



**Market Coverage**  
**Battery Health Check CARA Approved®**

**Created by**  
**CARA Europe Battery Health Workgroup**

**Version 1.0**

**Created by: Svenja Vloeberghs**

**Approved by: Roland Gagel, 16 February 2023**

## Requirements to cover the market

The providers must demonstrate that the test covers at least a predetermined percentage of BEV Passenger Vehicle Fleet registered in the previous year, including the confirmation, which brands and models can be tested with the test and any applicable exclusions. It is possible to provide a timeline of when tests for certain makes/models in future will be possible.

The provider needs to provide any evidence that tests have been performed for the minimum set of vehicles required and results

Vehicle registrations are based on official sources<sup>1</sup> or third parties that state their sources as an official authority. For simplicity, the minimum of 80% will be based on yearly registration at model level. As soon as new manufacturers of BEV vehicles enter the market relevant for CARA, they are included in the list of OEMs according to their respective percentage market coverage.

- (i) For 2023 certification, the level of model coverage is required to be at least 80%
- (ii) For 2024 certification, the level of model coverage is required to be at least 85%
- (iii) For 2025 certification and later, the level of model coverage is required to be at least 90%

### Example of minimum coverage from 1st HJ 2022<sup>2</sup>

Applicants will need to self-assess their coverage based on the following model basket:

#	Brands	Model	%	Aggregate
1	TESLA	MODEL 3	12,2%	12,2%
2	RENAULT	ZOE	7,0%	19,2%
3	VOLKSWAGEN	ID.3	5,8%	25,0%
4	FIAT	500E	4,3%	29,3%
5	VOLKSWAGEN	UP!	4,2%	33,5%
6	PEUGEOT	E-208	4,2%	37,7%
7	HYUNDAI	KONA	3,8%	41,5%

#	Brands	Model	%	Aggregate
58	TOYOTA	PROACE	0,1%	98,0%
59	OPEL	ZAFIRA-E	0,1%	98,1%
60	VAUXHALL	VIVARO	0,0%	98,1%
61	PEUGEOT	E-RIFTER	0,0%	98,2%
62	OPEL	VIVARO-ZAFIRA LIFE	0,0%	98,2%
63	MG	MARVEL R	0,0%	98,3%
64	AIWAYS	U5	0,0%	98,3%

<sup>1</sup> Official sources refer to either a local vehicle registration authority, ex. KBA in German, or a relevant association, ex. ACEA

<sup>2</sup> Market share per OEM based on year 2021 and on the following countries: Germany, Norway, UK, France, Italy, Spain, Denmark, Finland, Switzerland, Sweden, Netherlands, Austria, and Portugal.

#	Brands	Model	%	Aggregate
8	KIA	NIRO	3,8%	45,3%
9	AUDI	E-TRON	3,3%	48,5%
10	VOLKSWAGEN	ID.4	3,1%	51,6%
11	SMART	FORTWO	3,1%	54,7%
12	SKODA	ENYAQ	3,0%	57,7%
13	MINI	COOPER	2,9%	60,6%
14	RENAULT	TWINGO	2,7%	63,4%
15	DACIA	SPRING	2,6%	65,9%
16	NISSAN	LEAF	2,4%	68,3%
17	BMW	I3	2,2%	70,5%
18	PEUGEOT	E-2008	2,2%	72,7%
19	OPEL	CORSA-E	2,0%	74,7%
20	MERCEDES-BENZ	EQA	1,7%	76,3%
21	PORSCHE	TAYCAN	1,3%	77,7%
22	FORD	MUSTANG MACH-E	1,3%	79,0%
23	HYUNDAI	IONIQ 5	1,2%	80,2%
24	OPEL	MOKKA-E	1,1%	81,3%
25	BMW	IX3	1,1%	82,4%
26	MERCEDES-BENZ	EQC	1,0%	83,5%
27	TESLA	MODEL Y	1,0%	84,5%
28	SMART	FORFOUR	1,0%	85,5%
29	HYUNDAI	IONIQ	1,0%	86,5%
30	MG	ZS	1,0%	87,5%
31	CITROEN	E-C4	0,9%	88,4%
32	SEAT	MII	0,8%	89,2%
33	MAZDA	MX-30	0,8%	90,0%

#	Brands	Model	%	Aggregate
65	SERES	3	0,0%	98,3%
66	MERCEDES-BENZ	EQB	0,0%	98,3%
67	PEUGEOT	E-TRAVELLER	0,0%	98,4%
68	TESLA	MODEL X	0,0%	98,4%
69	VOLKSWAGEN	TRANSPORTER	0,0%	98,4%
70	OPEL	COMBO-E	0,0%	98,4%
71	CITROEN	E-SPACETOURER	0,0%	98,4%
72	MAXUS	E-DELIVER	0,0%	98,4%
73	DFSK	SERES 3	0,0%	98,4%
74	TESLA	MODEL S	0,0%	98,4%
75	RENAULT	MEGANE	0,0%	98,4%
76	VOLKSWAGEN	CADDY	0,0%	98,4%
77	DR	EVO	0,0%	98,4%
78	FIAT	DUCATO	0,0%	98,4%
79	OPEL	VIVARO-E	0,0%	98,4%
80	JAC	IEV7S	0,0%	98,5%
81	MERCEDES-BENZ	SPRINTER	0,0%	98,5%
82	RENAULT	KANGOO	0,0%	98,5%
83	VAUXHALL	COMBO	0,0%	98,5%
84	SSANGYONG	KORANDO E-MOTION	0,0%	98,5%
85	DFSK	EC35	0,0%	98,5%
86	OPEL	AMPERA-E	0,0%	98,5%
87	MELEX	378	0,0%	98,5%
88	SERES	DFSK	0,0%	98,5%
89	VOLKSWAGEN	CRAFTER	0,0%	98,5%
90	ZAGO AUTOMOTIVE	CRAFTER	0,0%	98,5%

#	Brands	Model	%	Aggregate
34	VOLVO	XC40	0,7%	90,7%
35	JAGUAR	I-PACE	0,7%	91,4%
36	Vauxhall	Corsa-E	0,6%	92,1%
37	KIA	EV6	0,6%	92,7%
38	POLESTAR	2	0,6%	93,3%
39	MG	5	0,6%	93,9%
40	KIA	SOUL	0,6%	94,5%
41	SKODA	CITIGO	0,4%	94,8%
42	DS	3 CROSSBACK	0,4%	95,2%
43	BMW	I4	0,3%	95,5%
44	VAUXHALL	MOKKA	0,3%	95,8%
45	HONDA	E	0,3%	96,1%
46	MERCEDES-BENZ	EQV	0,3%	96,4%
47	CUPRA	BORN	0,3%	96,7%
48	SEAT	BORN	0,3%	97,0%
49	VOLKSWAGEN	GOLF	0,2%	97,2%
50	LEXUS	UX 300E	0,2%	97,4%
51	MERCEDES-BENZ	EVITO	0,1%	97,5%
52	CITROEN	JUMPY	0,1%	97,6%
53	VOLVO	C40	0,1%	97,7%
54	Nissan	E-NV200	0,1%	97,7%
55	MERCEDES-BENZ	EQS	0,1%	97,8%
56	CITROEN	E-BERLINGO	0,1%	97,9%
57	PEUGEOT	E-EXPERT	0,1%	98,0%

#	Brands	Model	%	Aggregate
91	ZHIDOU	ZHIDOU	0,0%	98,5%
92	SEAT	SEAT-OTHER	0,0%	98,5%
93	ABT	ABT E-CADDY	0,0%	98,5%
94	MAN	TGE	0,0%	98,5%
95	PEUGEOT	E-PARTNER	0,0%	98,5%
96	IGH	PORTER ELECTRIC	0,0%	98,5%
97	XPENG	P7	0,0%	98,5%
98	XPENG	P5	0,0%	98,5%
99	ABT	E-TRANSPORTER	0,0%	98,5%
100	JAC	XEV	0,0%	98,5%
101	BYD	TANG	0,0%	98,5%
102	GREEN TOUR	EV4	0,0%	98,5%
103	OPEL	ZAFIRA LIFE	0,0%	98,5%
104	BYD	HCE	0,0%	98,5%
105	CITROEN	C-ZERO	0,0%	98,5%
106	EP	EFL302	0,0%	98,5%
107	GOUPIL	G4	0,0%	98,5%
108	MAXUS	EUNIQ	0,0%	98,5%
109	MAXUS	EV80	0,0%	98,5%
110	NISSAN	ARIYA	0,0%	98,5%
111	PIAGGIO	PORTER	0,0%	98,5%
112	Renault	MASTER	0,0%	98,5%
113	STELLA	VITA	0,0%	98,5%
114	Other	Other	1,52%	100,0%