

Full questionnaire: sections, questions and answer types

Section #	Form section	Question/Input	Answer type	Multiple or single choice options
1	Contact and facility info	Your full name	short free text	
1	Contact and facility info	Your email address	short free text	
1	Contact and facility info	Your job title	short free text	
1	Contact and facility info	Organisation/Institution	short free text	
1	Contact and facility info	Full name of the facility	short free text	
1	Contact and facility info	Short name or abbreviation for the facility (if appropriate)	short free text	
1	Contact and facility info	Website/URL for the facility (if appropriate)	short free text	
1	Contact and facility info	Based on the EPSRC "Tier" categorisation of facilities, how would you describe your facility? [See: https://www.ukri.org/councils/epsrc/facilities-and-resources/find-an-epsrc-facility-or-resource/]	multiple choice	<ul style="list-style-type: none"> - Tier 1 - Tier 2 - Tier 3 - Not categorisable by Tier
1	Contact and facility info	Location - e.g. town, city or county	short free text	
1	Contact and facility info	How many staff (FTEs) are employed in operating the facility?	numeric + short free text	
2	Funding and community	Which Research Councils (or other bodies) fund your facility?	multiple choice + short free text	<ul style="list-style-type: none"> - AHRC - BBSRC - ESRC - EPSRC - Innovate UK - MRC - NERC - Research England - STFC - Non-UKRI funding (please give details)
2	Funding and community	Do you know the percentage UKRI stake in the facility? Please state if known. (This would be 100% for all UKRI-owned or UKRI fully-funded facilities).	Y/N + numeric	
2	Funding and community	Do you know how many individual users your facility has per year? Please state if known	Y/N + numeric	
2	Funding and community	How would you define the geographical scope of your user community?	multiple choice	<ul style="list-style-type: none"> - International - National - Regional - Local
3	General characteristics	Does your facility support general purpose usage or a specific scientific focus? Please provide the specific focus if relevant.	multiple choice, and free text field.	<ul style="list-style-type: none"> - General Purpose - Specific scientific focus
3	General characteristics	If known, please characterise briefly the range of user activities carried out on the facility.	long free text	
3	General characteristics	How would you describe your facility in terms of its primary function?	multiple choice, with free text option	<ul style="list-style-type: none"> - High Performance Computing - High Throughput Computing - Cloud Computing - Storage (disk - traditional) - Storage (disk - object store) - Storage (tape) - Other (please specify)
3	General characteristics	What is the predominant component of physical infrastructure in your facility?	multiple choice	<ul style="list-style-type: none"> - Server (CPU) - Server (GPU + CPU) - Server (CPU + Disk) - Disk (Magnetic)

				<ul style="list-style-type: none"> - Disk (SSD) - Tape - Other (please specify)
3	General characteristics	Is it straightforward to summarise information about the predominant server/processor types (manufacturer, specification etc.)? If so, please provide details. If not, please provide comments on why it is challenging to summarise this information.	Y/N + long free text	
4	Technical details	What type of cooling system do you use?	multiple choice	<ul style="list-style-type: none"> - Air cooled - Liquid cooled - Hybrid - Other
4	Technical details	Does the cooling system re-use warm air to heat other buildings?	multiple choice	
4	Technical details	What is the total number of processing cores, or GPUs (if the main type), in your facility?	numeric	
4	Technical details	What is the total number of disks in your facility?	numeric	
4	Technical details	What is the current total storage capacity of your facility (in Petabytes)?	numeric	
4	Technical details	Do you have an estimate of the overall bandwidth utilisation between your facility and the rest of the world (in PB/year)?	numeric	
5	Energy supply	Do you have any direct control over your choice of energy supply?	Y/N + short free text	
5	Energy supply	Do you know the mix of renewable and non-renewable sources in your energy supply? If so, what percentage of your electricity is purchased on a green (renewable) tariff?	Y/N + numeric	
5	Energy supply	Who purchases electricity on behalf of the facility?	short free text	
5	Energy supply	Does your energy supplier have a policy on the provision of low-carbon energy? Please provide details.	Y/N/Don't know	<ul style="list-style-type: none"> - Yes - No - Don't know
5	Energy supply	Do you make use of on-site generation/storage of energy? (Not including any research on energy storage that might be conducted) If so, please provide details.	Y/N + long free text	
6	Energy usage and efficiency	What energy monitoring tools do you have at your disposal?	short free text	
6	Energy usage and efficiency	Please provide an estimate of your annual energy consumption in kWh.	numeric + short free text	
6	Energy usage and efficiency	If your estimate of annual energy consumption is significantly different from the maximum annual energy draw, please also provide the latter. If we have both numbers, we can estimate how much of the time the facility is running near the theoretical "peak usage".	numeric + short free text	
6	Energy usage and efficiency	At what level of granularity are you able to measure power consumption? (E.g. building, room, rack, server, processor, etc.)	short free text	
6	Energy usage and efficiency	Do you know what proportion of the energy usage of the facility sits within each of the GHG emission scopes (1, 2 and 3)? [See: https://www.carbontrust.com/resources/briefing-what-are-scope-3-emissions] Please provide details.	Y/N + short free text	
6	Energy usage and efficiency	Are you able to take advantage of the variation in energy consumption over time (days or weeks)? Please give details.	Y/N + short free text	
6	Energy usage and efficiency	Can load be managed to maximise the use of low-carbon energy supply?	Y/N + short free text	
6	Energy usage and efficiency	Do you record/provide any efficiency metrics for your energy usage? If so, please provide details.	Y/N + short free text	
6	Energy usage and efficiency	Do you calculate the Power Usage Effectiveness (PUE) for your facility? If so, what is the estimated annual value.	Y/N + short free text	
6	Energy usage and efficiency		short free text	
6	Energy usage and efficiency	Do you have knowledge about the proportions of energy consumption related to each component (e.g., storage, compute, networking, cooling etc.)? If so, please provide details, including whether the	Y/N + numeric	

		consumption is measured or based on information provided by manufacturers etc.,		
6	Energy usage and efficiency	Are there parts of your provision/service that are likely to register dramatic improvements in energy efficiency in the near future? Please provide details of what they are and what changes you anticipate.	long free text	
7	Environmental considerations and constraints	Does local weather have an impact on your need for cooling? If so, how significant is this in terms of energy usage.	Y/N + short free text	
7	Environmental considerations and constraints	Are there coal-peaking power plants in the area where your energy supplier is located?	Y/N/Don't know	- Yes - No - Don't know
7	Environmental considerations and constraints	Do you take environmental considerations into account when planning and designing a new facility? If so, please provide details.	Y/N + long free text	
7	Environmental considerations and constraints	Does your purchasing policy take into account environmental considerations? If so, please provide details.	Y/N + long free text	
7	Environmental considerations and constraints	Does your disposal policy take into account environmental considerations? If so, please provide details.	Y/N + long free text	
7	Environmental considerations and constraints	Please comment on whether there is any attempt to take into account the wider carbon footprint beyond that of operating the facility itself, for example due to manufacture, installation, disposal, or in terms of the three emissions scopes. [See: https://www.carbontrust.com/resources/briefing-what-are-scope-3-emissions]	long free text	
8	User engagement	Do you require users to meet a minimum knowledge level before using your facility? Please provide details, including whether knowledge of environmental factors is included.	Y/N + long free text	
8	User engagement	Do you have a budget allocated to user training relating to environmental issues, energy usage and efficiency? If so, how much (in total and per user)?	Y/N + numeric	
8	User engagement	Do you think the training has a noticeable impact on user behaviour? If so, in what way? Please provide details.	Y/N + short free text	
8	User engagement	Do you have information on users' energy footprints? If so, do you provide that information to your users? Please provide details.	Y/N + short free text	
8	User engagement	If you had an unlimited budget, what would you do to help users optimise the use of your facility in terms of energy efficiency? Please provide details.	long free text	
9	Other information, opportunity for feedback, and conclusion	Do you have any way of assessing "scientific throughput", i.e. the quantity and quality of scientific results obtained from work on your facility, and specifically relating it to facility usage (for example, research publications arising from a particular assignment of resources)? Please provide details.	long free text	
9	Other information, opportunity for feedback, and conclusion	What are the training needs for you and your team in terms of making progress towards Net Zero? Please provide details.	long free text	
9	Other information, opportunity for feedback, and conclusion	Do you think there is a need for standards, policies and/or certification to make progress towards Net Zero? Please provide details.	long free text	
9	Other information, opportunity for feedback, and conclusion	Are there any questions you would have expected us to ask but we did not, or any other information you think is relevant? Please provide details.	long free text	