

GHF (Green Heart Factory)

Green Heart Factory is an environmental monitoring system or guideline set by DAIKIN. The Daikin Group has an in-house standard for evaluating and certifying environmentally conscious plants for their environmental and social performance. Plants scoring at least 85 points out of 100 are certified as Green Heart Factories, while those scoring at least 95 points are certified as Super Green Heart Factories.


Daikin Refrigeration Malaysia (DRM) certified as Green Heart Factory in February 2017. The 3rd Green Heart Factory evaluation shown in table below.

		Company	1 st	2 nd	3 rd			Company	1 st	2 nd	3 rd
SGHF	EU	DENV	87.3	97.5	99	GHF	China	DRS	77.1	86.19	87.02
	China	DCC	80.8	97.47	96.97		China	MQ(Shenzhen)	57	89.5	86.98
	China	DISH	86.4	96.54	96.59		China	AAF (Wuhan)	76.6	81.3	86.78
	EU	DICz	85	92.9	96.4		EU	DCN	80.9	90.4	86.5
	Thai	DCI	87.4	90.9	96.3		China	MQT (Shenzhen)	60.1	86.2	86.48
	China	DIS	88.3	91.37	95.66		EU	AAF(NL)		78.2	86.4
Thai	DIT	83.1	96.6	95	China		MQ(Wuhan)	71.3	87.79	86.28	
EU	ROTEX	-	86	93.3	Malaysia		DEDM	69.6	75.4	86.12	
Thai	DAT	86.5	91	92.63	EU		DAE	70.4	82.6	85.7	
China	AAF (Shenzhen)	73.7	85.6	92.43	EU		DCF	57.2	73.1	81.6	
USA	DAI	86	87.3	92.3	USA		DAA (Owatonna)	64.7	79.9	73.5	
China	DFS	79.8	88.51	91.5	Malaysia		AAF(MAL)	57	69.14	72	
EU	DDC	82.8	88.7	90.2	USA	DAA(Faribault)	61.8	81	71.7		
China	AAF (Suzhou)	75.2	78.83	89.82	USA	DAA(Staunton)	49	71.6	66.9		
China	DIX	90.1	88.64	89.58	EU	AAF (SK)	-	44.3	61.9		
China	DSZ	-	-	89.38	Aus.	DAS	48.5	-	48.5		
China	DDS	86.8	87.12	89.05	USA	DAA(SLP)	-	27.3	29.2		
Malaysia	DRM	42.3	40.24	88.73							
Malaysia	DAMA	47.6	62.3	88.59							
China	MQ(Suzhou)	75.7	87.5	88.5							
EU	DTAS	-	86.6	87.6							
China	DMS	80.1	85.62	87.58							
EU	J&E(C&P)	80	79	87.2							
EU	AAF(UK)	-	81.9	87.2							


Source: Asia Oceania Environmental Conference 2017

Table 1: 3rd GHF Evaluation Result

In order to achieve GHF status, Daikin has set environmental action plan 2020 where all Daikin companies have to implement target and reduce carbon footprint, reduce water footprint, proper energy management and other activities related advance environmental management as shown in figure 1.



“Environmental Action Plan 2020”



2) The two-level target for the absolute amount of GHG gas is **70% reduction (1.2 million tons) from the level of FY2005 by FY2020, 75% reduction (1.04 million tons) by FY2025.**
 And we investigate to move up the 75% reduction schedule.

- Examine the following measures to achieve the reduction of greenhouse gases to one-fourth.

- [1] A measure to reduce the sources of fluorocarbons such as the recovery and destruction activities and the use of alternative solvents (Chemicals Div.)
- [2] Integration of methods to keep track of fluorocarbons emissions (Capra calculation method) (air conditioner equipment organization)
- [3] Promotion of measures to reduce emissions from energy uses which are not the extension of conventional measures (air conditioner equipment organization, chemical organization)
- [4] Exploration for the global implementation of energy conservation diagnosis (Global Env.)
- [5] Promotion of making wasteful use of energy and improvement visible (Global Env. Energy Reduction Subcommittee)
- [6] Exploration to establish EnMS such as ISO50001 and ISO14064 (individual organizations and Global Env.)
- [7] Measures to reduce emissions from energy uses through the participation of everyone by improving their awareness (e.g. installation of Environmental Dojo in each station) (individual organization, Global Env.)
- [8] Contribute to achieve CO2 reduction targets in other countries.
 ⇒ Individual organizations estimate the amount of CO2 emissions in 2018 and 2020 based on Fusion 20 (individual organization, August 2016)

Source: Asia Oceania Environmental Conference 2017

Figure 1: Daikin Environmental Action Plan 2020



Daikin Global environment Center has set policy to achieve Green heart factory and to implement advance environmental management.

Fusion 20 CSR & Global Environment Center Policy goals are:

- 1) To implement CSR & Environmental management befitting a global excellent company
- 2) To recognize or create social value of our business, then let society acknowledge.
- 3) To implement “ESG (environment/social/governance)” that forefront the time stay ahead of curve.
- 4) To promote the GHG reduction activity befitting an environment advanced company by focusing the measure for GHG from energy in addition to measure for fluorocarbon reduction.
- 5) To promote the measure of environment & energy by diffuse energy saving technology.
- 6) To promote the measure of GHG such as refrigerant or heat-pump.
- 7) To contribute to 60 million t-CO₂ reduction by diffusing environmental product by 2020.
- 8) To continue the “Forest for the Air project” and the conservation of biodiversity on our sites. These raise the environmental awareness of employee, then we deepen the relationship to local.