

# RC West Settlements Working Group

Jeremy Malekos Manager Market Settlement Design and Configuration

June 19, 2019

### Agenda

- Overview of settlement process
- Overview of charge codes
- Overview of the MRI-S interface
  - UI
  - API
- Data Validation
  - Timeline overview
  - Execution details
    - Customer expectations
    - Scenarios
- RC and HANA Services production timeline
- Q&A



#### RC Services Settlement Overview

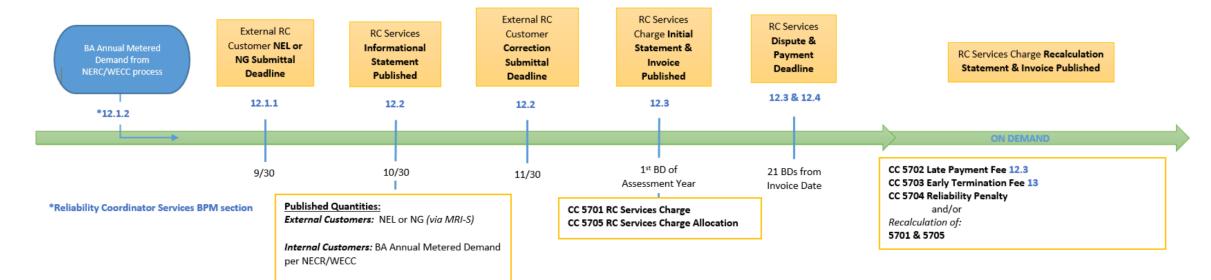
Not Disputable

NERC/WECC processing

1/31/service year

Quantity corrections for external customers through upload, for internal through

Upload TD Period = 1/1/service year to



#### Timeline Legend

#### YR 1 Example:

1 time manual PTB of 2019 assessment year charges Submittal/Processing Deadlines = 2019 Assessment/Service Year = 2020 Base Data (MD, NEL, NG) = 2018

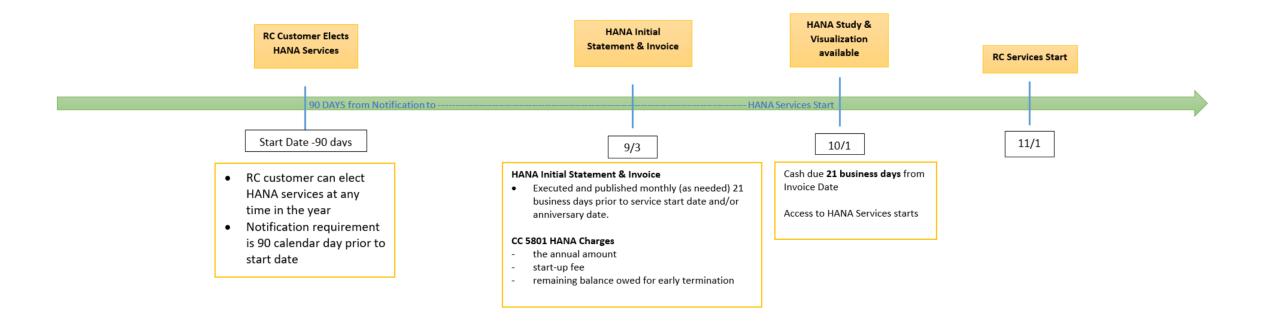
#### YR 2 Example:

Submittal/Processing Deadline = 2020 Assessment/Service Year = 2021 Base Data (MD, NEL, NG) = 2019



### HANA Services Invoicing Overview

- 3-year initial commitment, 12 months written notice to exit on anniversary date
- HANA is a monthly invoice that assesses annual fees
- Statement & Invoice are published the same day
- Additional Initial statements and invoices published as needed





#### Charge Codes Overview – 5701 & 5705

#### 5701 RC Services Charge

- Calculates annual RC Services charge to external customers (outside CAISO footprint)
  - Charged to BAs with Load, TOPs within BAAs (with or without load), gen-only BAAs
  - RC Charge = (RC Customer's submitted NEL or NG)\* Annual RC Services Rate
    - If RC Customer does not submit data, Settlements will calculate the RC charge using the customer's default NEL or Installed Capacity value per contract

#### 5705 RC Services Charge Allocation (replaces Peak CC 6496)

- Allocates annual RC Services charge to internal customers (entities within the CAISO BAA)
  - ISO passes through its share of the RC Charges to SCs within the CAISO BAA that serve load and to TOPs within the BAA
    - TOPs that have no NERC/WECC Metered Demand will receive the minimum charge (\$5,000)
  - RC Charge = (entity's share of the total NERC/WECC Metered Demand for CAISO BAA) \* Annual RC Services Rate
- Initial Statement & Invoice published on the first business day of each year
- Not disputable
- Payment is due within 21 business days of invoice date
- Federal entities may choose to make monthly payments of 1/12 of annual invoiced amount
- Invoice issued on 1/2/20 will include 2020 RC charges based on 2018 NEL/NG and prorated 2019 charges based on 2017 NEL/NG



### Charge Codes Overview – Late Payment Penalty (5702) & Default (5701)

#### 5702 Late Payment Penalty

- Late payment penalty will be assessed if payment for RC Services invoice is not received by the due date
- One-time \$1,000 charge will appear on supplemental RC Services statement & invoice (Recalc)
- Federal entities opting for monthly payments of 1/12 of annual invoiced amount are subject to the late payment penalty for each instance of failing to pay by the due date
- Due date is 21 business days from invoice date

#### 5701 Default on RC Charges

- Unpaid amounts by defaulting customer will be re-allocated to all other customers in proportion to their original
   5701 invoice amount (Recalc)
- If defaulter pays back the amount in full or partially
  - Repayment amount will be reflected on the next Initial invoice (following year)



### Charge Codes Overview – 5703 & 5704

#### 5703 RC Services Early Termination Fee

- If RC Customer terminates services before the 18-month initial enrollment period or provides less than 12-month notice in subsequent years
- One-time charge invoiced on supplemental invoice (Recalc)
- Due date is 21 business days from invoice date

#### 5704 RC Services Reliability Penalty Allocation

Calculation accounts for any reliability-related penalties assessed by FERC, NERC, WECC against the CAISO



#### Charge Codes Overview – 5801

#### 5801 HANA Charges

- The CAISO will also offer web-based Hosted Advanced Network Applications (HANA) services to its RC Customers
- Initial 3 year commitment, after which the RC Customer may take HANA services for additional one-year terms
- The CAISO will charge RC Customers that elect HANA services
  - The annual cost for the ongoing software license fee
  - A one-time Set Up fee amortized over the initial 3-year minimum commitment period; and
  - Annual Administrative fee for CAISO support of the HANA services
- RC Customer will be invoiced for HANA services 21 business days prior to when the services commence / anniversary date
- Due date is 21 business days from invoice date
- There is no Recalc for HANA
- If RC Customer adds additional licenses mid-year, Settlements will publish supplemental statement and invoice
- Early Termination Fee will be assessed if the RC Customer terminates the agreement before the expiration date



# Questions



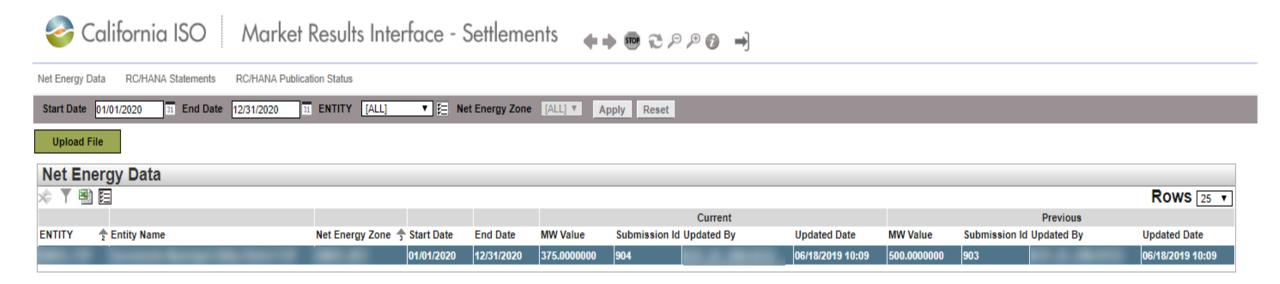


#### Overview of MRI-S

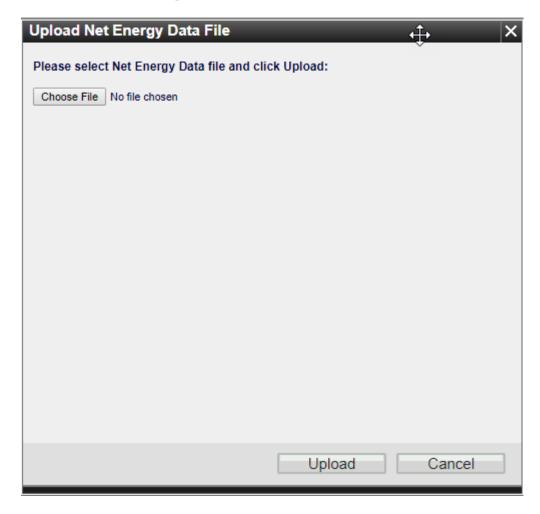
- UI Demo
- API screen shots



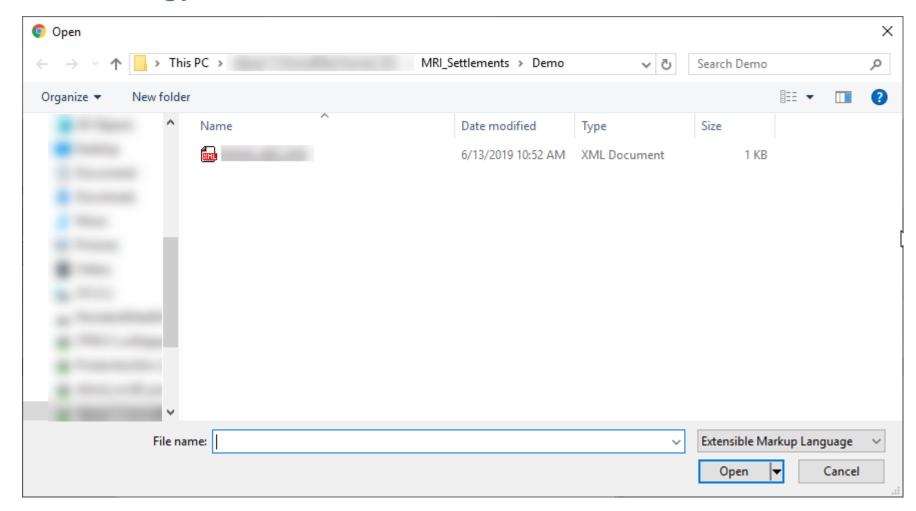
### **Reliability Coordination**



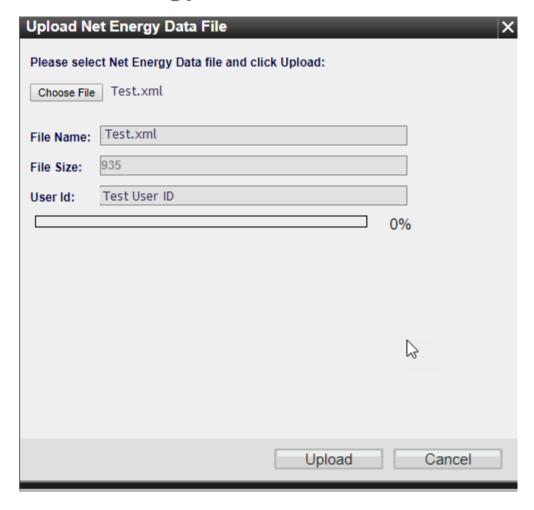


















#### **RC/HANA Statements**

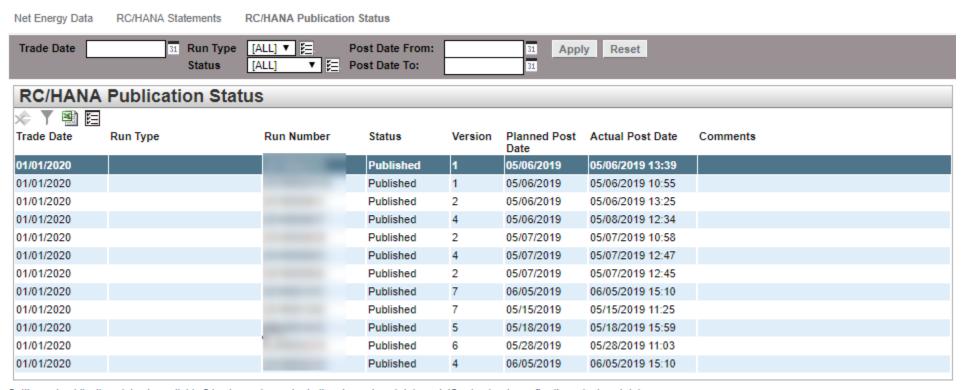




Settlement files are available for 45 days from date of publication.



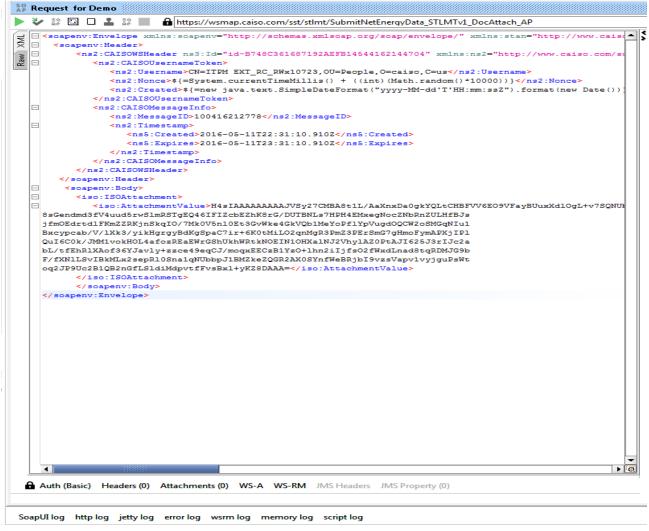
#### **RC/HANA Publication Status**



Settlement publication status is available 2 business days prior to the planned post date and 45 calendar days after the actual post date.



### Submit Net Energy Data – API – DocAttach request Sample





### Submit Net Energy Data – API – Non-DocAttach request Sample

```
<p
                    <m:MessageHeader>
                        <m:TimeDate>2001-12-17T09:30:47Z</m:TimeDate>
                        <m:Source>String</m:Source>
                        <m:Version>v20181001</m:Version>
                    </m:MessageHeader>
                    <m:MessagePayload>
                        <m:NetEnergyZone>
                            <m:mRID>NEZ</m:mRID>
                            <m:NetEnergy>
                                <m:netGeneration>
                                     <m:multiplier>M</m:multiplier>
                                     <m:unit>Wh</m:unit>
                                     <m:value>500</m:value>
                                </m:netGeneration>
                                 <m:tradePeriod>
                                     <m:end>2021-01-01T08:00:00Z</m:end>
                                     <m:start>2020-01-01T08:00:00Z</m:start>
                                </m:tradePeriod>
                            </m:NetEnergy>
                        </m:NetEnergyZone>
                    </m:MessagePayload>
                </m:NetEnergyData>
            </soapenv:Body>
       </soapenv:Envelope>
```



### Submit Net Energy Data – API – Response Sample





### MAP Stage URLs

- Doc Attach:
  - https://wsmap.caiso.com/sst/stlmt/SubmitNetEnergyData\_STLMTv1\_Doc Attach\_AP
- Non-Doc Attach:
- https://wsmap.caiso.com/sst/stlmt/SubmitNetEnergyData\_STLMTv1\_AP



#### Data validation timeline overview

- Settlements Data Validation
  - 7/9 Map-stage opens, verify access and connectivity and start uploading 2018 NEL/NG in MWh
  - 7/10 ISO to publish sample informational statement on MRI-S with mock up data
  - 7/16 NEL/NG data upload deadline submit using Trade Date 1/1/2020
- RC Settlement Scenarios
  - 7/23 RC West to publish Informational Statement which lists volumes provided in MRI-S for review prior to invoicing
  - 7/24 7/25: RC customer timeline to review and validate volumes in Informational Statement and resubmit in MRI-S
  - 7/30 RC West publish initial statement and invoice for RC charges
  - Week of 8/5 RC West publish recalc statement and invoice based on scenarios
  - HANA Statement and Invoice
    - 7/25 RC West publish Hana Services Initial for Validation
    - Week of 7/29 Reserve for additional Hana Services scenarios



### Data Validation Execution Details (7/919-8/7/19)

Monday	Tuesday	Wednesday	Thursday	Friday
8	9 Map Stage Environment Opens	ISO: Publish sample RC Info Stmt to test connectivity	RC Customers: Start MRI-S uploads	12
15	RC Customers: MRI-S upload Deadline	17	18	19
22	ISO: RC Info Stmt Publication	RC Customers: Review RC Info Stmt	RC Customers: Review Info Stmt & re-submit deadline ISO: Publish HANA Stmt and Invoice	RC Customers: HANA Stmt & Invoice Validation Start
29	30 ISO: Publish RC Initial Stmt and Invoice	RC Customers: RC Initial Stmt & Invoice Validation Start	ISO: Publish additional HANA scenario Stmt & Invoice	RC Customers: HANA additional scenario Stmt & Invoice Validation Start
5	ISO: Publish RC Recalc Stmt & Invoice for LPP	7 RC Customers: RC Recalc Stmt & Invoice Validation Start	8	9

Key Dates

RC Customers ACTION

ISO ACTION

HANA scenario

RC scenario



#### RC Services Production Timeline

9/30/19	RC Customer deadline to submit 2018 NEL/NG MWh in MRI-S
10/30/19	RC West releases Information Statement which lists volumes provided in MRI-S for review prior to invoicing
12/2/19	RC Customer deadline to validate volumes on Information Statement and re-submit if necessary
1/2/20	RC West bills for 2019 and 2020 RC Charges  » The 2019 RC charges will be prorated and based on 2017 NEL/NG MWh  » The 2020 RC charges will be based on 2018 NEL/NG MWh  » Charges will be on one invoice available in MRI-S
1/31/20	RC Customer payment due date  » Federal entity payments are due monthly in 1/12 increments



#### HANA Services Production Timeline

- HANA invoices go out 21 business days prior to Customer's official HANA start date.
  - Initial HANA services being offered 10/1/19 with shadow opportunity 09/01/19 09/30/19 (only)
  - Annual recurring invoices will be sent out 21 business days prior to RC Customer's anniversary date
  - Invoices will be available in MRI-S
  - Payments are due 21 business days from invoice date
- Supplemental invoices will go out during the year if RC Customer elects to purchase additional subscriptions.
  - Charges will be prorated to co-term to original anniversary date.



# Questions





# Thank You

