



Distributed Energy Resource (DER) Data Dictionary and Field Reference Guide

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How to Use This Dictionary

For each field, this guide provides:

- Field Name
- Description
- Example: Value
- Field Owner
- Source
- Applicable Participation Models
- Purpose
- Required Status
- Related Fields
- Common Validation Issues
- Submission Notes

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DER INFORMATION

DER Name

Description: A unique name for each DER

Example: Battery Site A

Field Owner: Participant

Source: Participant submission

Participation Models: All

Purpose: Identifies the DER in registrations, reporting, and maintenance activities

Required Status: Required

Related Fields:

- DER Identifier
- Participant DER Identifier

Common Validation Issues:

- Duplicate names
- Blank values
- Special characters not permitted

Submission Notes: Use a meaningful and consistent naming convention

DER Identifier

Description: Unique identifier associated with the DER

Example: 000123

Field Owner: ISO

Source: Customer Asset Management System (CAMS)

Participation Models: All

Purpose: Provides a unique reference to the DER

Required Status: Required

Related Fields:

- DER Name
- Participant DER Identifier

Common Validation Issues:

- None (this field is not validated)

Submission Notes: None

Participant DER Identifier

Description: Optional participant provided unique identifier associated with the DER

Example: DER000123

Field Owner: Participant

Source: Participant

Participation Models: All

Purpose: Provides an optional link between a participant's system of record and CAMS

Required Status: Not Required

Related Fields:

- DER Name
- DER Identifier

Common Validation Issues:

- None (this field is not validated)

Submission Notes: Identifiers should remain stable whenever possible

DER Capability Flags

Description: Identifies the capabilities associated with the DER

Examples: Has Controllable Load (Y/N), Has Non-controllable Load (Y/N), Has Controllable Generation (Y/N), Has Non-controllable Generation (Y/N), and/or Has Electric Storage (Y/N)

Field Owner: Participant

Source: Participant submission

Participation Models: All

Purpose: Supports market qualification and reporting

Required Status: Required

Related Fields:

- Participation Model
- DER Identifier

Common Validation Issues:

- Incorrect capability classification

DER LOCATION INFORMATION

Retail Account ID

Description: Account number the distribution company assigns to the DER

Example: 5107-34567

Field Owner: Distribution company

Source: Retail bill and/or distribution company records

Participation Models: All

Purpose: Defines metering and operational location

Required Status: Conditional

Related Fields:

- Metering Location
- Host Utility

Pnode Name(ID)

Description: The pnode associated with the DER

Example: LD.ASHLAND 34.5 (4390)

Field Owner: ISO-NE

Source: System generated based on GPS proximity, subject to validation by Host Utility

Participation Models: All

Purpose: Determines the correct DRR aggregation zone for the DER, or, in the case with a DER with > 5MW of generation or demand response capability, is the pricing location for the DERA

Required Status: Required

Related Fields:

- Host Utility
- Address
- Metering Domain
- Market Asset

Common Validation Issues: Pnode of DER is not within the DRR Aggregation Zone associated with the aggregation

AGGREGATION INFORMATION

Aggregation Identifier

Description: Unique identifier associated with a DERA. For aggregations with a single market asset, it is the Asset ID. For aggregations with more than one market asset, it is the Master Asset ID.

Example: 567890

Field Owner: Participant / ISO-NE

Source: CAMS assigns this during the registration process

Participation Models: All DERA Models

Purpose: Links individual DERs to an aggregation

Required Status: Required

Related Fields:

- Aggregation Name
- Participation Model

Common Validation Issues:

- None, as this is system assigned

Visual Examples: DERs to Market Asset(s)



Battery Site A
DER ID 000123

Battery Site B
DER ID 000124

→ **ATRR Aggregation**
ASSET ID 345678 →

N/A
(no master asset so the ATRR market asset ID represents the DERA)

Battery Site C
DER ID 000125

This example shows how multiple individual DER records can be associated with one aggregation, which is then represented in ISO-NE systems by one or more market assets.

Participation Model

Description: The market representation under which the DERA participates

Example: Settlement Only DER Aggregation with generation only

Field Owner: Participant

Source: Participant submission

Participation Models: All

Purpose: Determines registration and operational requirements

Required Status: Required

Related Fields:

- Aggregation Identifier
- Market Asset Type

Common Validation Issues:

- Wrong value
- Does not match worksheet tab

Submission Notes: Always verify the selected worksheet matches the participation model

DER AGGREGATION LOCATION INFORMATION

Host Utility

Description: Identifies the utility that is responsible for the metering domain the aggregation is located within

Example: Anytown Energysource

Field Owner: Host Utility

Source: Utility records

Participation Models: All except ATRR

Purpose: Supports registration, meter reading, and operational coordination

Required Status: Required

Related Fields:

- Metering Domain
- Retail Delivery Point

Common Validation Issues:

- Invalid Host Utility
- Mismatch with account information

DERA Pricing Location

Description: Either the DRR aggregation zone associated with the resource, or, if the aggregation contains 5 MW of generation or demand response at a single pricing node, the load node associated with the DERA.

Example: Zone 7602

Field Owner: ISO-NE (DER level) / Participant (aggregation level)

Source: User input during registration

Participation Models: All

Purpose: Determines market representation and settlement

Required Status: Required

Related Fields:

- Host Utility
- Market Asset

Common Validation Issues: Pnode of DER is not within the DRR aggregation zone associated with the aggregation

Metering Domain

Description: The metering domain associated with the resource

Example: Metering Domain 1414

Field Owner: ISO-NE (DER level) / Participant (aggregation level)

Source: ISO systems

Participation Models: Most aggregation models

Purpose: Determines market representation and settlement

Required Status: Conditional

Related Fields:

- Host Utility
- Market Asset

Common Validation Issues: Phnode of DER is not within the DRR aggregation zone associated with the aggregation

Visual Example: Metering Flow

DER Battery Site A	→	Meter Location RDP-45891	→	Assigned Meter Reader Anytown Energysource	→	ISO-NE Settlement Data
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Metering data supports settlement, validation, and audit activities. The assigned Meter Reader provides the applicable metering data through the established settlement process. The Host Utility is commonly also the Assigned Meter Reader for DERs.

METERING INFORMATION

Assigned Meter Reader

Description: Entity responsible for meter data submissions

Example: Host Utility

Field Owner: Participant

Source: Registration records

Participation Models: All except ATRR

Purpose: Supports settlement and reporting

Required Status: Required

Related Fields:

- Meter Domain
- Metering Location
- Retail Account ID

Common Validation Issues: Assigned meter reader not identified

Metering Location Type

Description: Location at which settlement measurements occur, either a Retail Delivery Point (RDP) or, if there is no retail load included in the DER, a Point-of-Interconnection (POI)

Example: RDP

Field Owner: Distribution Company

Source: Registration submission

Participation Models: All

Purpose: Determines how settlement quantities are measured

Required Status: Required

Related Fields:

- Retail Account ID
- Assigned Meter Reader

Common Validation Issues:

- POI entered when DER includes retail load

DERA TELEMETRY INFORMATION

Telemetry Required

Description: Indicates whether telemetry is required based on the chosen participation model

Example: Yes

Field Owner: ISO-NE

Source: Participation model requirements

Participation Models: Dispatchable models

Purpose: Determines operational communication requirements

Required Status: Conditional

Related Fields:

- Participation Model
- Telemetry Provider
- Dispatch Capability

Telemetry Provider

Description: Entity responsible for telemetry communications

Example: Designated Entity

Field Owner: Participant

Source: Registration information

Participation Models: Telemetry-enabled models

Purpose: Supports operational coordination

Required Status: Conditional

Dispatch Capability

Description: Indicates whether the resource can receive operational instructions

Example: Enabled

Field Owner: Participant

Source: Registration records

Participation Models: Dispatchable models

Purpose: Supports real-time operations

Required Status: Conditional

Visual Example: Telemetry Flow

DER Aggregation DERA-BSF-001	→	Aggregator’s Designated Entity Anytown Grid Services	→	ISO-NE Real-Time Operational Data
ISO-NE → Aggregator: Electronic dispatch instructions, when applicable				

Telemetry is separate from metering. For participation models that require telemetry, the aggregator or their designated entity provides operational data and manages the aggregation’s response to applicable ISO-NE dispatch instructions.

MARKET INFORMATION

Market/Master Asset ID

Description: Unique market identifier assigned to the registered asset

Example: 12345

Field Owner: ISO-NE

Source: ISO systems

Participation Models: All

Purpose: Represents the asset within ISO systems

Required Status: Assigned by ISO-NE

Related Fields:

- Participation Model
- Registration Status

Common Validation Issues: Participant attempts to modify system-assigned value

Registration Status

Description: Current registration state of the resource

Example: Commercial Operation

Field Owner: ISO-NE

Source: Registration systems

Participation Models: All

Purpose: Tracks lifecycle status.

Required Status: System-assigned

Common Validation Issues: Outdated status references

Visual Example: Who Typically Provides Information?

• Participant / Aggregator Participation model Host Participant • Metering domain • DRR Aggregation Zone or Pnode • DER Name • DER Address DER Capability Flags • Participant DER ID (if any) • Telemetry information (if required) Meter Location Type • Retail Account ID • DER Interconnection Agreement (if required) • Retail Bill (if required)	Host Utility / Assigned Meter Reader Verify metering domain Verify pnode Verify Retail Account ID Meter installed and operational flag Meter data for settlement	ISO-NE Master Asset ID (If Any) Market asset ID(s) Registration status System-assigned identifiers DER ID DER Pnode DER Standardized Address
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Ownership may vary by field and process. Confirm the authoritative source and responsibility identified for each field before submitting or updating data.

Field Ownership Quick Reference

Information Category	Typical Owner
DER Information	Participant
Facility Information	Participant
Aggregation Information	Participant / ISO
Host Utility Information	Host Utility
Market Asset Information	ISO-NE
Metering Information	Assigned Meter Reader
Telemetry Information	Aggregator or their Designated Entity
Registration Status	ISO-NE

Common Validation Errors

Issue	Likely Cause
Missing Required Field	Required value left blank
Invalid Code Value	Value not supported
Field Length Exceeded	Too many characters entered
Participation Model Mismatch	Data entered on wrong worksheet
Metering Location Conflict	Location inconsistent with registration configuration
Duplicate Record	Asset or DER submitted more than once