

Environmental Redispatch

Version ~~23~~

Effective: ~~05/07/013~~/11

BPA has issued an Interim [final Record of Decision](#) (ROD) on Environmental Redispatch and Negative Pricing Policy. BPA takes this action as a last resort, after exhausting other available tools. The agency's intent is to use Environmental Redispatch (ER) only for the time period when it is absolutely necessary. The Environmental Redispatch Business Practice is immediately effective and terminates March 30, 2012.

Purpose of Environmental Redispatch

Environmental Redispatch is designed to ensure the FCRPS is operated consistently with Clean Water Act (CWA) and Endangered Species Act (ESA) obligations, as well as BPA's obligations under the Pacific Northwest Electric Power Planning and Conservation Act (NWPAA), under specific hydro and load conditions, and after all practicable mitigating measures have been implemented, as identified in the ROD on Environmental Redispatch and Negative Pricing Policy. When these conditions exist, BPA will issue ER orders to generators and replace scheduled generation in BPA's Balancing Authority Area with Federal hydropower at no cost.

Generators Subject to Environmental Redispatch

All non-federal generators in BPA's Balancing Authority Area are subject to ER.

Establishing Environmental Redispatch Minimum Generation Levels

BPA has posted the [Establishing Minimum Generation Levels for Environmental Redispatch Business Practice](#) for establishing minimum generation levels for ER.

Order of BPA Actions

BPA will first use voluntary Environmental Displacement (ED) to reduce generation in the balancing authority area. In the hour just prior to implementing ER, BPA will use ED to reduce non-federal generators subject to ER to their minimum generation levels for the next operating hour. When ER is put into effect during an operating hour, non-VER generators subject to ER that are operating above

their minimum generating levels for ER are subject to ER first and then, if needed, VERs will be subject to ER as described below.

Environmental Displacement Prior to Environmental Redispatch

1. Prior to implementing ER, BPA Power Services Trading Floor will contact non-federal generators and will make advance offers to displace non-federal generation with Federal hydropower.
2. BPA Power Services is also offering to make advance arrangements with Transmission Customers for waiving In-Kind Real Power Loss Return obligations to reduce spill. Once the Transmission Customer has requested a waiver and made arrangements with the BPA Power Services Trading Floor, BPA Power Real-Time will contact the Transmission Customer prior to implementing ER to request the Transmission Customer reduce the Transmission Loss Returns on their e-Tag.
3. Customers interested in making advance arrangements may initiate contact with the BPA Power Services Trading Floor.
Trading Floor Contacts:

Day-Ahead and Real-Time Manager: (503) 230-3183

Real-Time Power Marketing Desk: (503) 230-3650 or (503) 230-3651 RTMarketers@bpa.gov

Trading Floor: (503) 230-5610 or (503) 230-5780 (For arrangements to waive In-Kind Real Power Losses)

Curtailement of E-Tags

All generators are subject to curtailment of e-Tags at all times for system reliability and other reasons as described in the Curtailment and Redispatch Business Practice. If the curtailment reduces the sum of remaining e-Tags originating at the generator to a level that is less than the ER minimum generation level then the generator must fully comply with the curtailment and reduce generation regardless of the established ER minimum generation level.

Notification that Environmental Redispatch is Imminent

1. Transmission Dispatch will make a posting with the category of 'Curtailment' on the Notices page of BPA Transmission Services' Open Access Same-Time Information System (OASIS) that an ER is imminent. The posting will include the expected duration of the ER event.
2. VERs should continue to schedule their forecast power output, including scheduled loss returns for the hour when an ER event is imminent. Continued accurate scheduling when an ER event is imminent and during an ER event is critical for the success of Environmental Redispatch efforts. If ER is implemented, all under-generation relative to schedules will be provided by Federal hydropower.

Allocation of Environmental Redispatch Quantity

1. BPA Hydro Operations will determine the need to implement ER and will determine the amount of generation reduction required for each hour during the event. When ER is implemented, schedules from the generators will remain intact, but generation must be reduced.
2. In the hour prior to implementing ER for VERs Power Services Loads Desk will contact non-VER generators that are operating above their minimum generation level by phone and will request that the generator contact the Real-Time Power Marketing Desk to arrange an Environmental Displacement transaction that will bring the next hour schedule for the generator to the established minimum generation level. Generators that do not make arrangements for the next hour when requested to do so will be subject to a Dispatch Order from Transmission Services to reduce generation when ER is implemented.
3. If reductions from non-VER generators are insufficient to provide the required reductions, then VERs will receive a pro-rata allocation of the remaining required reduction. The pro-rata reduction for each VER is calculated by $(\text{Sum of Schedules for the generator}) / (\text{Sum of Schedules for the group}) * \text{required reduction}$.

Notification that Environmental Redispatch is in Effect

1. Transmission Dispatch will make a posting with the category of 'Curtailment' on the Notices page of BPA Transmission Services' Open Access Same-Time Information System (OASIS) that an ER is in effect.

2. BPA will post information on ER on the publicly-accessible Transmission Wind Operations web site with near-real time updates.
 - a. The "BPA Balancing Authority Total Wind Generation & Wind Basepoint" link will provide information on the total amount of ER reduction.
 - b. The "BPA Wind State" link will provide information on the ER state.
3. During an ER event, the imbalance signals to Customers self-supplying balancing reserves under the Customer Supplied Generation Imbalance (CSGI) Pilot will be offset by the amount of the CSGI Customer's share of the ER plus the amount of regulation and load following service being provided by BPA to the CSGI Customer. The CSGI Customer will control its resources down so the total error for the Customer including the ER, regulation and load following offset is less than or equal to zero.
4. Non-VER generators should already be displaced in advance and not generating or be at minimum generation levels when ER is implemented. However, any non-VER generator operating above established minimum generation levels is subject to a Dispatch Order from Transmission Operations to reduce generation and is subject to Failure to Comply Penalty if the generator fails to reduce generation within 10 minutes to the limit in the Dispatch Order.
 - a. Such Dispatch Order will be communicated via a phone call to the generator operator.
5. VERs will receive notification that ER is in effect via the same electronic signal they currently receive for a DSO 216 Limit Level 1 Alarm. Generators receiving this signal via ICCP or a Remote Telemetry Unit (RTU) will receive the ER alarm and generation Limit Target directly and generators that rely on iCRS Generation Advisor will receive the alarm and Limit Target via that application. A message of "ENVIRON REDISPATCH" will be indicated on iCRS Generation Advisor with the alarm that an Environmental Redispatch is in effect. VERs must reduce generation to within 2 MW of their Limit Target which will be at or below the generator's schedule for that hour. VERs that do not reduce output to within 2MW of the generation Limit Target within 10 minutes are subject to the Failure to Comply Penalty.

Notification that an Environmental Redispatch Event has Ended

1. If system conditions improve to the point where ER for VERs is no longer required, the alarm status will revert to normal functionality for DSO 216 limits. This information will be visible on the publicly accessible Transmission Wind Operations website.
2. When system conditions improve to the point where ER is no longer required for non-VERs, Transmission Dispatch will make a posting with the category of "Curtailment" on the Notices page of BPA Transmission Services' Open Access Same-Time Information System (OASIS) that an ER is over. Transmission Dispatch will also contact by phone non-VERs that had been issued a Dispatch Order to reduce generation and advise them to return generation to schedule.

Adjustments to Energy and Generation Imbalance Accounting During an Environmental Redispatch Event

1. For the hours when ER is in effect, ~~the Generation Imbalance accounting is disabled for all Generating Customers.~~ Differences between scheduled and actual energy delivered by a generator ~~given a generation limit or Dispatch Order to reduce generation~~ will not be included in the Generation Imbalance Service account for the generator. The Energy Imbalance accounts for all loads ~~served by the affected generation~~ will also be ~~adjusted disabled~~ for those hours.
2. Hours will not be included in the Generation Imbalance account for a non-VER generator when the generator reduces generation to minimum generation level in response to a request from Power Services and the generator's schedule was served by Federal hydropower. The Energy Imbalance accounts for loads served by the affected generation will also be adjusted for those hours.

Loss Returns and Obligations During an ER Event

BPA will provide power for redispatched schedules, including scheduled loss returns, during an ER event. Generating Customers are responsible for loss return obligation incurred for the schedules submitted during an ER event.

Generating Customers' Operating Reserve Obligation During an ER Event

Generating Customers are responsible for the Operating Reserve Obligation for the schedules they submit during an ER event.

Adjustments to NT Base Charge Billing Factor for Displaced or Redispatched Declared Customer Served Load

When ER is imminent or in effect, and NT Customers that have Declared Customer Served Load reduce generation in response to requests from Power Services or a Dispatch Order from Transmission Services, then the NT Customer will continue to receive an adjustment to their NT base charge as if the generator was serving the load.

Additional Information:

Policy References

- Administrator's Record of Decision ([ROD](#)) on Environmental Redispatch and Negative Pricing Policy

Related Business Practices

- [Energy Imbalance Service](#)
- [Establishing Minimum Generation Levels for Environmental Redispatch](#)
- [Failure to Comply](#)
- [Generation Imbalance Service](#)
- [Operating Reserves](#)
- [Real Power Loss Return](#)
- [Redispatch and Curtailment](#)

Version History

There is no previous version of this business practice.

Out for Comment/Redline/Response to Customer Comments

- [Environmental Redispatch, V1, Redline](#)
- [Environmental Redispatch, V1, Response to Customer Comments](#)