Credits

The need to implement load reductions is determined either by the California Independent System Operator (Stage 2) or SCE's Grid Control Center (system constraint).

Aggregators may choose between two notification options:

- A** — curtail load within 15 minutes of notification
- B** — curtail load within 30 minutes of notification

The aggregator will receive a monthly credit from SCE based on available interruptible load, even if there is no call for interruption. The amount of credit is relatively high in the summer months (on-peak and mid-peak) and substantially less during the winter months (mid-peak only).

How can one receive interruption status information?

As a courtesy, SCE provides additional Interruptible Program Status resources. (In rare cases, SCE experiences rapid interruptible information changes that may cause a delay to the manual process of posting to any of our systems. In these situations, every effort is made to provide this information as quickly as possible.)

- Interruptible Program Status Telephone Line: (888) 334-7764, toll-free, 24 hours a day, 7 days a week, 365 days a year
- Interruptible Program Web site: www.sce.com/I-6
- E-mail Notification Service
- Paging Notification Service

Note: Aggregators may not substitute the use of the additional courtesy interruptible program information services listed above as alternative methods of receiving SCE's notices of interruption. These services are provided purely for reference purposes, and are not alternatives to the Remote Terminal Unit and the dedicated telephone line. Failure to respond to a Notice of Interruption from SCE on the dedicated telephone line which notifies the customer of an interruption could result in a failure to interrupt, and may result in penalties for not complying with a notice of interruption, and may result in termination from TOU-BIP, as described in Rate Schedule TOU-BIP.

What are the TOU-BIP credit amounts?

An aggregator will be paid a monthly bill credit, regardless of whether or not there are interruption events. Bill credits vary according to voltage and are applied to the kW difference between each mid- and on-peak average demand and the aggregator's designated FSL. The following table illustrates a typical monthly credit.

Sample BIP Aggregation Credit Calculations for a Summer Month

Option A, service voltage below 2 KV, bundled customers, with aggregated FSL of 225 kW Summer Season On-Peak Period

	On-Peak kWh	On-Peak Hours*	Monthly Average Summer On-Peak Demand (MASO)	Aggregated Group FSL (KW)	Summer On-Peak Interruptible Load (kW)	Summer On-Peak Credit SOPC (\$kW)	Credit Amount
Customer 1	60,000	106	NA	NA	NA	NA	NA
Customer 2	40,000	106	NA	NA	NA	NA	NA
Customer 3	25,000	53	NA	NA	NA	NA	NA
Group Total	125,000	106	1,179	225	954	17.89	\$17,071

Summer Season Mid-Peak Period

	Mid-Peak kWh	Mid-Peak Hours*	Monthly Average Summer Mid-Peak Demand (MASM)	Aggregated Group FSL (KW)	Summer Mid-Peak Interruptible Load (kW)	Summer Mid-Peak Credit (SMPC) (\$kW)	Credit Amount
Customer 1	50,000	180	NA	NA	NA	NA	NA
Customer 2	30,000	180	NA	NA	NA	NA	NA
Customer 3	20,000	90	NA	NA	NA	NA	NA
Group Total	100,000	180	556	225	331	5.50	\$1,818
Total credit amount for month:							\$18,890

*Group peak hours same as any member in the group, since all are on the same billing cycle
Customer 3 has shortened hours because the account closed before billing cycle ended

Are Interruption Event Hours Considered in a TOU-BIP Credit?

Yes. An interruption event that occurs during a peak period (on-peak/mid-peak for summer and mid-peak for winter) would generally mean that an Aggregated Group's kWh usage would be less than normal during the event, and would therefore result in a lower credit caused by the reduced kWh usage calculated during that month.

Penalties Associated with TOU-BIP

Penalties, or "excess energy charges", may be applied each time an aggregator fails to reduce their electrical usage to their FSL during an interruption event. The following table illustrates a typical monthly excess energy charge.

Sample BIP Aggregation Excess Energy Charge Calculations for a Month

**Option A, service voltage below 2 KV, bundled customers, with aggregated FSL of 225 kW
Aggregator failed to drop load to contracted FSL during a three-hour interruption**

1st Two Hours	Load Registered during Interruption	FSL (kW)	Load in Excess of FSL	Duration of Interruption)	Excess Energy Use (kWh)	Penalty Factor (\$/kWh)	Excess Energy Charge
Customer 1	566	NA	NA	NA	NA	NA	NA
Customer 2	377	NA	NA	NA	NA	NA	NA
Customer 3	236	NA	NA	NA	NA	NA	NA
Group Total	1,179	225	954	2	1,908	10.21374	\$19,493
3rd Hour	Load Registered during Interruption	FSL (kW)	Load in Excess of FSL	Duration of Interruption)	Excess Energy Use (kWh)	Penalty Factor (\$/kWh)	Excess Energy Charge
Customer 1	666	NA	NA	NA	NA	NA	NA
Customer 2	477	NA	NA	NA	NA	NA	NA
Customer 3	336	NA	NA	NA	NA	NA	NA
Group Total	1,479	225	1,254	1	1,254	10.21374	\$12,811
Total excess energy charge for event:							\$32,303

The excess energy charge varies by voltage.

Aggregator Credit Requirements

- Demonstrate credit rating of:
 - Baa2 or higher - Moody's
 - BBB or higher – S&P, Fitch, or Duff & Phelps
- OR
- Pay a cost-based security deposit of \$4,000 or more, depending on the size and number of customers in an Aggregated Group.

CONTRACTUAL REQUIREMENTS

An aggregator must have a signed TOU-BIP Aggregator Agreement with SCE, designating the Aggregated Group's FSL and other information, to participate in TOU-BIP. The aggregator will identify the service accounts that are part of the Aggregated Group. Customers enrolled in the Group must also sign and consent to be on that Aggregated Group. The Agreement is available through the SCE Web site (www.sce.com/drp). Aggregators may request to opt-out or adjust their FSL once per year during the annual November 1 to December 1 window. Changes made during the opt-out window become effective on the next scheduled meter read date after December 1, following verification of the request.

How does a Customer sign up for Schedule TOU-BIP through an Aggregator?

To enroll directly in SCE's Time-of-Use Base Interruptible Program, contact your account representative, visit www.sce.com/drp, or call the DRP Helpline at **(866) 334-7827**. To enroll through an aggregator, see the listing of aggregators at SCE's Web site, www.sce.com/drp.

How does a Customer or a Third Party Become an Aggregator?

Visit www.sce.com/drp, call the DRP Helpline at **(866) 334-7827**, or contact your SCE account representative.

FOR MORE INFORMATION

SCE offers several programs to assist customers in the management of their electricity costs, such as rebates, incentives, energy surveys, and payment options. If you have questions regarding TOU-BIP or any other SCE Demand Response Programs, call the DRP Helpline at **(866) 334-7827**; or call **(800) 990-7788**, contact your account representative, or visit www.sce.com/drp.

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This fact sheet is meant to be an aid to understanding SCE's pricing schedules. It does not replace the CPUC-approved tariffs. Please refer to the individual rate schedule of interest for a complete listing of terms and conditions of service, which can be viewed online at www.sce.com.

