**SHORT ASSESSMENT – HTF COMPACT SOLUTION**

The objective of this short questionnaire is to assess the viability of a potential application of HTF Compact nanofluid – nanotechnology for heat exchange enhancement - at your facility (e.g. Heat, Ventilation, Air Conditioning, Refrigeration, Heating) and to estimate the potential energy savings.

**GEOGRAPHICAL LOCATION**

Please indicate the location of your facility:

Company:

Country:

Region:

Address & City:

**BUSINESS SEGMENT OF YOUR FACTORY / FACILITY**

















**FACILITY EVOLUTION**

Do you have any upcoming plans for your facility/installation? If yes, please select all that apply:





**DESCRIPTION OF THE SYSTEM IDENTIFIED**

Please indicate the type of system







2 Please indicate main machinery involved in the application:



 

Please indicate brand and model:

If possible, please submit the following information:

* Nominal thermal power (kW)

* Efficiency of equipment (COP in case of chiller or heat pump)

Please mention / describe machinery brand / model, rated power, and technical description of additional equipment such as pumps, cooling tower fans if any:



1. Is your system utilization seasonal?



 Please indicate the duration of: - high season months per year

Please indicate the duration of: - low season months per year



1. Does the system work 24/7?





1. Does the coolant have to be food graded?





1. Volume and type of heat transfer fluid utilized

 Please indicate the volume of coolant in liters

 If glycol is utilized, what is the % in the coolant, in liters

 What is the type of glycol:

 

 

 If you don’t use distilled water, please indicate its hardness in ppm

 Electrical conductivity of the heat transfer fluid (μS/m)

1. Temperature of heat transfer fluid

 Please indicate the usual temperature of fluid before exchanger, (°C)

 Please indicate the usual temperature after the exchanger, (°C)

**ENERGY CONSUMPTION AND MONITORING**

1. energy consumed by the system including pump, chiller or/ and other actuators.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Product** | **2016** | **2017** | **2018** | **2019** | **>= 2020** |
| Electricity (kWh per year) |  |
| Fuel ( per year) |  |

In case a boiler is present, please specify fuel utilized:

1. Electrical energy absorbed by the chiller/heat pump (kWh)

1. data not available due to:





1. please indicate the landed price of electricity

|  |  |  |
| --- | --- | --- |
|  |  |  |
| Low (LC/kWh)  |  From to  |  |  |
| Peak (LC/kWh) |  From to  |  |  |

 Vale (LC/kWh) From to

 Local Currency

**LOW CARBON STRATEGY**

1. How would you rate the current situation at your installation in term of energy efficiency?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

1. How relevant is greenhouse gases emissions reduction at your company?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

1. Are there incentives for emissions reduction?





**OTHER COMMENTS / INFORMATIONS**



THANK YOU!