

Calculation of AER X-PRESS FEEDERS

Nippon Kaiji Kyokai (ClassNK) was commissioned by X-Press Feeders to confirm the values of its vessels' annual efficiency ratios (AER) and to calculate its fleet's average AER for year 2023.

❑ **Scope of Validation Engagement:** X-Press Feeders's fleet of 64 vessels

❑ **Calculation Method:** $AER \left(\frac{gCO_2}{t.nm} \right) = \frac{\sum Fuel\ consumption \times Emission\ Factor}{\sum Distance\ Travelled * Deadweight}$

❑ **Data used:**

X-Press Feeders provided ClassNK with AER, fuel consumption, distance, and deadweight data of its fleet. All vessels received IMO-DCS statements of compliance from classification societies. ClassNK's checks and calculations are based on this data. ClassNK will not be held responsible for any errors in the data provided by X-Press Feeders.

❑ **Data Management Responsibility:**

X-Press Feeders was responsible for maintaining effective internal controls over the data and information disclosed. It is X-Press Feeders who, in the final instance, will approve the AER for year 2023.

❑ **Individual vessel AER and whole fleet average AER for year 2023:**

ClassNK confirms the below individual vessel AER values, and calculates the entire 64-vessel fleet's average AER as equal to **10.47gCO₂/t.nm**.

Sl. No.	IMO No.	Vessel Name	AER 2023
1	9339600	Alioth	17.80
2	9354375	Atlantis A	21.08
3	9313204	Baltic Fulmar	19.59
4	9313216	Baltic Petrel	20.88
5	9313228	Baltic Shearwater	19.28
6	9313199	Baltic Tern	19.70
7	9366500	CFS Horizon	17.49
8	9366495	CFS Wind	21.42
9	9799915	Crystal A	12.91
10	9262572	EA Blue Nile	8.94
11	9967469	EA Centaurus	6.84
12	9967483	EA Chara	4.67
13	9937476	EA Gannet	10.90
14	9937488	EA Noddy	10.60
15	9744685	Mahaweli	10.35
16	9622019	Mediterranean Express	7.69
17	9817353	MH Green	7.04
18	9967433	MH Perseus	4.71
19	9295505	Mizar	18.92
20	9412476	Orinoco	22.49
21	9936989	Tiger Chennai	6.78
22	9483671	X-Press Agility	22.66

23	9875379	X-Press Altair	9.18
24	9623843	X-Press Anglesey	9.45
25	9875367	X-Press Antares	7.41
26	9875381	X-Press Antlia	7.29
27	9936991	X-Press Aquarius	6.43
28	9477323	X-Press Bardsey	8.51
29	9152911	X-Press Brahmaputra	70.95
30	9967419	X-Press Capella	4.76
31	9967445	X-Press Carina	5.76
32	9967457	X-Press Cassiopeia	5.53
33	9256391	X-Press Cotopaxi	13.63
34	9760639	X-Press Dhaulagiri	13.98
35	9483669	X-Press Elbe	22.59
36	9311737	X-Press Euphrates	12.32
37	9301093	X-Press Ganges	19.01
38	9353735	X-Press Godavari	20.79
39	9399117	X-Press Hoogly	20.33
40	9323493	X-Press Irazu	13.29
41	9299513	X-Press Irrawaddy	21.06
42	9793727	X-Press Kabru	9.27
43	9348912	X-Press Kailash	10.02
44	9348924	X-Press Karakoram	11.12
45	9470765	X-Press Kaveri	12.49
46	9155016	X-Press Kohima	14.09
47	9678642	X-Press Lhotse	12.11
48	9325441	X-Press Machu Picchu	10.44
49	9360556	X-Press Meghna	22.44
50	9875355	X-Press Mekong	8.81
51	9292943	X-Press Monte Cervino	24.21
52	9629419	X-Press Moy	12.34
53	9365960	X-Press Mulhacen	23.56
54	9348194	X-Press Netravati	14.85
55	9744659	X-Press Nilwala	12.73
56	9678630	X-Press Nuptse	14.51
57	9656137	X-Press Odyssey	7.50
58	9967524	X-Press Pisces	5.79
59	9862736	X-Press Sagarmala	11.47
60	9862748	X-Press Salween	9.85
61	9315032	X-Press Shannon	22.61
62	9354349	X-Press Sousse	20.59
63	9328651	X-Press Vesuvio	27.07
64	9412488	Yerupaja	24.71
Fleet average AER			10.47

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