

KSTAR Case Study

KSTAR C&I ESS Cases BluePulse Series

KSTAR C&I ESS Installation Worldwide

EU

 **3,000+**
units installed

 **180+ MW**

 **283+ tons**
CO₂ saved

Global

 **5,000+**
units installed

 **300+ MW**

 **471+ tons**
CO₂ saved



BluePulse Series

KSTAR

Safe & Reliable

CATL LFP Battery Cell
Double Fire Suppression System Design
1+1 Redundancy Design

Simple & User-friendly

Pre-installed in Factory for Easy Installation on site
Integrated BMS/EMS, Suitable for Various Applications
Effortless Operation, Cloud Control

Economical & Efficient

Save CapEx, Expanding as Required
Efficient and Energy-saving HVAC Design





Project Cases - Self Consumption

Location:

Oman

Capacity:

375kW / 591kWh

3 units of KAC125DP2-BC197DE2

In addition to PV, system is utilizing external diesel generator to charge the batteries and feed the loads when needed



Project Cases - Self Consumption

Location:

Social Center, Arões, Oporto, Portugal

Capacity:

50kW / 100kWh

KAC50DP-BC107DE2 + STS100



Project Cases - Self Consumption

Location:

VIVISOL - Home care provider, Barcelona, Spain

Capacity:

100kW / 200kWh

2*KAC50DP2-BC107DE2



Project Cases - Self Consumption

Location:

Waste-to-energy company, Salamanca, Spain

Capacity:

70kW / 100kWh

BluE-20KT + KAC50DP2-BC107DE2





Project Cases - Self Consumption

Location:

GLS - Logistic company, Valencia, Spain

Capacity:

50kW / 100kWh

KAC50DP-BC107DE2 + STS100

Project Cases - Self Consumption

Location:

Producer of cold cuts and meat, Ruse, Bulgaria

Capacity:

376kW / 699kWh

3 units of KAC125DH-BC233DE



Project Cases - Time of Use

Location:

Bakery, Kamiensk, Poland

Capacity:

4 units of KAC125DP2-BC233DE2





Project Cases - Self Consumption

Location:

Ceska Vejce, Czech Republic

Capacity:

600kW / 591kWh

3 units of 2*KAC50DP-BC197DE



Project Cases - Self Consumption

Location:

Case Zlata Krava, Czech Republic

Capacity:

50kW / 107kWh

KAC50DP2-BC107DE





Project Cases - Dynamic Control

Location:

Squadron Breda, Netherlands

Capacity:

50kW / 107kWh

KAC50DP2-BC107DE

Project Cases - Dynamic Control

Location:

TMO Hulsel, Netherlands

Capacity:

50kW / 107kWh

KAC50DP2-BC107DE





Project Cases - Dynamic Control

Location:

Minitopia, Netherlands

Capacity:

50kW / 107kWh

KAC50DP2-BC107DE





Project Cases - Dynamic Control

Location:
Poland

Capacity:
50kW / 197kWh
KAC50DP2-BC197DE2

Project Cases - Time of Use

Location:
Warehouse, Poland

Capacity:
50kW / 107kWh
KAC50DP2-BC107DE2





Project Cases - Time of Use

Location:

Construction materials factory, Poland

Capacity:

50kW / 100kWh

KAC50DP-BC100DE



Project Cases - Self Consumption

Location:
Fire station, Poland

Capacity:
50kW / 197kWh
KAC50DP2-BC197DE





Project Cases - Self Consumption

Location:
Poland

Capacity:
50kW / 197kWh
KAC50DP2-BC197DE



Project Cases - Self Consumption

Location:
Poland

Capacity:
50kW / 100kWh
KAC50DP-BC100DE





Project Cases - Self Consumption

Location:
Poland

Capacity:
50kW / 100kWh
KAC50DP-BC100DE
STS100D



Project Cases - Dynamic Control

Location:

**VONDOM-Local furniture manufacturer,
Beneixida, Spain**

Capacity:

200kW / 800kWh

KAC50DP-BC100DE

STS250



Project Cases - Self Consumption

Location:
Spain

Capacity:

2.125 MW / 1.97MWh

10 units of 2*KAC50DP-BC197DE

11 units of G125KT7





Project Cases - Time of Use

Location:

Spain

Capacity:

100kW / 197kWh

2*KAC50DP-BC197DE

Project Cases - Dynamic Control (VPP)

Location:

Murska Sobota, Slovenia

Capacity:

1MW / 2MWh

10 units of 2*KAC50DP-BC197DE

No connected loads but installed as part of the local VPP project

Discharge to the grid at the evening to ease the energy peak



Project Cases - Self Consumption

Location:

Agricultural land, Starnberg, Germany

Capacity:

100kW / 197kWh

2 units of KAC50DP-BC197DE

AC-coupled energy storage system integrated into the customer's existing PV system, monitored by a third-party EMS platform



Project Cases - Self Consumption

Location:

Agricultural land, Starnberg, Germany

Capacity:

100kW / 197kWh

2 units of KAC50DP-BC197DE

Covering the daily power demand of agricultural machinery and equipment, as well as supplying electricity to nearby livestock feed supermarkets and related facilities.





Project Cases - Self Consumption

Location:

Pharmaceutical company, Walldorf, Germany

Capacity:

100kW / 107kWh

G50KT + KAC50DP-BC107DE2

AC-coupled energy storage system integrated into the customer's existing PV system, monitored by a third-party EMS platform



Project Cases - Self Consumption

Location:

Restaurant, Bamberg, Germany

Capacity:

50kW / 100kWh

KAC50DP-BC100DE

Project Cases - Peak Shaving

Location:

Meat Processing Factory, Guijuelo, Spain

Capacity:

600kW, 1.2MWh

12 units of KAC50DP-BC100DE



Project Cases - Dynamic Control

Location:

Communicatieweg 29 Mijdrecht, Netherlands

Capacity:

100kW / 200kWh

2*KAC50-BC100DE

Third party EMS with manual control





Project Cases - Peak Shaving

Location:

Prebold, Slovenia

Capacity:

150kW, 600kWh

Project Cases - Self Consumption

Location:
Madignano, Italy

Capacity:
400kW / 788kWh
4 units of 2*KAC50DP-BC197DE



Project Cases - Time of Use

Location:

Fish Farm, Zhmerynka, Ukraine

Capacity:

200kW / 394kWh

2 units of 2*KAC50DP-BC197DE





Project Cases - Time of Use

Location:

Nova Polom, Czech Republic

Capacity:

100kW, 200kWh



Project Cases - Self Consumption

Location:
Cluj Napoca, Romania

Capacity:
1MWh
5 units of 2*KAC50DP-BC197DE



Project Cases - Dynamic Control

Location:

Mohács, Hungary

Capacity:

100kW / 200kWh

2 Units of KAC50DP-BC100DE + EMS01D

AC-coupled

Stable power supply for health facility





Project Cases - Dynamic Control

Location:
North Macedonia

Capacity:
700kW / 1.4MWh
14 Units of KAC50DP-BC100DE with 1 EMS01D



Project Cases - Energy Independence (off-grid)

Location:

Khmelnyskyi district, Vinkovci, Ukraine

Capacity:

100kW / 394kWh

2*KAC50DP-BC197DE + STS100D

Expanded from 197kWh to 394kWh for full off-grid capability

Scalable design allowed for post-installation capacity doubling

100% grid independence for milk farm operations





Project Cases - Self Consumption & Peak Shaving

Location:

Hansen Village, Nove, Ukraine

Capacity:

200kW / 400kWh & 1MW / 1.72MWh

2*KAC50DP-BC100DE + 2*STS100D for backup power during outages

8*KAC125DP-BC215DE for peak shaving and cost reduction

Dynamic energy solutions for a resilient community



Project Cases - Energy Independence (off-grid)

Location:

Oaxaca, Mexico

Capacity:

400kW / 600kWh

8 units of KAC50DP + 6 units of BC100DE + 2 units of STS100

Off-grid system running for over 500 ppl on the island

01

Case - Self Consumption



Project Cases - Self Consumption

Location:

Milanovo, Bulgaria

Capacity:

250kW / 494kWh

5*KAC50DP + 2*BC197DE + BC100DE

Reduce utility cost for local dairy factory Parshevitsa



Project Cases - Self Consumption

Location:

Ruse, Bulgaria

Capacity:

3*KAC125DH-BC233DE

Charging from AC-couple installation

Reduce utility cost for local butchery Borimes Ltd.



Project Cases - Self Consumption

Location:

Lovets, Bulgaria

Capacity:

125kW / 215kWh

KAC125DH-BC215DE

Charging from AC-couple installation





Project Cases - Self Consumption

Location:

Dobri Dol, Bulgaria

Capacity:

250kW / 494kWh

5*KAC50DP + 2*BC197DE + BC100DE

Reduce utility cost for local milk farm





Project Cases - Self Consumption

Location:

Bykev, Czech Republic

Capacity:

100kW / 200kWh

2*KAC50DP-BC100DE + STS100

Reliable backup power for cardboard factory

Project Cases - Self Consumption

Location:

Bakov nad Jizerou, Czech Republic

Capacity:

50kW / 197kWh

KAC50DP-BC197DE

Reliable solar solution for energy-intensive veterinary surgery and indoor pool heating





Project Cases - Self Consumption

Location:

Rodnow, Poland

Capacity:

50kW / 100kWh

KAC50DP-BC100DE + STS100D

Integrated with existing PV and diesel generator

Decreased grid dependency with seamless backup for entire bakery

Optimized diesel generator usage through STS integration



Project Cases - Self Consumption

Location:

Deszk, Hungary

Capacity:

250kW / 500kWh

5 Units of KAC50DP-BC100DE + STS250

On/off grid switching for regional blackouts

Stable power supply for water pumps, help with agri-PV





Project Cases - Self Consumption

Location:
Bulgaria

Capacity:
100kW / 394kWh
2 units of KAC50DP-BC197DE



Project Cases - Self Consumption

Location:

Molding Factory, Lichtenstein, Germany

Capacity:

100kW / 200kWh

2 units of KAC50DP-BC100DE



Project Cases - Self Consumption

Location:
Murovane, Ukraine

Capacity:
100kW / 394kWh
2 units of KAC50DP-BC197DE + EMS01D

Project Cases - Self Consumption

Location:
Verona, Italy

Capacity:
100kW / 100kWh
40kW on-grid inverter with KAC50DP-BC100DE





Project Cases - Self Consumption

Location:

Casaleggio vappio, Italy

Capacity:

100kW / 197kWh

2*KAC50DP-BC197DE

Project Cases - Self Consumption

Location:

Milk farm, Chernihivskyi region, v. Tarasa Shevchenka, Ukraine

Capacity:

200kW / 394kWh

2 units of 2*KAC50DP-BC197DE + STS250D



Project Cases - Self Consumption

Location:

Petrol station with car wash, Chromna, Poland

Capacity:

50kW / 100kWh

KAC50DP-BC100DE + STS100D



Project Cases - Self Consumption

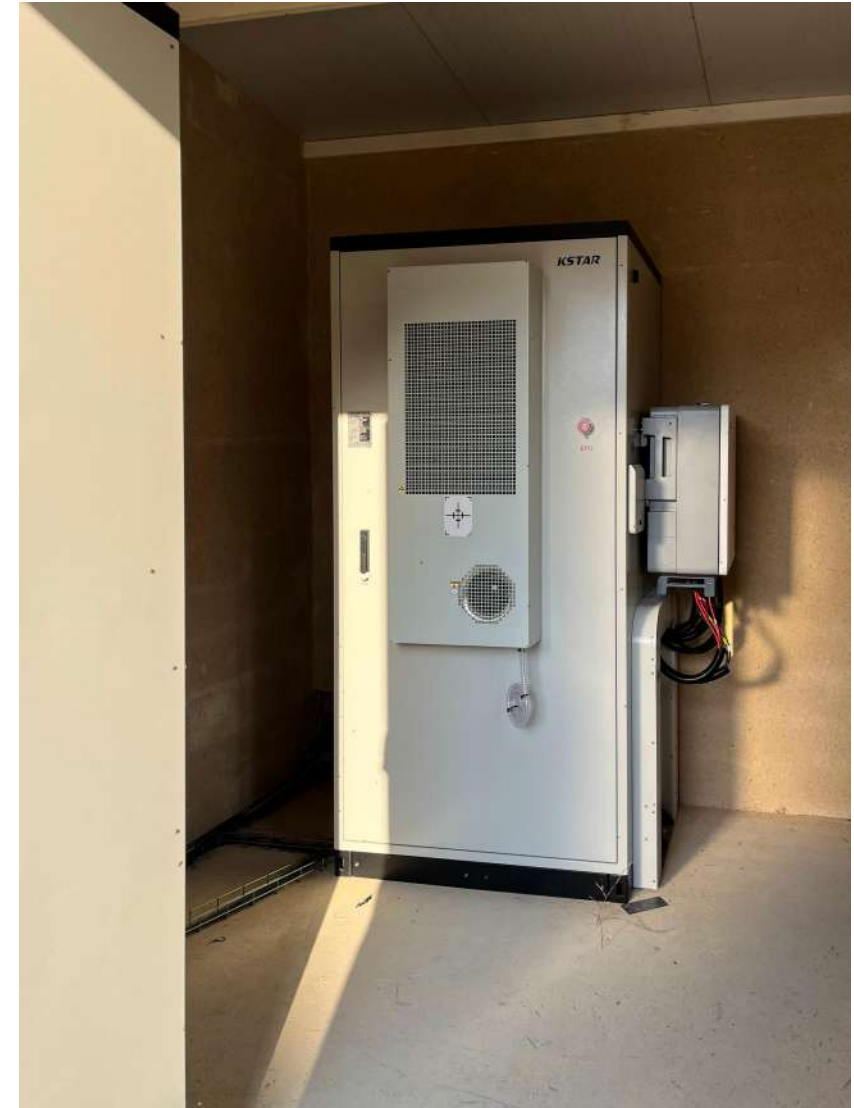
Location:

Valladolid, Spain; Agrivoltaics with water pump and diesel generator

Capacity:

50kW / 100kWh

KAC50DP-BC100DE + STS100D



Project Cases - Self Consumption

Location:

Esztergom, Hungary

Capacity:

250kW / 500kWh

KAC50DP-BC100DE + STS100D

Continuous off-grid operation for regional blackouts

Stable power supply for Zen Temple

Zero export to grid



Project Cases - Self Consumption

Location:

Andalucía, Spain

Capacity:

100kW / 197kWh

2*KAC50DP-BC197DE

Reduce electricity bill for project owner





Project Cases - Self Consumption

Location:
Azerbaijan

Capacity:
100kW / 396kWh
2 units of KAC50DP-BC197DE + STS100D

Project Cases - Self Consumption

Location:

Bukovel ski-resort, Polianytsa, Ukraine

Capacity:

100kW / 197kWh

2*KAC50DP-BC197DE



Project Cases - Self Consumption

Location:
Brescia, Italy

Capacity:
50kW / 100kWh



Project Cases - Self Consumption

Location:

Factory and house mixed, Brescia, Italy

Capacity:

50kW / 100kWh

Mainly used for charging EV





Project Cases - Self Consumption

Location:

Lithuania

Capacity:

100kW, 197kWh

2*KAC50DP-BC197DE



Project Cases - Self Consumption

Location:
Italy

Capacity:
50kW / 100kWh



Project Cases - Self Consumption

Location:
Badajoz, Spain

Capacity:
150kW / 300kWh (Retrofit)





Project Cases - Self Consumption

Location:

Gabrovo, Bulgaria

Capacity:

100kW / 197kWh

2*KAC50DP-BC197DE



Project Cases - Self Consumption

Location:

Magánkórház, Hungary (Hospital)

Capacity:

100kW / 200kWh

STS100 (on/off grid switching)





Project Cases - Self Consumption

Location:

Varna, Bulgaria

Capacity:

125kW / 215kWh

KAC125DH-BC215DE



Project Cases - Self Consumption

Location:

Westhoek, Netherlands

Capacity:

50kW / 100kWh

Project Cases - Self Consumption

Location:

Olive Oil Mill, Ignazia BN, Italy

Capacity:

50kW / 100kWh



Project Cases - Self Consumption

Location:

Kazanlak Kazanlyk, Bulgaria

Capacity:

50kW / 100kWh



Project Cases - Self Consumption

Location:

2*2kW AC Charge Stations, Turkey

Capacity:

50kW / 100kWh





Project Cases - Self Consumption

Location:
Dunavecse, Hungary

Capacity:
150kW / 300kWh

02

Case - Peak Shaving



Project Cases - Peak Shaving

Location:
Poland

Capacity:

50kW / 100kWh

BluE-20KT-M1*2 + KAC50-BC100DE + STS100D

STS100D integrates with diesel generator for off-grid backup

Weak grid causes voltage rise on high export and drops on high import

Battery charges during excess generation and discharges during peak grid demand





Project Cases - Peak Shaving

Location:
Žirovnica, Slovenia

Capacity:
50kW / 100kWh



Project Cases - Peak Shaving

Location:

World Expo Park, Shanghai, China

Capacity:

50kW / 100kWh

03

Case - Time of Use



Project Cases - Time of Use

Location:

Rome, Italy

Capacity:

100kW / 400kWh

2 units of KAC50DP, 4 units of BC100DE

With 1 unit EMS01D





Project Cases - Time of Use

Location:

Chelmiec, Poland

Capacity:

50kW / 100kWh

04

Case - Dynamic Control



Project Cases - Dynamic Control

Location:
Radawa, Poland

Capacity:

150kW / 300kWh

Integrate with existing automatic systems in the facility



Project Cases - Dynamic Control

Location:
Poland

Capacity:
100kW / 300kWh
Integrate with existing automatic systems in the facility





Project Cases - Dynamic Control

Location:

Geldermalsen Apple Farm, Netherlands

Capacity:

200kW / 400kWh

Project Cases - Dynamic Control

Location:

Geldermalsen, Netherlands

Capacity:

250kW / 500kWh





Project Cases - Dynamic Control

Location:
Schiedam, Netherlands

Capacity:
150kW / 100kWh

Project Cases - Dynamic Control

Location:

**Charging stations and restaurants on the highway,
Hatvan, Hungary**

Capacity:

50kW / 100kWh





Project Cases - Dynamic Control

Location:
Netherlands

Capacity:
150kW / 300kWh

Project Cases - Dynamic Control

Location:
Ospel, Netherlands

Capacity:
150kW / 300kWh





Project Cases - Dynamic Control

Location:
Cegled, Hungary

Capacity:
50kW / 100kWh

Project Cases - Dynamic Control

Location:
Vessem, Netherlands

Capacity:
100kW / 200kWh



Project Cases - Dynamic Control

Location:
Helmond, Netherlands

Capacity:
50kW / 100kWh



Generating Superior Solutions for Energy and More.



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