

NTU ULT Freezer Challenge 2017 Record Sheet



INSTRUCTIONS

PART I : Applicant & ULT Basic Information

- Particulars are extracted from the application form, if there is any changes to be made please send email to EcoCampus@ntu.edu.sg

PART II : Baseline

- The record of the power usage will be recorded by organiser.
- The average power usage [kWh/day] will be shared to the individual applicant subsequently after the start of the practices implementation.

PART III : Adopted practices

1. With reference to the score sheet issued to you (the applicant), please read and select one of the recommended practices (refer to the score sheet) which you want to start with. Then fill in the necessary information and proceed with the needed actions in order to obtain the point(s) for the practice.
2. For those practices which require photos to be sent via Email. Do forward the photos to EcoCampus@ntu.edu.sg. Ensure that the display is in clear resolution for verification purpose. After sending the image, please tick in the [Check¹] column.
3. After that, select another practice which you want to adopt and then again repeat 1, 2 and so on.
4. From time to time, reps from ERI@N may visit you and make request for access to the freezer location to check on the recording order.
5. Please ensure that the power meter is not powered off unless there is a necessity to do so due to the practice like defrosting.
6. At the end of this practice exercise, the organiser will liaise with you on the date and time to retrieve the meter and collect the written record sheet. Please do not power off or remove the power meter until the organiser has recorded the necessary information.
7. For any clarification or problems encountered during the period, please send email to EcoCampus@ntu.edu.sg

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PART I : Applicant & ULT Basic Information				Meter Tag no:	< >
Applicant Name:		< >		Room Unit No:	< >
Brand:	< >	Model:	< >	Serial No:	< >

PART II : Baseline [To be recorded by organiser]				Set point Temperature (Current):	-80 °C
Start Date & Time (24hr)		End Date & Time (24hr)		Power Display	Photo record ¹
[dd/mm/yy]	[hh:mm]	[dd/mm/yy]	[hh:mm]		
01/11/17	10:00	15/11/17	10:00	322 kWh	<input checked="" type="checkbox"/>

S/N	Practice	For Applicant recording and actions		Check ¹	By Organiser
1	Defrost & remove dust from intake or coils (2pts)	Start Date & Time [dd/mm/yy], [hh:mm]	Completed Date & Time [dd/mm/yy], [hh:mm]	<input checked="" type="checkbox"/>	
		13/03/18, 15:30	15/03/18, 09:30		
2	ULT Clean out (1pt)	Approx. Total disposal capacity:	0.3 m ³	<input checked="" type="checkbox"/>	
		<ul style="list-style-type: none"> Photo of the discarded items to be sent via Email 		<input checked="" type="checkbox"/>	
		<ul style="list-style-type: none"> Photo(s) of the internal ULT compartment before and after clean out exercise shall be sent via Email for verification. 		<input checked="" type="checkbox"/>	
		Oldest Sample discarded:	Genome XX		
3	Sample Inventory (1pt)	From year: (mm/yyyy)	05/1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Photo of the sample to be sent via Email.		<input checked="" type="checkbox"/>	
4	Inventory barcoded (3pt)	<ul style="list-style-type: none"> Provide researcher, sample, sample date, experiment information on paper or file which have to be updated to the most recent sample additions and removal (@ least 90% complete inventory) 		<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Sharing (per additional PI) (2pts, Capped max 8 pts)	<ul style="list-style-type: none"> Photos of the barcoded storage containers, or display during collection of the power meter. 		<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Chill Up! (per 10°C) (3pts)	<ul style="list-style-type: none"> Photo(s) illustrating the demarcation of the shared ULT shall be sent via Email for verification. Photo of the ULT with names of the PI are also acceptable. 		<input checked="" type="checkbox"/>	
Start Date & Time [dd/mm/yy], [hh:mm]		21/03/18, 17:00			
Power (on the meter display) @ the start of this practice		608.2	kWh		
7	DNA @ -20°C (3pts)	The photo of the power value display (of the above) on the power meter to be sent via Email (refer to Annex B).		<input checked="" type="checkbox"/>	
		<ul style="list-style-type: none"> Photos of the DNA in the -20°C freezer, or display during collection of the power meter. 		<input checked="" type="checkbox"/>	<input type="checkbox"/>

¹ Tick after the photo(s) are sent via Email as it is for record and verification (when necessary)

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S/N	Practice	For Applicant recording and actions	Check ¹	By Organiser
8	Retire and upgrade to an existing and better energy efficient ULT (4pts)	<ul style="list-style-type: none"> Photos of the existing replaced ULT, or display during collection of the power meter. <p>Following information can be found on the nameplate at the side of the equipment:</p>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Brand: A Model: MEF-0305		
		Serial No: 057493-91 Capacity: 375 Litres		
		Power: 12 kWh/day Age: 3 year(s)		
9	Retire and upgrade to an existing and better energy efficient ULT (6pts)	<ul style="list-style-type: none"> Photos of the existing replaced ULT, or display during collection of the power meter. <p>Following information can be found on the nameplate at the side of the equipment:</p>	<input type="checkbox"/>	<input type="checkbox"/>
		Brand: Model:		
		Serial No: Capacity: Litres		
		Power: kWh/day		
10	Operating space temperature of $\leq 25^{\circ}\text{C}$ (1pt)	<ul style="list-style-type: none"> Verified by ERI@N reps. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Store ULT in well ventilated space and away from heat sources (1pt)	<ul style="list-style-type: none"> Verified by ERI@N reps. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	No item(s) stored on top off or around the ULT. (1pt)	<ul style="list-style-type: none"> Verified by ERI@N reps. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Collection of the power meter (To be filled by organiser)		Date & Time:	
Current operating ULT temperature:	°C	Current set point ULT temperature:	°C
Power [kWh]:	Time [00:00]	Day [no]	
Photo of the power meter display ¹ :	<input type="checkbox"/>		

¹ Tick after the photo(s) are sent via Email as it is for record and verification (when necessary)