ERCOT Market Education

Settlements 301

Module 7: Statements & Invoices
CRR Auction

CRR Auction Invoice

CARD Invoice
## CRR Invoices

### CRR Auction

<table>
<thead>
<tr>
<th>Invoice</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRR Auction</td>
<td>CRRAH</td>
<td>Per Auction</td>
<td>• Awarded CRRs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Awarded PCRRs</td>
</tr>
<tr>
<td>CARD</td>
<td>QSE representing Load</td>
<td>Monthly</td>
<td>• Distribution of net Auction Revenues</td>
</tr>
</tbody>
</table>
## CRR AUCTION INVOICE

**Auction:** MONTHLY-SEPTEMBER, 2016  
**Invoice No:** CRR8195  
**Invoice Date:** 08/19/2016  
**Payments are due to ERCOT by:** 5:00 P.M. (CPT) on 08/24/2016  
**Payments will be made to Invoice Recipients by:** 5:00 P.M. (CPT) on 08/25/2016  
**AMOUNT OWED (DUE):** $1,711,942.77

### INVOICE RECIPIENT

- **Name:** EXAMPLE CUSTOMER NAME (CRRAH)  
- **ID:** 123456789

### INVOICE DETAILS

<table>
<thead>
<tr>
<th>CRR ID</th>
<th>HEDGE TYPE</th>
<th>PCRR TYPE</th>
<th>BUY/SELL</th>
<th>AMOUNT</th>
<th>CLEARING PRICE</th>
<th>AWARD FEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>40736912</td>
<td>OBLPAMT</td>
<td></td>
<td>B</td>
<td>$23.18</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40736913</td>
<td>OPTPAMT</td>
<td></td>
<td>B</td>
<td>$55.91</td>
<td>$0.02</td>
<td>$0.00</td>
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<tr>
<td>40736914</td>
<td>OPTPAMT</td>
<td></td>
<td>B</td>
<td>$135.12</td>
<td>$0.02</td>
<td>$0.00</td>
</tr>
<tr>
<td>40736915</td>
<td>OBLPAMT</td>
<td></td>
<td>B</td>
<td>$11,701.77</td>
<td>$0.02</td>
<td>$0.00</td>
</tr>
<tr>
<td>40736916</td>
<td>OPTPAMT</td>
<td></td>
<td>B</td>
<td>$6,186.16</td>
<td>$0.68</td>
<td>$0.00</td>
</tr>
<tr>
<td>40736977</td>
<td>OBLPAMT</td>
<td></td>
<td>B</td>
<td>$880.46</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td></td>
<td></td>
<td>$1,711,942.77</td>
<td></td>
<td>$0.00</td>
</tr>
</tbody>
</table>

### REMITTANCE INFORMATION

- **Account Name**  
  - **ERCOT Account:** EXAMPLE ERCOT ACCOUNT NAME  
  - **Recipient Account:** EXAMPLE CRRAH ACCOUNT NAME  
- **Bank Name**  
  - **ERCOT Account:** EXAMPLE ERCOT BANK NAME  
  - **Recipient Account:** EXAMPLE CRRAH BANK NAME  
- **ABA Routing Number**  
  - **ERCOT Account:** 111111111  
  - **Recipient Account:** 222222222  
- **Account Number**  
  - **ERCOT Account:** 3333333333  
  - **Recipient Account:** 4444444444

**Overdue Terms**

In the event ERCOT does not receive your payment by close of business on the "Payments are due to ERCOT" date, CRR Bids awarded and/or PCRRs allocated shall be forfeited by the Invoice Participant.
CRR Auction Invoice Timeline

**CRR Auction Completed**

- **Day 1**: Auction Results Posted
- **Day 4**: Payments Due to ERCOT
- **Day 5**: Payments Due to CRR Account Holders

* Business Day

** Business Day & Bank Business Day
# CRR AUCTION REVENUE DISTRIBUTION (CARD INVOICE)

**Time Period:** JUL 2016

**Invoice No:** CRD14478

**Invoice Date:** 08/08/2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on: 08/15/2016
Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: 08/16/2016

**AMOUNT OWED (DUE):** ($89,241.48)

## INVOICE RECIPIENT

**Name:** EXAMPLE SERVICE CORP (QSE)

**ID:** 123456789

## DESCRIPTION

<table>
<thead>
<tr>
<th>Description</th>
<th>Category</th>
<th>Monthly Totals</th>
<th>Billable Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>LACMRNZBILLAMT - Load-Allocated CRR Monthly Revenue Non-Zonal Bill Amount</td>
<td>INITIAL</td>
<td>($60,738.10)</td>
<td>($60,738.10)</td>
</tr>
<tr>
<td>LACMRZBILLAMT - Load-Allocated CRR Monthly Revenue Zonal Bill Amount</td>
<td>INITIAL</td>
<td>($28,503.38)</td>
<td>($28,503.38)</td>
</tr>
<tr>
<td>TOTALS</td>
<td>INITIAL Distribution</td>
<td>($89,241.48)</td>
<td>($89,241.48)</td>
</tr>
</tbody>
</table>

## REMITTANCE INFORMATION

<table>
<thead>
<tr>
<th>Account Name</th>
<th>ERCOT Account</th>
<th>Recipient Account</th>
</tr>
</thead>
<tbody>
<tr>
<td>Account Name</td>
<td>EXAMPLE ERCOT ACCOUNT NAME</td>
<td>EXAMPLE ACCOUNT NAME</td>
</tr>
<tr>
<td>Bank Name</td>
<td>EXAMPLE ERCOT BANK NAME</td>
<td>EXAMPLE BANK NAME</td>
</tr>
<tr>
<td>ABA Routing Number</td>
<td>111111111</td>
<td>2222222222</td>
</tr>
<tr>
<td>Account Number</td>
<td>3333333333</td>
<td>4444444444</td>
</tr>
</tbody>
</table>

## Overdue Terms

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.
CRR Auction Revenue Distribution (CARD) Invoice

- **Settlement Completed**
  - Last RTM Settlement of the month posted

- **Day 1***
  - Card Invoice issued

- **Day 6***
  - Payments Due to ERCOT

- **Day 7***
  - Payments Due to QSEs with Load

* Business Day

** Business Day & Bank Business Day

---

Final settlement only
Day-Ahead Market: Statements

Day-Ahead Market Statement

DAM
## Day-Ahead Market Statement

<table>
<thead>
<tr>
<th>Statement</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day-Ahead Market</td>
<td>QSE</td>
<td>Daily</td>
<td>• Participation in the DAM</td>
</tr>
<tr>
<td>Day-Ahead Market</td>
<td>CRRAH</td>
<td>Daily</td>
<td>• CRRs Settled in the DAM</td>
</tr>
</tbody>
</table>
**Participant Name:** EXAMPLE CUSTOMER NAME (QSE)  
**Participant ID:** 123456789  
**Statement ID:** DAM_STATEMENT_20160824_123456789_D1  
**Operating Day:** 08/24/2016

## TOTALS

<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Billed Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAM</td>
<td>1</td>
<td>($46,846.59)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Operating Day Total</td>
</tr>
</tbody>
</table>

### DAY-AHEAD ANCILLARY SERVICES

- **NO ACTIVITY**

### DAY-AHEAD ENERGY

<table>
<thead>
<tr>
<th>Charge Type</th>
<th>Vers</th>
<th>Status</th>
<th>Total Amt</th>
<th>Billable Amt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day-Ahead Energy Payment Amount QSE Total</td>
<td>1</td>
<td>DAM</td>
<td>($46,846.59)</td>
<td>($46,846.59)</td>
</tr>
<tr>
<td>Day-Ahead Energy Charge Amount QSE Total</td>
<td>1</td>
<td>NO ACTIVITY</td>
<td>Net</td>
<td>NO ACTIVITY</td>
</tr>
</tbody>
</table>

### DAY-AHEAD MAKE-WHOLE

- **NO ACTIVITY**

### DAY-AHEAD CONGESTION REVENUE RIGHTS

- **NO ACTIVITY**

## TOTALS

<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Billed Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAM</td>
<td>1</td>
<td>($46,846.59)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Operating Day Total</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Billed Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAM</td>
<td>1</td>
<td>($111,872.66)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Operating Day Total</td>
</tr>
<tr>
<td></td>
<td></td>
<td>($111,872.66)</td>
</tr>
</tbody>
</table>

DAY-AHEAD CONGESTION REVENUE RIGHTS
Billable Amt: ($111,872.66)
Day-Ahead Market Settlement Timeline

*Must be a Business Day or move to next Business Day
Real-Time Market: Statements
# Real-Time Market: Statements

## Real-Time Market Statements

<table>
<thead>
<tr>
<th>Statement</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Real-Time Market</td>
<td>QSE</td>
<td>Daily</td>
<td>• Participation in Real-Time</td>
</tr>
</tbody>
</table>
# REAL-TIME MARKET STATEMENT

<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Billed Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RTM_INITIAL</strong></td>
<td>1</td>
<td>$1,365.09</td>
</tr>
<tr>
<td><strong>Operating Day Total</strong></td>
<td></td>
<td>$1,365.09</td>
</tr>
</tbody>
</table>

## SETTLEMENT SUMMARY

**Participant Name**: EXAMPLE CUSTOMER NAME (QSE)  
**Participant ID**: 123456789  
**Statement ID**: RTM_INITIAL_STATEMENT_20160821_123456789_I1  
**Operating Day**: 08/21/2016

### TOTALS

- **REAL-TIME ANCILLARY SERVICES**  
  Billable Amt: $0.00

- **BLACK START CAPACITY**  
  Billable Amt: $0.00

- **EMERGENCY OPERATIONS**  
  NO ACTIVITY

- **GENERATION RESOURCE BASE-POINT DEVIATION**  
  Billable Amt: $0.00

- **REAL-TIME CONGESTION REVENUE RIGHTS**  
  NO ACTIVITY

- **REAL-TIME ENERGY**  
  Billable Amt: $1,365.09

- **REAL-TIME REVENUE NEUTRALITY ALLOCATION**  
  Billable Amt: $0.00

- **RELIABILITY MUS TRUN**  
  Billable Amt: $0.00

- **RELIABILITY UNIT COMMITMENT**  
  NO ACTIVITY

- **VOLTAGE SUPPORT**  
  Billable Amt: $0.00

- **ADMINISTRATIVE FEES**  
  Billable Amt: $0.00

---

<table>
<thead>
<tr>
<th>Status</th>
<th>Version</th>
<th>Billed Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RTM_INITIAL</strong></td>
<td>1</td>
<td>$1,365.09</td>
</tr>
<tr>
<td><strong>Operating Day Total</strong></td>
<td></td>
<td>$1,365.09</td>
</tr>
</tbody>
</table>
Real-Time Settlement Timeline

*Must be a Business Day or move to next Business Day
Settlement Invoices
# Single Daily Settlement Invoice

## Settlement Invoices

### Receiving Entity | Statement Type | Contents
---|---|---
QSE | • Day-Ahead Market  
• Real-Time | • Payments and charges from DAM  
• Real-Time Initial settlement  
• Real-Time Final settlement  
• Real-Time True-Up settlement

CRRAH | Day-Ahead Market | CRRs Settled in the DAM
Settlement Invoice Timeline

- **Farm Day**: ERCOT Issues Invoice
  - DAM
  - RTM Initial
  - RTM Final
  - RTM True-up

- **Invoice Day + 2**: Payment Due to ERCOT
- **Invoice Day + 3**: Payment Due to Market Participant

1700
SETTLEMENT INVOICE

Invoice No: STL417477
Invoice Date: 08/26/2016

Payments are due to ERCOT by 5:00 P.M.
Payments will be made to Invoice Recipients by 5:00 P.M.

AMOUNT OWED (DUE): $45,481.50

INVOICE RECIPIENT
Name: EXAMPLE CUSTOMER NAME (QSE)
ID: 123456789

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>STATEMENT ID</th>
<th>OPERATING DAY</th>
<th>STATEMENT AMOUNT</th>
<th>SUBTOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAM Statements</td>
<td>DAM_STATEMENT_20160824_006979876_D1</td>
<td>08/24/2016</td>
<td>($46,846.59)</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>DAM Statements Subtotal</strong></td>
<td></td>
<td><strong>($46,846.59)</strong></td>
<td></td>
</tr>
<tr>
<td>Initial Statements</td>
<td>RTM_INITIAL_STATEMENT_20160821_006979876_I1</td>
<td>08/21/2016</td>
<td>$1,365.09</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Initial Statements Subtotal</strong></td>
<td></td>
<td><strong>$1,365.09</strong></td>
<td></td>
</tr>
<tr>
<td>Final Statements</td>
<td>RTM_FINAL_STATEMENT_20160702_006979876_F2</td>
<td>07/02/2016</td>
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<td></td>
<td><strong>Final Statements Subtotal</strong></td>
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<td><strong>$0.00</strong></td>
<td></td>
</tr>
<tr>
<td>True-Up Statements</td>
<td>RTM_TRUEUP_STATEMENT_20160228_006979876_T3</td>
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<tr>
<td></td>
<td><strong>True-Up Statements Subtotal</strong></td>
<td></td>
<td><strong>$0.00</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>NET AMOUNT OWED (DUE)</strong></td>
<td></td>
<td><strong>($45,481.50)</strong></td>
<td></td>
</tr>
</tbody>
</table>

REMITTANCE INFORMATION

<table>
<thead>
<tr>
<th>Account Name</th>
<th>ERCOT Account</th>
<th>Recipient Account</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXAMPLE ERCOT ACCOUNT NAME</td>
<td>EXAMPLE QSE ACCOUNT NAME</td>
</tr>
<tr>
<td></td>
<td>EXAMPLE ERCOT BANK NAME</td>
<td>EXAMPLE QSE BANK NAME</td>
</tr>
<tr>
<td>ABA Routing Number</td>
<td>1111111111</td>
<td>2222222222</td>
</tr>
<tr>
<td>Account Number</td>
<td>3333333333</td>
<td>4444444444</td>
</tr>
</tbody>
</table>

Overdue Terms
In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.
CRR Balancing Account

CRR Balancing Account Invoice
## CRR Balancing Account Invoices

<table>
<thead>
<tr>
<th>Invoice</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRR Balancing Account</td>
<td>CRRAH</td>
<td>Monthly</td>
<td>• Refund to CRR Account Owners Short-Paid in the DAM</td>
</tr>
<tr>
<td>CRR Balancing Account</td>
<td>QSE representing Load</td>
<td>Monthly</td>
<td>• Disbursement of remaining Balancing Account funds</td>
</tr>
</tbody>
</table>
CRR BALANCING ACCOUNT INVOICE

Time Period: JUL-2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on 08/10/2016.

Amount Owed (Due): ($81,942.44)

INVOICE RECIPIENT

Name: EXAMPLE CUSTOMER NAME (CRRAH)
ID: 123456789

DESCRIPTION | CATEGORY | MONTHLY TOTALS | BILLABLE AMOUNT
--- | --- | --- | ---
CRRRAMT - CRR Refund Amount | Channel 1 | ($81,942.44) | ($81,942.44)

TOTALS | Channel 1 Distribution | ($81,942.44)

REMITTANCE INFORMATION

<table>
<thead>
<tr>
<th>Account Name</th>
<th>ERCOT Account</th>
<th>Recipient Account</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXAMPLE ERCOT ACCOUNT NAME</td>
<td>EXAMPLE CRRAH ACCOUNT NAME</td>
</tr>
<tr>
<td></td>
<td>EXAMPLE ERCOT BANK NAME</td>
<td>EXAMPLE CRRAH BANK NAME</td>
</tr>
<tr>
<td>ABA Routing Number</td>
<td>111111111</td>
<td>222222222</td>
</tr>
<tr>
<td>Account Number</td>
<td>3333333333</td>
<td>4444444444</td>
</tr>
</tbody>
</table>

Overdue Terms

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.
CRR BALANCING ACCOUNT INVOICE

Time Period: JUL-2016

Invoice No: CBA16949
Invoice Date: 08/08/2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on: 08/10/2016
Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: 08/10/2016

AMOUNT OWED (DUE): $0.00

INVOICE RECEIVER

Name: EXAMPLE CUSTOMER NAME (QSE)
ID: 123456789

DESCRIPTION | CATEGORY | MONTHLY TOTALS | BILLABLE AMOUNT
--- | --- | --- | ---
LACRRAMT - Load-Allocated CRR Amount | Channel 1 | $0.00 | $0.00

TOTALS | Channel 1 Distribution | $0.00

REMITTANCE INFORMATION

<table>
<thead>
<tr>
<th>Account Name</th>
<th>ERCOT Account</th>
<th>Recipient Account</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EXAMPLE ERCOT ACCOUNT NAME</td>
<td>EXAMPLE QSE ACCOUNT NAME</td>
</tr>
<tr>
<td>Bank Name</td>
<td>EXAMPLE ERCOT BANK NAME</td>
<td>EXAMPLE QSE BANK NAME</td>
</tr>
<tr>
<td>ABA Routing Number</td>
<td>11111111</td>
<td>22222222</td>
</tr>
<tr>
<td>Account Number</td>
<td>3333333333</td>
<td>4444444444</td>
</tr>
</tbody>
</table>

Overdue Terms
In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.
# Default Uplift for DAM or Real-Time

<table>
<thead>
<tr>
<th>Invoice</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Uplift Invoice</td>
<td>QSE or CRRAH</td>
<td>Short Pay + 180 Days</td>
<td>• Collects Short-Pay if no payment plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Pays to recipients previously short-paid</td>
</tr>
</tbody>
</table>
Miscellaneous Invoices

Misc.

Miscellaneous Invoice
## Miscellaneous Invoice

<table>
<thead>
<tr>
<th>Invoice</th>
<th>Receiving Entity</th>
<th>Timeframe</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miscellaneous</td>
<td>All Market Participants</td>
<td>As Needed</td>
<td>• Miscellaneous items</td>
</tr>
</tbody>
</table>
Module Conclusion

CRR Auction
- Charges & Payments for CRRs
- Revenue Distribution

CRR Balancing Account
- Reconcile CRR Short payments

DAM
- Participation in DAM
  - Energy
  - AS
  - PTP Obligations
- DAM Commitment
  - Make-Whole
- Settlement of CRRs purchased in the Auction

RUC
- Commitment
  - Make-Whole
  - Clawback
- Decommitment

Real-Time
- Real-Time Activities
  - Imbalances
  - Base Point Deviations
  - Other odds & ends
- Settlement of PTP Obligations purchased in the DAM
- Real Time Ancillary Service Settlements
- Revenue Neutrality

CRR Balancing Account

ERCOT Protocols
http://www.ercot.com/mktrules/nprotocols/

ERCOT Account Management Services
Clientservices@ercot.com

ERCOT Market Education
http://www.ercot.com/services/training/

ERCOT Market Education Contact
Training@ercot.com
Got Feedback?

Scan this QR code to take the course survey!

https://www.surveymonkey.com/r/ERCOTILT