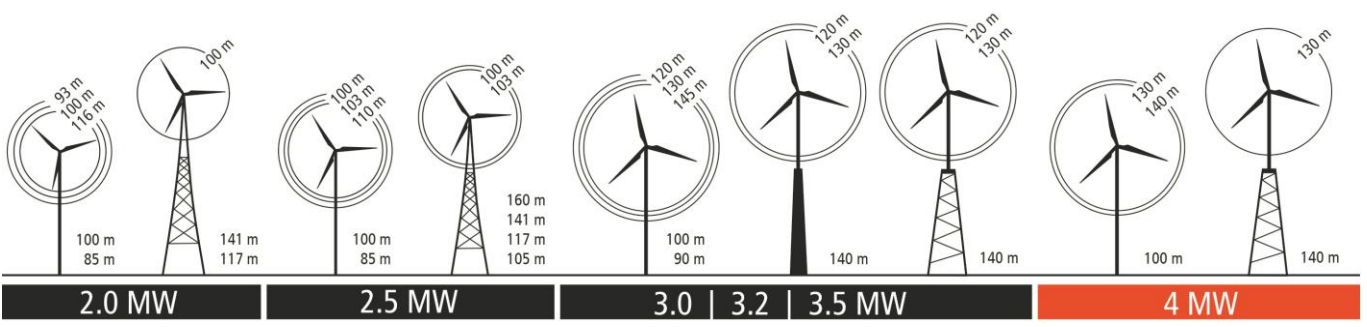
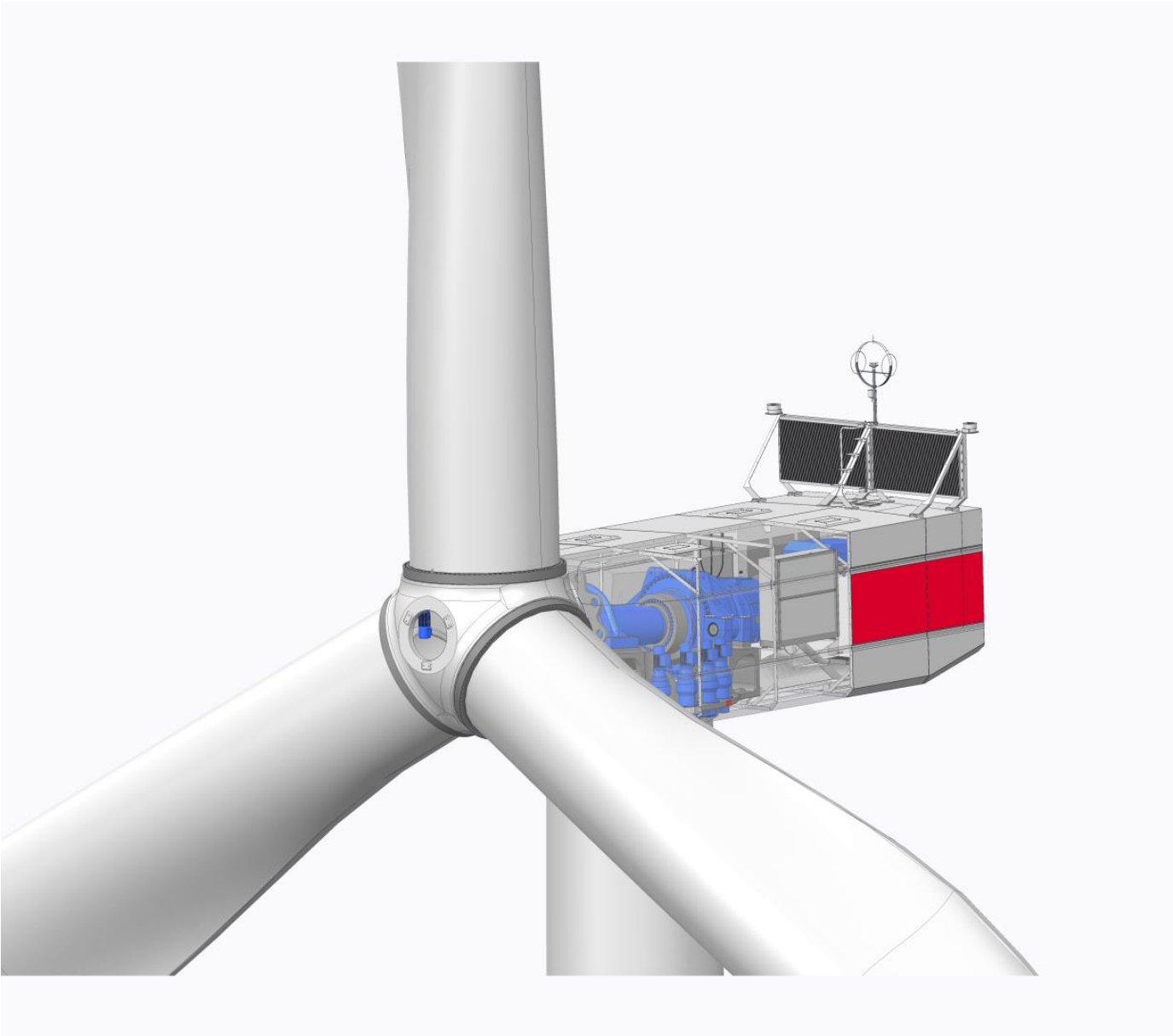


Rated power: 4.5 MW
 Rotor diameter: 151 m
 Wind class: IEC 3a



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TECHNICAL DATA

Rated power	4.5 MW
Rotor	151 m
Wind class	IEC 3a
Cut-in wind speed	3 m/s
Rated wind speed	12 m/s
Cut-out wind speed	20 m/s
Sound power	110.2 db(A)
Hub height	100 m to 130 m tubular tower 140 m lattice-tubular or concrete-tubular hybrid tower
Drive train concept	3-point suspension
Electrical configuration	Doubly-fed induction generator (DFIG) / IGBT converter
Power control - LARUS Smart®	Triple independent pitch system
Safety System - LARUS Safe®	Matrix safety system acc. to GL guideline, ed. 2010

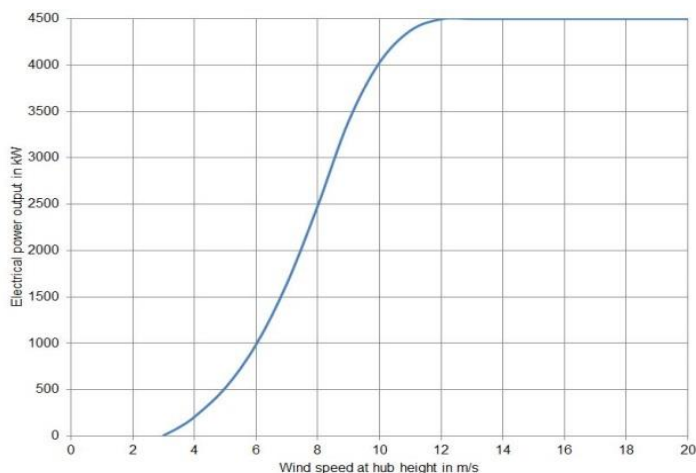
POWER CURVES*

V _{WIND} [m/s]	Power [kW]
3	5
3.5	92
4	205
5	517
6	985
7	1,643
8	2,483
9	3,395
10	4,027
11	4,372
12	4,497
13	4,500
14	4,500
15	4,500
20	4,500

ANNUAL YIELD*

V _{WIND} [m/s]	Yield [MWh]
5.0	8,291
5.5	10,378
6.0	12,448
6.5	14,437
7.0	16,296
7.5	17,990

* Standard conditions and calculations acc. to IEC 61400-12



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