

| EU Implementing Act Regulation AFIR EU2023/1804 | | TABLE A | | | | | | | |
|---|---|--------------|---------------------|---|------------|--|--|---|---|
| # | Type of alternative fuels infrastructure | Type of data | Data category | Data type | Data level | Description | Data format | OPCI 2.3.0 | Remarks |
| 1 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Legal name of the recharging or refuelling point operator or owner | Station | Legal name of the operator responsible for the management and operation of the publicly accessible recharging and refuelling points for alternative fuels, or, in accordance with the arrangements between them, the owner of those points, which provides a recharging or refuelling service to end users, including in the name and on behalf of a mobility service provider. | Discrete value (string/text) | Location Class - Operator (optional) | Include legal identifier to business details? |
| 2 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Commercial name of the recharging or refuelling point operator or owner | Station | Commercial name of the recharging or refuelling point operator or, in accordance with the arrangements between them, the owner of those points as it is presented to the public when offering recharging or refuelling services. | Discrete value (string/text) | Location Class - Operator (optional) | It is not possible to provide both a legal and a commercial name for business details |
| 3 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Number of recharging or refuelling points | Station | Number of recharging points or refuelling points that can be used at the same time in a recharging or refuelling station. An electric recharging point may have one or more connectors, however only one can be used at the same time. | Numeric value (number) | Location Class - Size of the list of EVSE | In 2.3.0 we do not have a Charging Station layer |
| 4 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Service support | Station | Information regarding the presence of physical persons attending the recharging or refuelling station. | Discrete value (string/text) | Location Class - Facilities | In 2.3.0 a Assistance value can be added to the Facility OpenEnum |
| 5 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Helpdesk telephone | Station | Telephone number of the helpdesk, managed by the recharging or refuelling point operator or owner, that is readable in the recharging station. | Format based on notation applicable to Union telephone numbers containing at least the following elements: Country code <space> complete number including the regional code (if there is one) in one separate block with the starting zero. Extension numbers shall be added with a dash directly after the complete number. No other dashes, spaces or brackets may be used in the helpdesk telephone number. | Location Class - help_phone | |
| 6 | Recharging and refuelling infrastructure of alternative fuels | Static | General information | Facilities offering associated services to the user | Station | The recharging or refuelling station has in its immediate surrounding area facilities offering associated services to customers. The following facilities and services shall be reported (yes/no): ·Roofed recharging or refuelling parking location. ·Illuminated recharging or refuelling parking location. ·Catering service (e.g., food, beverage) ·Bathrooms. ·Resting facilities. ·Other (expressed as free text). | Discrete value (string/text) in list format | Location Class - Facility (optional) EVSE Class - Parking (Optional) | Bathrooms are not explicitly stated Value can be added to the Facility OpenEnum |

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| 7 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Global Navigation Satellite System (GNSS) geographic location information | Station | Latitude and longitude coordinates of the recharging or refuelling station. | Latitude and Longitude coordinated in WGS84 decimal standard. | Location Class - Coordinates EVSE - Coordinates | |
| 8 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Additional geographic location information | Station | Additional concrete information that may be relevant to reach the recharging or refuelling station in certain situations, such as parking level, parking lot, etc. | Discrete/numeric value (combination of string/text and numeric) | EVSE - floor_level - physical_reference - directions | |
| 9 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Country | Station | Name of the Member States where the recharging or refuelling station is located. | Format according to standard ISO 3166-1 alpha-2 codes | Location Class - country_code | Data format is not the same ISO 3166-1 alpha-3 codes |
| 10 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Region | Station | Name of the Member States region where the recharging or refuelling station is located, expressed in the nomenclature of territorial units for statistics (NUTS) 1 level. | Format according to NUTS-1 geocode standard | Location Class - state | Data format is not the same |
| 11 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | City or town | Station | Name of the Member States city or town where the recharging station is located. It shall include information on the municipality or stop name (e. g., highway, area) if not directly associated with the city or town. | Discrete value (string/text) | Location Class - City | |
| 12 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Postal code | Station | Postal code where the recharging or refuelling station is located, including potential additional identification information attending to the concrete characteristics of the postal code in that location. | Discrete/numeric value (combination of string/text and numeric) | Location Class - postal_code | |
| 13 | Recharging and refuelling infrastructure of alternative fuels | Static | Geographic location | Address name | Station | Where relevant, name of the street where the recharging or refuelling station is located, including the number. | Discrete/numeric value (combination of string/text and numeric) indicating the street name followed by the street number | Location Class - address | |
| 14 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Opening time | Station | Information regarding the time periods when a recharging or refuelling station is open and accessible to the public for recharging or refuelling, where applicable taking into account the time schedules of the building/facility that gives physical access to that recharging or refuelling station. | Discrete/numeric value (combination of string/text and numeric) indicating the week days followed by the time ranges when a recharging or refuelling station is open and accessible to the public | Location Class - opening_times | Data format is not the same |
| 15 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Time zone | Station | Time zone where the recharging or refuelling station is located. This data type shall be used in combination with other data types to ensure that the availability of a recharging or refuelling point is shown correctly and to make reservation possible and accurate. | Format according to standard ISO 8601 | Location Class - time_zone | Date format is not the same |

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| # | Type of alternative fuels infrastructure | Type of data | Data category | Data type | Data level | Description | Data format | OPCI 2.3.0 | Remarks |
| 16 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Vehicle-type compatibility | Station | Type of vehicle that may use a recharging or refuelling station. The type of vehicle shall be specified in accordance with UNECE vehicle categorisation 1 . The following vehicle categories shall be reported (yes/no): ·Two and three wheel vehicles and quadricycles (L) ·Passenger cars (M1) ·Buses and coaches (M2 or M3) ·Vans (N1) ·Trucks (N2 or N3) ·Other (expressed as free text) | Discrete/numeric value (combination of string/text and numeric) in list format | Location Class - Parking - Vehicle Type | Data format is not the same |
| 17 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Vehicle specifications permitted | Station | Where relevant, specific limitations to the weight and dimensions of vehicles (including trailers, semi-trailers, etc.) 2 , allowed to access the recharging or refuelling station. The following vehicle specifications, including trailers, shall be reported (yes/no): ·Maximum vehicle weight/mass. ·Maximum vehicle height. ·Maximum vehicle length. ·Maximum vehicle width. | Discrete/numeric value (combination of string/text and numeric) indicating maximum vehicle weight/mass in tonnes and maximum vehicle height, length and width in metres, including trailer. | Location Class - Parking - max_vehicle_weight - max_vehicle_height - max_vehicle_length - max_vehicle_width | Data format is not the same centimeters vs meters |
| 18 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Number of parking spaces | Station | Number of parking spaces that may be used at a recharging or refuelling station to conduct a recharging or refuelling session. It may be different to the number of recharging or refuelling points of that station. | Numeric value (integer number) | Location Class - Size of the list of Parkings - Counting charge parking bays at a location | |
| 19 | Recharging and refuelling infrastructure of alternative fuels | Static | Accessibility | Number of parking spaces for people with disabilities | Station | Number of parking spaces with accessible recharging or refuelling points for people with disabilities in compliance with relevant accessibility requirements defined in existing standards, guidelines or national legislation. | Numeric value (integer number) | EVSE class - Parking - Vehicle_type [DISABLED] | Data format is not the same |
| 20 | Recharging and refuelling infrastructure of alternative fuels | Static | Payment options | Payment device with bank card reader | Station | Indication on the existence (yes/no) of a payment terminal with the ability to enable the bank card (debit/credit) to be physically inserted in the terminal for the Europay, Mastercard and Visa (EMV) chip to be read. | Discrete value (string/text) | EVSE Class - capabilities [CHIP_CARD_SUPPORT] | Data format is not the same |
| 21 | Recharging and refuelling infrastructure of alternative fuels | Static | Payment options | Payment device with a contactless functionality that is at least able to read payment cards | Station | Indication on the existence (yes/no) of a payment terminal that is at least able to read bank cards (debit/credit) with a contactless functionality (e.g., Near Field Communication - NFC). | Discrete value (string/text) | EVSE Class - capabilities [CONTACTLESS_CARD_SUPPORT] | Data format is not the same |

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| # | Type of alternative fuels infrastructure | Type of data | Data category | Data type | Data level | Description | Data format | OPCI 2.3.0 | Remarks |
| 22 | Recharging and refuelling infrastructure of alternative fuels | Static | Payment options | Other ad-hoc payment option | Station | Indication on the existence (yes/no) of the following ad-hoc payment options: · Specific (i.e., dynamically generated) QR code · Payment through a website (e.g., static QR code) · Cash · Other (expressed as free text) | Discrete value (string/text) | - TBD - To be discussed if and how this can be done in best way. - No relevance of static or dynamic QR code: no real UC except for NAP | |
| 23 | Recharging and refuelling infrastructure of alternative fuels | Static | Payment options | Additional information about payment providers accepted | Station | Additional information indicating the payment service providers that accept electronic payments in the ad hoc payment option. | Discrete value (string/text) in list format | - TBD - Probably the card networks / card payment types are meant and NOT the PSPs - Part of 3.0 as card_payment_options at Station level - Adding it in 2.3.0 can result in migration issues | |
| 24 | Recharging and refuelling infrastructure of alternative fuels | Static | Payment options | Contract-based (subscription) payment option | Station | Possibility to pay for a recharging or refuelling service on the basis of a contract-based payment (yes/no) between the end user and the mobility service provider. | Discrete value (string/text) | EVSE Class - capabilities | Data format is not the same |

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|---|--|--------------|----------------------------------|---|------------|--|---|--|--|
| # | Type of alternative fuels infrastructure | Type of data | Data category | Data type | Data level | Description | Data format | OCPI 2.3 | Remarks |
| 1 | Electric recharging infrastructure | Static | General information | Recharging Point ID code (Connector) | Point | Unique ID of the recharging point, which includes the unique ID code of the recharging point operator issued by the IDRO (ID Registration Organisation). It supports the identification, including for billing and booking purposes, of the recharging point within a recharging station. | Discrete/numeric value (combination of string/text and numeric) | EVSE Class - evse_id | |
| 2 | Electric recharging infrastructure | Static | General information | Number of connectors | Point | Number of connectors in a recharging point. An electric recharging point may have one or more connectors, however only one can be used at the same time. | Numeric value (integer number) | EVSE Class - Size of the list of connectors | Data format is not the same |
| 3 | Electric recharging infrastructure | Static | General information | Type of connector (plug) | Point | Identification of connectors available in each recharging point within a recharging station: ·Type 2 (AC) ·Combo2/CCS (DC) ·Megawatt Charging System (MCS) ·CHAdeMO (DC) ·Other (expressed as free text) | Discrete value (string/text) in list format | EVSE Class - connectors - standard [ConnectorType Enum] | Data format is not the same |
| 4 | Electric recharging infrastructure | Static | Type of current | Type of current | Point | Type of electric current flow delivered at the recharging point, differentiating between alternating current (AC) or direct current (DC) | Discrete value (string/text) differentiating between AC and DC | EVSE Class - connectors - power_type [PowerType Enum] | Data format is not the same |
| 5 | Electric recharging infrastructure | Static | Power output | Recharging station maximum power | Station | Total maximum power that the recharging points of the station can provide at the same time. | Numeric value (number) expressed in kW | Connector Class - max_electric_power (Watts) - max_voltage + max_amps | The maximum power is only specified for a connector Data format is not the same |
| 6 | Electric recharging infrastructure | Static | Power output | Recharging point maximum power | Point | Maximum power that can be provided by the recharging point to the electric vehicle at a given time. | Numeric value (number) expressed in kW | Connector Class - max_electric_power | Data format is not the same |
| 7 | Electric recharging infrastructure | Static | Payment options | Mobility service providers offering contract-based recharging | Station | Information indicating the name of those mobility service providers that are offering contract-based payment options and are accepted in a recharging station. | Discrete value (string/text) in list format | EVSE - accepted_service_providers | |
| 8 | Electric recharging infrastructure | Static | Automatic authentication | Plug-and-charge | Point | Possibility of conducting automatic authentication and authorisation of the recharging session on the basis of a contract-based payment concluded between the end user and the mobility service provider (yes/no) in a recharging point. | Discrete value (string/text) | EVSE - Capabilities | Data format is not the same |
| 9 | Electric recharging infrastructure | Static | Smart recharging functionalities | Smart recharging services | Point | Possibility of using smart recharging services in a recharging point. The possibility of using the following smart recharging services must be indicated (yes/no): ·Remote monitoring and control recharging. ·User preference configuration for recharging power optimization. ·Bidirectional recharging. ·Other (expressed as free text) | Discrete value (string/text) | - To be discussed if and how this can be done in best way. - No OCPI use case (besides NAP) - Smart charging and V2X capable can be added via Value to the Capability OpenEnum | |
| 10 | Electric recharging infrastructure | Static | Renewable electricity | Electricity supplied is 100 % renewable | Station | The recharging station exclusively supplies 100% renewable electricity (yes/no) (EU Guarantee of Origin (GO) scheme). | Discrete value (string/text) | Location Class - energy_mix | Data format is not the same |

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|---|---|--------------|---------------|--------------------|------------|---|---|--------------|-----------------|---|
| # | Type of alternative fuels infrastructure | Type of data | Data category | Data type | Data level | Definition | Data format | OCPI 2.3 | OCPI 3.0 | Remarks |
| 1 | Recharging and refuelling infrastructure of alternative fuels | Dynamic | Functionality | Operational status | Point | Capability of the recharging or refuelling point to perform its function. The operational status of a recharging or refuelling point expressed as operational or non-operational: ·Operational: it can be used in normal conditions during the opening time that is accessible to the public. ·Non-operational: it cannot be used due to a technical problem or maintenance works. | Discrete value (string/text) expressed as operational or non-operational | Status Enum | EVSEStatus Enum | Data format is not the same |
| 2 | Recharging and refuelling infrastructure of alternative fuels | Dynamic | Functionality | Availability | Point | Possibility to use a recharging or refuelling point at present time and, when technically possible, at a specific future time. The availability of a recharging or refuelling point expressed as in use, reserved or not in use: ·In use: it is occupied ·Reserved: it is booked by an end user ·Not in use: it is non-occupied, thus available for use | Discrete value (string/text) expressed as in use, reserved or not in use | Status Enum | EVSEStatus Enum | Data format is not the same |
| 3 | Recharging and refuelling infrastructure of alternative fuels | Dynamic | Price | Ad hoc price | Station | For recharging infrastructure, indication of the end user price for recharging on an ad hoc basis, including all applicable price components. These must be indicated and expressed in national currency per kWh, national currency/min, or national currency/session. Any other price component that may apply in addition must be equally indicated. For refuelling infrastructure, indication of the end user price for refuelling on an ad hoc basis, expressed in national currency per kg of fuel. | Discrete/numeric value (combination of string/text and numeric) in list format expressed for recharging infrastructure in national currency per kWh, national currency/min, or national currency/session and for refuelling infrastructure in national currency per kg of fuel. National currencies shall be expressed according to ISO 4217, which establishes internationally recognised codes for the representation of currencies. | Tariff Class | Tariff Class | The tariff for a Charging Station can be determined by using the tariff association functionality |