



Release – solar and battery rental

Quick, flexible and affordable





General Overview of Scatec



Scatec provides renewable energy solutions in high growth markets

- 3.5 GW of solar, wind and hydro in operation and under construction

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Leaders in ESG

- ESG is an integrated part of our business
- Dedicated E&S resources for long term approach and impact
- Solid Environmental and Social Management System covering all projects

A competitive advantage

- Attracts projects and business partners
- Reduces risks and strengthens probability of successful completion of projects
- Becoming imperative to qualify for and win new projects

Top rating from independent rating agencies

Rating summary: Low risk



#1 of 450 – Utilities #1 of 48 – Renewable power producers



Rating: A- (excellent) Status: Prime Prime threshold: C+



Rating: AAA (top rating) Highest scoring range relative to global peers

CDP

Rating: A Carbon Disclosure Project Top score



Rating: A+

#1 in ESG reporting among the 100 largest companies on Oslo Stock Exchange

All our projects must adhere to the IFC PS and Equator Principles





Scatec, the ideal renewable energy partner

=+

BESS

Multi-technology integrator wheeling or behind-the-meter

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Hydro, wind

solar PV

(+ floating PV)

Hydrogen

H₂

Track record delivering challenging projects

Flexible lease solution - **Release**



Introduction to Release



Release is flexible, simple and innovative

Rental solar and storage plug-and-play





Redeployable, modular and scalable Pre-assembled and containerised Quickly installed (1-2 MW per week)



"All-in-One" rental contract, including Battery
energy Storage
You only pay if it works
Pre-financed – option to extend or buy-out

Innovative



Short-term rental possible

Utility-scale - only movable solar with trackers and bi-facial modules

Integrated with existing infrastructure and monitored 24/7

Link to the presentation video



Release – making solar simple





Financial comparison of Release vs traditional project structures

Release payment structure

- Mobilization fee at contract signing
- Fixed rental fee paid monthly (no indexation) based on PV capacity installed





Improving on the IPP model

Key characteristics	IPP	Release
Location	Fixed to one site	Can be moved from site to site
Plant size	Fixed	Can be scaled up or down
Contract duration	FixedFlexible – from 5 years and onwards	
Guarantee requirement	Sovereign guarantee covering full contract	1-year LC
Price	Fixed tariff with inflation adjustment for full contract termUpfront fee; Rental decreasing every 5 years; Purchase option 1 EUR in Y15	
Time to installation	3-5 years from initial discussions 6-9 months from initial discussion	
Financing method	Project financing (long negotiations, many contracts)	Equity financed, 1 contract



What We Deliver

- Transport of the PV plant and BESS to nearest port.
- Full installation of equipment at site.
- Performance and availability guarantees.
- Routine maintenance and repairs.
- Global 24/7 monitoring and Scada available also for the Customer.
- Weather and production prediction.
- Training for local power team to manage dayto-day maintenance.
- Release compact substations to step up from 800V to Customer desired voltage.

Typical Customer Scope

- Perform customs clearance for equipment.
- Ensure land is made available and is free of any occupation.
- Ensure any required site preparation is performed.
- Obtain necessary permits, with the support of Release.
- Perform day-to-day maintenance tasks on site (module cleaning, vegetation control, simple electric works).
- Assist in local accommodation, identifying local workers as required.
- Local contractors for crane(s) and machinery as required





Technical Overview



Technical specifications



PV Modules

We use the latest PV technology: bifacial modules to optimise performance.

- Supplier: JA Solar (or similar Tier 1)
- Power Class: 540+ Wp
- Technology: Mono PERC, double glass, framed
- Warranty: 12-year product warranty + 30year linear power output warranty

Trackers



The tracker structure is made from corrosion resistant galvanised steel with automatic stowing to safe angle under strong winds, using the same tracker control used in several of our utility scale projects.

- Supplier: Cambridge Energy Partners
- Model: Release Montaro 1P
- Technology: Single-Axis, East-West tracker. -45 to +45 degrees with back-tracking
- Wind speed tolerance: 44 m/s
- Slope tolerance: 15 %



Inverters

We use string inverters with less downtime and easy replacement.

- Supplier: Sungrow (or similar tier 1)
- Power: 350 kWac (@30°C)



LVAC Combiner Box Standard AC Combiner Box (integrated within the compact substation), Supplier: Various. Assembly and testing by Rubicon



Compact Substation Per 1000 kW block 6.6-33 kV Supplier: Power Transformers or similar



Our Montaro re-deployable tracker

- In -house assembly line in Spain
- Stock available of trackers and PV modules to be deployed immediately
- Compact transport configuration optimized to fit into containers (216 kWp per container)







Assembly in Nomad factory Source: Release

release

BY SCATEC

Transport configuration

The world's first movable solar tracker

30-40 % higher yield vs other movable systems



Energy Production (example) kWh/ kWp/ yr





Solar PV + storage: Further fuel savings, engine optimisation and system stability

Battery storage (BESS) increase fuel savings and support overall system

- Solar power dispatchable during evening/night
- Support to the existing generators and power system
- Generators running at more efficient load
- Provides spinning reserve and thus allows engines to be turned off during the day
- Enables a larger solar PV system compared to a PV-only solution
- Ultimate choice of supplier and BESS technology subject to its functionalities in the project







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What Drives the Sizing of a PV + BESS System?

There is no "perfect" size for each project but rather a balancing act between techno-economic parameters to provide customers the highest renewable energy penetration while targeting the lowest possible LCOE



Illustrative example of PV and BESS incremental modelling for blended LCOE. Source: Release

Power system studies capabilities are critical to ensure stable operation

Behind the meter

We can perform grid transient and protection studies on the network to ensure reliable power supply with intermittent loads and generation, including seamless islanding to alleviate outages or load shedding with batteries

Front of the meter power generation

We analyse solar impact to the transmission, distribution and production, including batteries to firm and stabilise production and support the grid with ancillary services and ensure compliance with grid codes.





Our Hybrid Control System ensures an optimal dispatching of Release power

We provide a customized Power and Energy Management System to control and optimize dispatch of Release and existing equipment in real time

Our automated system manages, learns and forecasts information:





Grid connected projects

- Automatic and seamless transition between arid connected and islanded operation
- Provision of ancillary services
- Energy optimization

Off-grid projects

- Balancing of real and reactive power at millisecond level
- Control of voltage and frequency
- Solar self
- consumption maximization
- Grid forming and synchronization from batteries and/or gensets







Remote Monitoring

Through Scatec Global Control and Monitoring Centre (CMC) in Cape Town, South Africa

Scatec offices in Cape Town, South Africa hosts our world-class CMC facility. The CMC is active 24/7 and, thanks to Release design and communication hardware and software, we will be able to detect any faults or alarms in real time

Each Release plant is monitored alongside Scatec's 2GW of operating plants

Greater monitoring and diagnostic analysis will provide invaluable data for designing future large scale deployment

Monitoring of up to 1s resolution - critical to optimising power performance and fault detection







Project Examples and Case Studies



Release Leasing Projects

	Name/ Location	Capacity	Client	Status	Comment
	Guider and Maroua, Cameroon	Phase 1 – Guider: 17.8 MWp PV + 10 MWh BESS Phase 2 – Maroua: 18.5 MWp PV + 10 MWh BESS	ENEO National utility	Phase 1 – PV plant commissioned in Q2 2022 Phase 2 and BESS phase 1 under construction – Q4 2022	First utility Scale Release project, standard five-year leasing agreement with Eneo
	RhYNO, South Africa	600 kWp PV	Anglo- American platinum mine	commissioned in Q1 2022	Short-term rental for powering a green hydrogen project at the mine
Contraction of the second seco	IOM Humanitarian Hub, South Sudan	700 kWp PV and 1.3 MWh BESS	IOM International Organisation for Migration	commissioned in Q2 2020	Release plant integrated with diesel gensets under rental agreement. Providing 80-90 % of the power to the hub
	Mexico	8.5 MW PV	Torex Gold mining company	Under construction - Q3 2022	Leasing contract
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RELEASE to ENEO, Cameroon: Utility scale project delivered in < 6 months

- 36 MW PV; 20 MWh storage solution
- Delivered jointly with IFC
- Rental agreement signed August 2021; first power delivered 4 February 2022







The first project, with a capacity of 17 MWp is in operation since June 2022, while the second with a capacity of 18 MWp, as well as the 10MWh BESS plants for each project, are under construction.

Key project characteristics

- Pre-financed: no lengthy financing process

- Guarantees pre-approved: no government guarantee required

- One single agreement: 5-year initial commitment, can be terminated thereafter

- Competitively priced compared to existing IPP offers







The Release team at work

Case study: IOM MALAKAL - South Sudan

Scatec commissioned a combined solar and storage plant for the Humanitarian Hub in Malakal, managed by International Organization of Migration. The hub hosts more than 34 organisations involved with humanitarian projects. The hybrid system will cover up to 90 % of the Hub's energy demand with solar energy, reduce costs, pollution and carbon emissions, and provide a more reliable and robust energy supply.

	CO_2 emissions reduced by 80-90 %
Impact	Initial cost reductions of ~20 %*
	A robust and reliable energy supply
	Hybrid solar PV and battery solution integrated with existing diesel generators
lechnical solution	Guaranteed plant performance
	24/7 monitoring, maintenance support
Commercial structure	A 3-year initial leasing contract Solar energy on a monthly invoice In case of extension beyond 10 years, the plant is
	transterrea to IUM



System specifications				
Solar DC capacity	700 kWp			
Mounting structures	Fix-tilt; 15°			
Battery system	1368 kWh Tesla Power Pack 2			
Diesel generators	Synchronised the existing generators			
Control system	Tesla Micro grid Controller			





Release & H2 : Rhyno Project Flagship Solar PV-for-Green-Hydrogen

AngloAmerican Platinum - Engie, South Africa

- 600 kW short-term rental
- Chosen as supplier to deliver clean energy for pilot green-hydrogen mining at the Mogalakwena mine for heavy vehicles
- Integrated with the electrolyser
- Mechanical Completion 20/3/2022.
- Hot commissioning and Testing pending interconnection
- Lease running from 30/3/2022
- Flagship project in providing sustainable mining solutions





www.releasesolar.com

We finance – you lease

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