



New eDataFeed + LMP Contour Map

Market Implementation
Committee – April 15, 2009

- New Features
- Examples
- Query Technique
- New LMP Contour Map
- eDataFeed 5.0 Documentation Link
- Implementation Schedule
- eData Stakeholders group
- Questions

72-hour Load + Day Ahead Demand forecasts

.Net support as well as SOAP

More Day-Ahead and Settlement LMP data online

Area Control Error (ACE) – 15 sec.

Dispatch Lambda Rates (DR) + Zone IDs – 15 sec.

Constraints + Shadow Prices – 5 mins.

Split into PJM total RTO load and Regional loads

- getAllForecastedTotalLoad
- getAllForecastedRegionalLoad

Covers Yesterday, Today and Tomorrow

Updated ~ every ½ hour (xx:13, xx:43)

- use getNewestForecastedLoadDate to determine new data posts

Returns Timestamp of last Forecast update

Data points represent the forecasted integrated (average) load for the hour specified (EPT).

getAllForecastedTotalLoad

```
<timestamp>2009-04-03T10:43:48-04:00</timestamp>
<actualValueData>
  <dataSource>ForecastedLoad</dataSource>
  <name>PJM RTO Total</name>
  <timestamp>2009-04-02T00:00:00-04:00</timestamp>
  <value>62321.0</value>
  <errorCodeId>0</errorCodeId>
</actualValueData>
```

getAllForecastedRegionalLoad

```
<timestamp>2009-04-03T10:13:16-04:00</timestamp>
<actualValueData>
  <dataSource>ForecastedLoad</dataSource>
  <name>Mid-Atlantic Region</name>
  <timestamp>2009-04-02T00:00:00-04:00</timestamp>
  <value>25376.0</value>
  <errorCodeId>0</errorCodeId>
</actualValueData>
```



Day Ahead Demand

Updated daily at ~16:00, but can be delayed

Includes total RTO Demand and Regional Demand

No getNewestDate function

Data points represent the forecast integrated (average) load for the hour specified (in GMT).

```
<ns2:getAllDayAheadLoadResponse xmlns:ns2="http://edatafeed.pjm.com/">
```

```
  <collectionActualValueData>
```

```
    <timestamp>2009-04-04T03:00:00-04:00</timestamp>
```

```
    <actualValueData>
```

```
      <dataSource>DayAheadLoadData</dataSource>
```

```
      <name>PJM RTO Total</name>
```

```
      <timestamp>2009-04-03T04:00:00-04:00</timestamp>
```

```
      <value>56091.0</value>
```

```
      <errorCodeId>0</errorCodeId>
```

```
    </actualValueData>
```

```
  ...
```

```
  <actualValueData>
```

```
    <dataSource>DayAheadLoadData</dataSource>
```

```
    <name>Mid-Atlantic Region</name>
```

```
    <timestamp>2009-04-03T04:00:00-04:00</timestamp>
```

```
    <value>21934.0</value>
```

```
    <errorCodeId>0</errorCodeId>
```

```
  </actualValueData>
```



Dispatch Lambda Rates

Updated every 15 seconds
Includes Control Zone ID, Timestamp and Rate
No getNewestDate function

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">  
  <soap:Body>  
    <ns2:getAllDispatchResponse xmlns:ns2="http://edatafeed.pjm.com/">  
      <collectionActualValueData>  
        <actualValueData>  
          <dataSource>DispatchData</dataSource>  
          <name>AE</name>  
          <timestamp>2009-04-02T16:19:43-04:00</timestamp>  
          <value>42.54</value>  
          <errorCodeId>0</errorCodeId>  
        </actualValueData>  
        <actualValueData>  
          <dataSource>DispatchData</dataSource>  
          <name>BC</name>  
          <timestamp>2009-04-02T16:19:43-04:00</timestamp>  
          <value>41.1</value>  
          <errorCodeId>0</errorCodeId>  
        </actualValueData>  
      </collectionActualValueData>  
    </ns2:getAllDispatchResponse>  
  </soap:Body>  
</soap:Envelope>
```



Area Control Error (ACE)

Updated every 15 seconds
Includes Name, Timestamp and Rate
No getNewestDate function

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">  
  <soap:Body>  
    <ns2:getAllAceResponse xmlns:ns2="http://edatafeed.pjm.com/">  
      <collectionActualValueData>  
        <actualValueData>  
          <dataSource>AceData</dataSource>  
          <name>PJM CA Ace</name>  
          <timestamp>2009-04-02T16:17:13-04:00</timestamp>  
          <value>-127.32</value>  
          <errorCodeId>0</errorCodeId>  
        </actualValueData>  
      </collectionActualValueData>  
    </ns2:getAllAceResponse>  
  </soap:Body>  
</soap:Envelope>
```

Updated every 5 minutes

Use `getNewestConstraintDate` to determine when new data becomes available

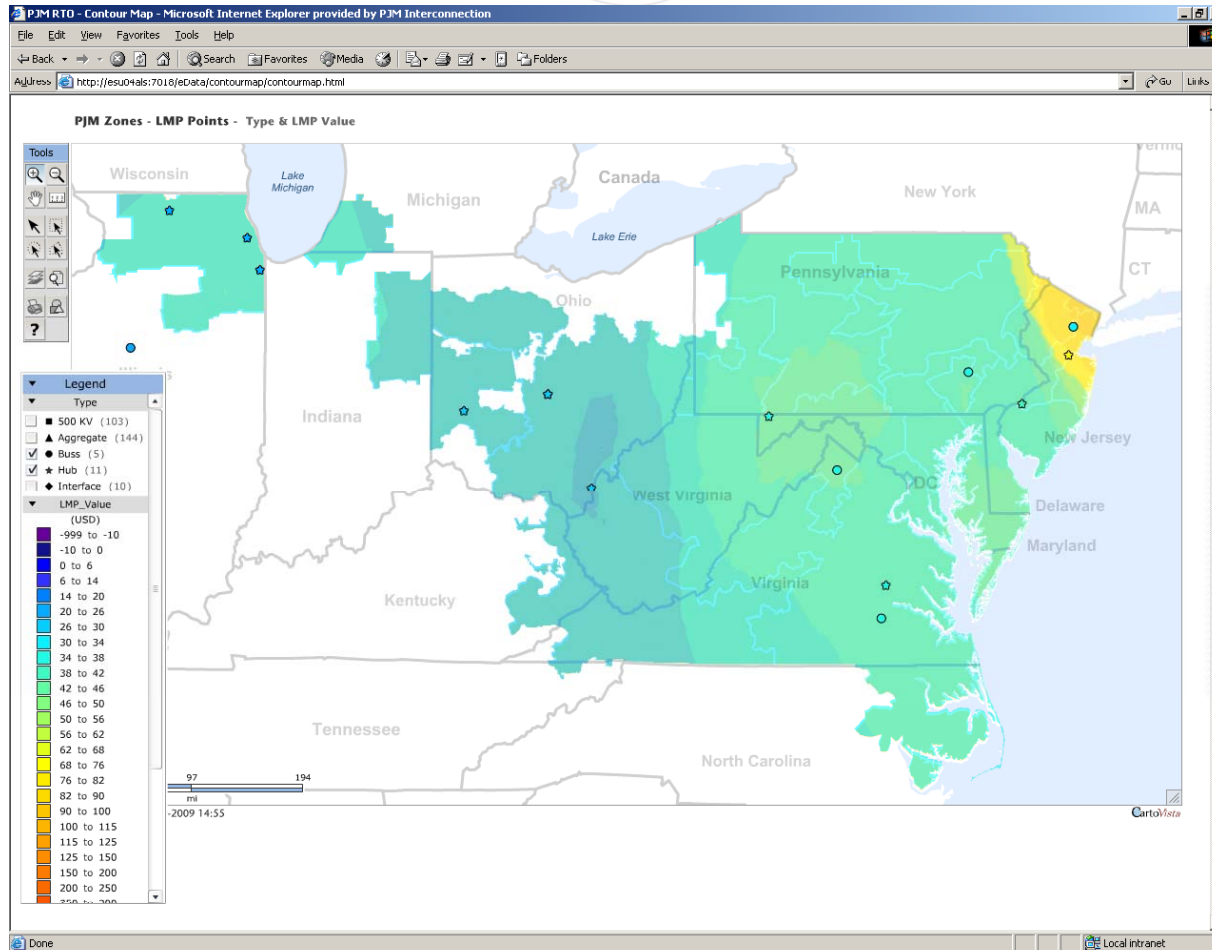
Includes Facility, Facility ID, Contingencies, Shadow Price, Controlling Action and Timestamp

```
<constraintData>
  <facilityId>1260314</facilityId>
  <facility>Monitor COMPANY LINE 345 KV SAMMIS-WYLIERID
TIE</facility>
  <contingencies>Contingency WYLIERID345 KV WYLIERID 345KV
BKR WK4 WYLIERID345 KV WYLIERID 345KV BKR WK5
WYLIERID345 KV WYLIERID 345 TIDD CB TIDD_AEP345 KV
TIDD_AEP CC CB TIDD_AEP345 KV TIDD_AEP CC2 CB
LINE 345 KV TIDD_AEP-WYLIERID</contingencies>
  <shadowPrice>46.09</shadowPrice>
  <controllingAction>COMPANY</controllingAction>
  <timestamp>2009-04-02T16:40:00-04:00</timestamp>
</constraintData>
```

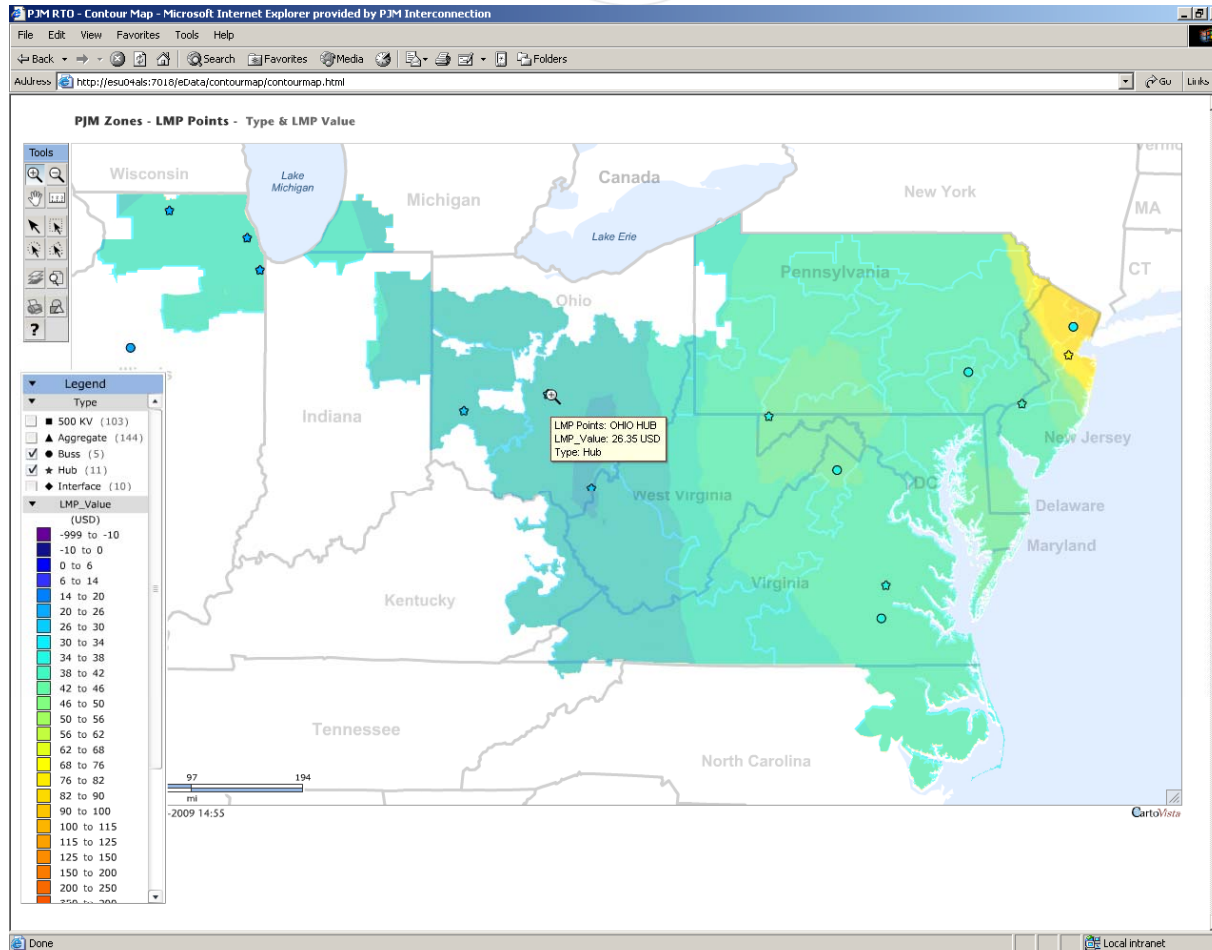
- Day Ahead and Settlement LMP data is now available for 14 days using the existing “ByDate” web services. Query with an array of valid aggregate names or types plus date, returns the LMPs for each node specified.
 - getAggregateDALmpByNameDate
 - getAggregateDALmpByTypeDate
 - getAggregateSettlementLmpByNameDate
 - getAggregateSettlementLmpByTypeDate
 - getAllAggregateDALmpByDate
 - getBusDALmpByNameDate
 - getBusDALmpByTypeDate

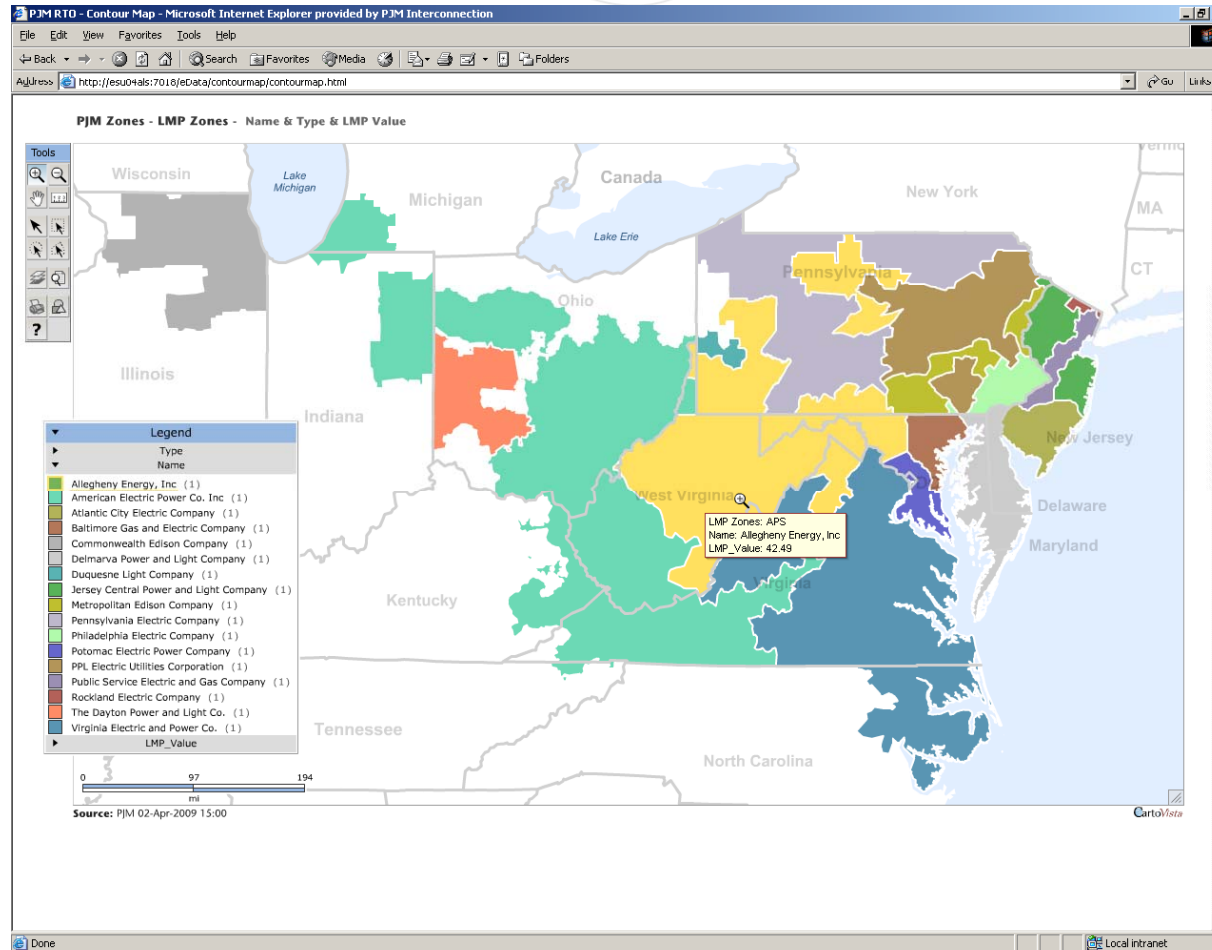
- **getNewest...Date()** functions for eDataFeed
These functions contain the date/time of the latest data update for each type available from eDataFeed:
- **getNewestForecastedLoadDate** - most recent date for forecasted load (call before `getAllForecastedTotalLoad()`)
- **getNewestRegionalInstantaneousLoadDate** - most recent date for regional instantaneous load (call before `getAllRegionalInstantaneousLoad()`)
- **getNewestZonalInstantaneousLoadDate** - most recent date for zonal instantaneous load (call before `getAllZonalInstantaneousLoad()`)
- **getNewestBusDate** - most recent update time for the bus LMP data (call before `getAllBusLmp()`, `getBusLmpByName()`, `getBusLmpByType()`)
- **getNewestAggregateDate** - most recent update time for the aggregate LMP data (call before `getAllAggregateLmp()`, `getAggregateLmpByName()`, `getAggregateLmpByType()`)
- **getNewestAggregateDALmpDate** - most recent date for aggregate day-ahead LMP data (call before `getAllAggregateDALmp()`, `getAggregateDALmpByName()`, `getAggregateDALmpByType()`)
- **getNewestBusDALmpDate** - most recent date for bus day-ahead LMP data (call before `getBusDALmpByName()`, `getBusDALmpByType()`)
- **getNewestTieFlowDate** - most recent date for tie flows
- **getNewestAggregateSettlementLmpDate** - most recent date for aggregate settlement LMP data (call before `getAllAggregateSettlementLmp()`)
- **getNewestAggregateHourlyLmpDate** - most recent date for aggregate hourly LMP data (call before `getAllAggregateHourlyLmp()`, `getAggregateHourlyLmpByName()`, `getAggregateHourlyLmpByType()`)
- **getNewestTransferInterfaceDate** - most recent date for transfer interfaces (call before `getAllTransferInterface()`)

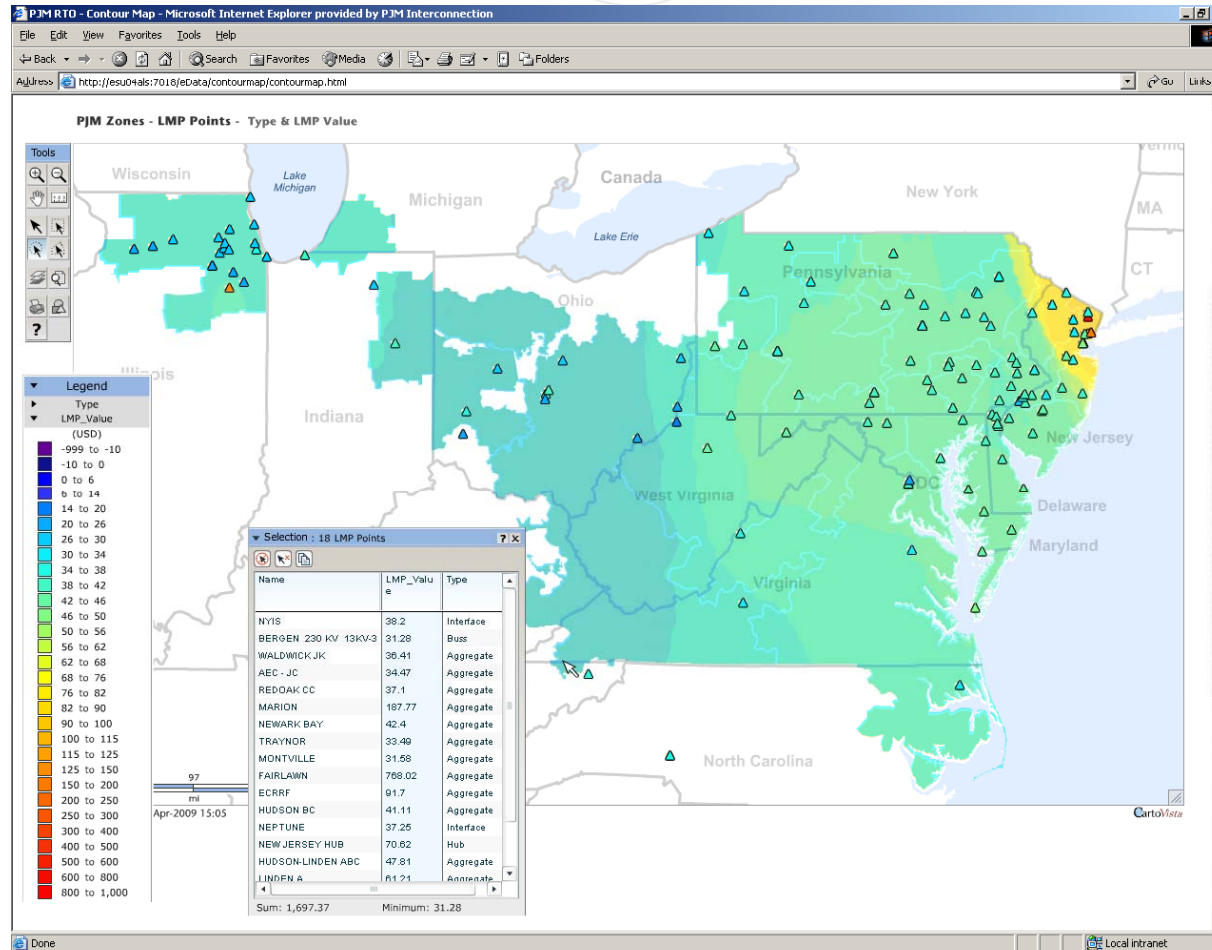
New LMP Contour Map



Pan, Zoom & 'Mouse-over'







CartoVista Help - English - Internet Explorer provided by PJM Interconnection

http://esu04als7018/eData/contourmap/Help/en/CartoVista.htm#CartoVistaHelpEN_03_002.html> > cap=CartoVista%20Help%20-%20English> > pan=2> > pot=2>>

Links Customize Links

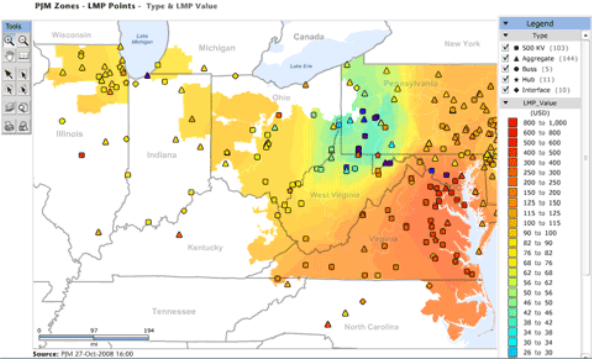
CartoVista Help - English

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CartoVista for PJM eData - Help Content



Version: 1.10

Last Update: February 03, 2009

Welcome to the CartoVista Help System. Welcome to the CartoVista User Guide.

This documentation is designed to answer all of your questions about using CartoVista for PJM.

Getting started with CartoVista for PJM eData

Done

Local intranet | Protected Mode: On 100%

- eDataFeed eTools Page:
<http://www.pjm.com/markets-and-operations/etools/edatafeed.aspx>
- User Documentation
- FAQ
- Sample Clients
 - Java
 - .Net
- eDataFeed Mailing List Subscription

- Enhancements are only available on eDataFeed 5.0
- Went live in Dec 2008 with new performance monitoring tools
- Constraints and new LMP Contour Map are available in the Training Environment for testing/comments. Will be moved to Production on May 5, 2009
- Support for old eDataFeed will be limited after May 29th 2009, but Users who are unable to convert to eDataFeed 5.0 will have a 2-3 month grace period* to access the old eDataFeed before the servers are retired on Sept 30th

* Please contact the PJM Hotline (610-666-8980) if you wish to continue using the old eDataFeed, and let PJM know when you expect to complete your upgrade.

Open to all PJM Members Using eData and eDataFeed

- Registration on PJM.com

<http://www.pjm.com/committees-and-groups/stakeholder-meetings/stakeholder-groups/edata.aspx>

- First meeting via WebEx on May 26, 2009 at 10:00 (EPT)

- QUESTIONS?

- Please contact the eDataFeed Team if you have any additional questions.

edatafeed_team@pjm.com