



Co-funded by the Horizon 2020 programme
of the European Union

SMILE, Ballen, Samsø

7 September 2021

Jan Jantzen, Samsø Energy Academy (jj@energiakademiet.dk)

www.h2020smile.eu

Specifikationer (dansk)		Specifications (English)
Målt selvforsyningsgrad	43%	Measured degree of self-supply
Samme, uden batteri	26%	Same, without the battery
Målt egetforbrug af solcellernes årlige energi	89%	Measured own consumption of annual PV energy
Samme, uden batteri	45%	Same, without the battery
Batteriets nominelle kapacitet	237 kWh (Xolta BAT-79)	Nominal capacity of battery
Batteriets brugbare kapacitet	211 kWh	Accessible capacity of battery
Årlig system-virkningsgrad (AC-AC)	85%	Annual system round-trip efficiency (AC-AC)
Batteri-konverterens effekt	49 kW (ABB ESI-S)	Battery converter power
Solcellernes nominelle effekt	60 kWp (Eurener)	PV plant nominal power
Solcelle-inverterens effekt	49 kW (Fronius, Enphase Energy)	PV inverter power
Solcellernes beregnede ydelse	56 000 kWh/year (Better Energy)	PV plant estimated annual yield
Solcellernes areal	155 m ² (Better Energy)	PV plant area
Lystbådehavnens elforbrug (2016)	105 000 kWh/year (NRGi)	Marina annual demand (2016)
Antal stik til bådene	340 (CompuSoft, Seijsener)	Sockets for the boats
Hvert stik har en elmåler og en fjernstyret afbryder	(CompuSoft, Seijsener)	Each socket has a meter and a remotely controlled switch
Maximal tilladelig eksport til det offentlige elnet	49 kW (KONSTANT Net A/S)	Max allowed export to the grid
Antal varmepumper	5 (Daikin)	Number of heat pumps
Varmepumpe dækning i havnekontoret	100 %	Heat pump coverage in harbour master's office
Fjernvarmeforbrug i toiletbygningen	18 000 kWh/year (Ballen-Brundby Fjernvarme amba)	District heating consumption of the service building
Spildevandstank	2 m ³ (Xylem, Inc.)	Wastewater tank
Sauna i badebygningen	15 kW (SAWO, Inc.)	Sauna in the service building
Ladestik til havnefogedens elbil	11 kW	Charging point for the harbour master's electric vehicle
Ladestik til 3 dele-elbiler	16 amp (Lasses Auto)	Charging sockets for 3 rental electric vehicles
Link til betalingssystemet	cpay.dk/site/marsamb	Link to the payment system