Survey: Various Energy market and Data Hub Questions

This survey answers questions about following matters:

- Login methods/IDs used on Consumer Portals
- Metering data precision
- Data Hub process cancellation
- Plans for joining Energy Data Access Alliance
- Pre-paid meters
- Place of energy distribution costs calculation

Country	What "IDs" (VAT Code, Personal number) are you using for logins on Consumer Portal (portal on which you can check your energy consumption, give consent etc.) in case of: a) private/individual customer b) commercial customers (small, medium or large enterprises)	What is a basic metering data precision in your system (kW/kWh or W/Wh)?	Do you allow to cancel/modify the request already in progress (but not yet finished) in Data Hub?	Are you willing to join EDA (Energy Data Access Alliance) founders group i.e. are you going to sign LoI (Letter-of-Intend) during conference in Tallinn 28/11/2019r (https://energydata2019.eu/)?	How do you design pre-paid meters? Is it functionality of: a) Dedicated pre-paid meters b) One of the functionalities of SM (Smart Meters), i.e. decrementing register, combined with remote setting up of initial amount of energy to be consumed c) Functionality of Suppliers IT-Systems combined with sending orders to SM	Distribution costs of AP (Accounting Point) vs Data Hub: a) They are being calculated by Data Hub b) They are calculated by DSO and then sent to Data Hub c) We don't have distribution costs in our Data Hub
Belgium	a) One of the Belgian DSO's is deploying a customer portal on which the customer first has to register. The registration is then followed by an authentication flow. One of the possibilities is to use the National Register ID. After successful registration the customer can consult his history of energy consumption and in the future, he/she will also be able to "mandate" other parties to consult these data. b) Will in the future also be possible via the above-mentioned portal.	kW/ kWh and m³	Yes, we have developed an extensive "interaction matrix" for this reason, which describes the rules used to prioritize either incoming or pending transaction.	No intentions as far as I know.	Pre-paid meters are only used by the social suppliers supplying energy to customers with payment problems (social supplier is a role exercised by the DSO's). Most of them are dedicated pre-paid meters, but they are in the process of being replaced by digital meters using a central platform that does the clearing/checking of the paid/used energy, called the Prepayment Platform, to avoid suggestive texts.	Grid fee (transport + distribution) is calculated by the DSO's and sent to the energy supplier which consolidates this on one bill to the final energy consumer. In the future, when the datahub goes live, the datahub will calculate this grid fee and send it to the energy suppliers.
Denmark	a) The Danish DataHub is only for players in the market (DSO, Balance Suppliers and so on). But we have another system based on data from the DataHub (ODS copy) where consumers and Third Parties can have access. The will use the National Danish Digital login (NEM ID) based on CPR and CVR to get the relevant information. b) Same as above.	kWh with up to three decimals	Yes, several started processes can be cancelled before "point of no return". And both a supplier switch and a move process can also be rolled back after the change under certain conditions.	Don't know	No prepaid meter functionality in Denmark.	a) The DataHub is calculating the amounts based on aggregated meter data and reported subscriptions, fees and tariffs. The results are sent to the DSO and Balance Supplier – called wholesale settlement.

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Finland	a) We will use a national identification portal (which is used for other services as well) to identify consumers and provide them access to the Datahub consumer portal. The users can identify themselves against the national portal with for example Bank IDs. b) Companies will be able to use the same national identification portal. The persons with the right to sign for the company will be able to login on the companies' behalf and delegate the possibility to the persons within the company as well.	Will be stored in kWh in the system with up to 6 decimals.	We (will) support cancellations. In some processes they will be done with a separate cancellation message, in some processes the original message is sent with the new information.	Don't know the latest status of this.	No pre-paid meters.	In the cases where the Supplier is billing the grid fees, then b).
Germany	a) In the moment we have in Germany no Customer Hub. Perhaps one idea can be the personal tax identification number. But I think that is not secure enough, because when someone know it, you cannot change. b) Same as above.	electricity: kW/kWh, gas: m^3 and kWh	We have no Data Hub.	Not yet in discussion.	We have in Germany some prepaid – meters, but not in our company. So, I have no knowledge.	Not yet in discussion.

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Nether-lands	a) We are at the moment piloting. We have several systems to identify persons. After that we need to link them to the right Accounting Point (with a two-way authentication). After this is done an energy market ID is generated that allows customers to logon to the portal. b) Similar to above, the way to identify organisations differs from that to identify persons.	kWh resp m^3 with no decimals	As we usually use only one day lead time cancellation of an acknowledged request is hardly doable, so we do not have it. But we can destroy the effect by sending in another request with higher priority (see list of interfering processes).	No intentions yet.	Some suppliers are experimenting using the smart meter with an add-on. There does not seem to be much interest from (other) suppliers.	We have capacity-based grid fees. These are calculated monthly (number of days per capacity grid fee code) in the hub (based on the Metering Point administration) and send to the Grid Company and the Energy Supplier. Invoicing is not part of the hub.
Norway	a) In Elhub you can use different national electronic IDs. I believe the most used is a "Bank ID" (Bank ID is a digital national identity scheme offered in Norway, which enables private entities to sign agreements with authorities, banks and organisations online. Used by 80% of Norwegians). b) Same as above.	kWh with three decimals	Yes, most started process can be cancelled before "point of no return". E.g. for a supplier switch this one day before switch date for continuous read APs and 3 days before switch date for profiled APs. In case of errors, many processes can also be rolled back after the change.	I don't know, but probably not.	There is no prepaid meter functionality in Norway.	For the time being there are no Grid cost handled by Elhub. If agreed between the Grid Company and the Energy Supplier, the Energy Supplier may invoice the Grid cost on behalf of the Grid Company. If so, the invoice is sent directly from the Grid Company to the Energy Supplier using a PEPPOL infrastructure.

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Poland	a) We plan to use something called "Polish identification node" (independent portal that allows to identify customers) to identify customers and show them data assigned to their "personal number" in Data Hub. These are only plans, not confirmed yet. b) Probably owner of company will be able to give consent to specific "personal number" and then customer can log and see data like in answer a). These are only plans, not confirmed yet.	kW/kWh, but we have some plans to go with kW/kWh with three digits after comma (that will equal to W/Wh).	At the moment we don't plan to implement such function with one exception – "interfering energy market processes" that allows some processes to be "killed" by another process.	Yes, we plan to do so (as a TSO).	Not confirmed yet (it is being discussed mainly between DSOs and Energy suppliers), but because of costs it will probably be answer "c" – Functionality of Suppliers IT-Systems combined with sending orders to SmartMeters.	We plan to implement answer b – They are calculated by DSO and then sent to Data Hub
Slovenia	a) The VAT code is identifier of person and company. The system request is certificate or I AGREE with SMS to mobile or email. b) The responsible person of firm should appoint written consent and authorisation to person.	kW and kWh with no decimals	Yes, if it is asked to do so. If not, it is necessary to send a new request.	Not yet in discussion.	We have no pre-paid meters in Slovenia. The reason is in legislation where it is defined that household customer must be informed with disconnection at least 14 days before disconnection.	Distribution costs of AP are calculated by DSO and then sent to CENTRAL POINT OF CONNECTION FOR DATA EXCHANGE for suppliers. We have a hub just in some cases of data exchange. For all others we have CENTRAL POINT OF CONNECTION FOR DATA EXCHANGE for suppliers, DSO and other stakeholders. The closest for SI is answer b.

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Sweden	a) Bank ID is used as authentication and is connected to your personal identity number. Bank ID is widely-used in Sweden and is the suggested solution for private customers. b) We have the authority Bolagsverket - The Swedish Companies Registration Office, responsible for all organizations including board of directors and CEO. The private persons connected to a company/organization is allowed to login as the company in our portal.	Energy will be an integer in Wh or Varh	Yes, started processes can be cancelled before "point of no return", according to market rules (often until effectuation date).	No intentions yet.	No pre-paid meters.	According to alternative b)