

BROCHURE

MODULYS XM

Up to 2 MW



When **energy** matters

 **socomec**
Innovative Power Solutions

MODULYS XM

Ultra modular UPS for total peace of mind – up to 2 MW

Because behind every customer need is an engineering answer. Each expectation shaped the design of **MODULYS XM** — from reliability to scalability, flexibility, and lasting performance.



Proven ultimate reliability

Like a parachute for critical power, MODULYS XM is built with no compromises.

With power modules certified for a 1,000,000-hour MTBF, a distributed control system that removes any single point of failure, and heavy-duty connectors ensuring consistent performance, MODULYS XM is engineered for absolute reliability in every operation.

Proven minimum MTTR

True reliability isn't only about preventing failure — it's about restoring full performance instantly when needed.

For this reason, MODULYS XM is engineered to make it happen in less than two minutes — and as safe — as possible.

Its unique on the market, completely risk-free and automatic hot-swappable process - third party certified, the MTTR is reduced to the absolute minimum.

Never-ending flexibility

Once maintenance becomes effortless, flexibility follows naturally.

MODULYS XM's architecture allows 100+ on-site configurations, different cabling topology, and adaptable short-circuit performance, delivering the same reliability whatever the environment constraint.

Long-term durability

Because true peace of mind isn't just about today — it's about knowing your system will stay ready for whatever comes next.

With the exclusive Forever Young concept, MODULYS XM keeps your investment performing like new for 20+ years: guaranteed compatibility, full access to parts and expert support, and the ability to swap ageing components or upgrade to future high-efficiency power modules — all without shutdown.

1,000,000
hour MTBF
third-party certified

2^{min}
restore
Safely

100+
configurations
allows

20+
years
performance
like new

System-wide proven reliability

Unique functionality beyond market standards - that's proven!



Rugged and totally independent power modules

1,000,000 hours MTBF third-party certified



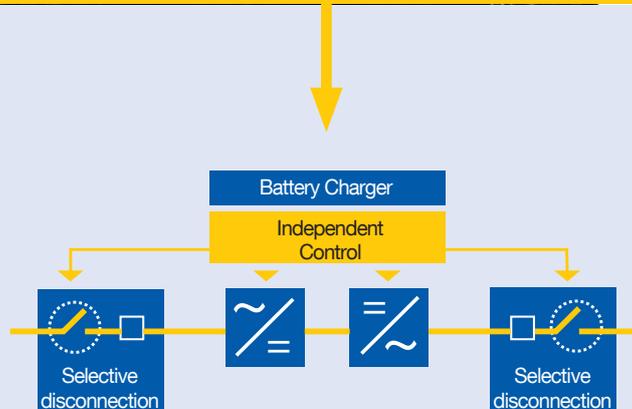
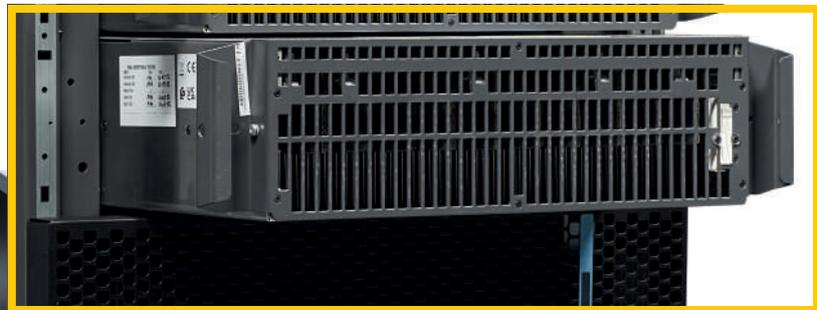
4 times higher than the market standard, reducing failure rates by up to 75% and ensuring lower total cost of ownership.

+500 mating cycles

Heavy duty connectors – IEC 60512-9-1 certified.

Electrical segregation

Upstream and downstream galvanic isolation prevents fault propagation – your critical load is always protected.



Certified system robustness

x2 immunity certified

Enhanced robustness thanks to surge and burst resistance that is 2 times higher than EN62040-2 standard levels.

Seismic resistance (certified)



Kema seismic ✓

Upper level of robustness thanks to UCB 97 zone 4 compliance.

Ultra-robust auxiliary mains bypass

MTBF > 10,000,000 hours – certified reliability for maximum protection.

Fault-tolerant architecture

Fully redundant

Power availability in all circumstances thanks to totally independent power modules. Configurable from N+1 to N+x (power & battery) for scalable redundancy. Selective module disconnection with galvanic isolation ensures safe fault containment.

Distributed control

No single point of failure thanks to internal parallel and load sharing management (no centralised control board). Redundant parallel bus connection (ring configuration).

Hybrid bypass structure

Ultimate resiliency thanks to fully sized, centralized, autonomous and segregated static bypass - together with distributed modules bypasses.



Application availability restored in 2 minutes

By you, safely, and without technical knowledge

01

“Just a box to move”

- Full hot-swap.
- Complete front access.
- Electronic-free cabinet: no electronics fixed to the enclosure, everything plug-in, complete access to all components.

02

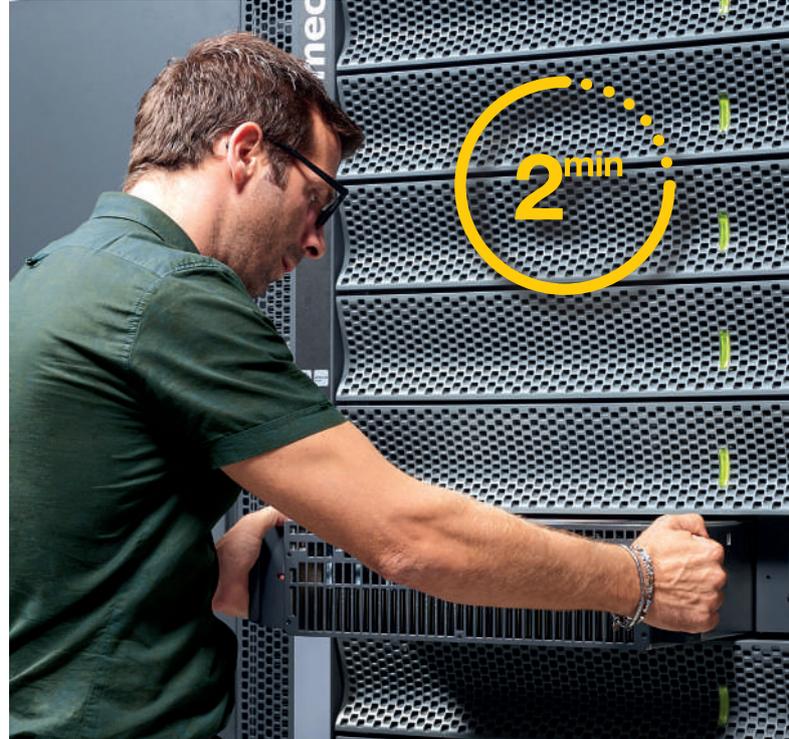
“Just unplug + plug-in” TÜV SÜD ✓

- Add or change power modules in only 2 minutes.
- By you, safely, and without technical knowledge engineering expertise required. No need to be concerned about firmware or parameter synchronisation.
- Fully automatic and third-party certified procedure – with firmware auto-alignment, self-configuration and self-testing for verified safe operation.
- Certified impossibility of electrical arcing for safe intervention.

03

“Just proceed - protection is ON, your application is protected”

- Fully protected load - always protected in double conversion mode with no need to switch on bypass.



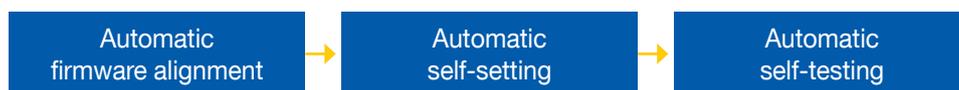
Risk-free maintenance

When eliminating human error becomes a reality

Full front access

- All components securely enclosed within plug-in boxes.
- **Hands-outside servicing:** move boxes without direct contact with live electronics, ensuring error-free operations.
- Third-party certified process – safe at every step.
- Off-powered connection prevents electrical arcing.

Minimal human involvement



Watch the video!



What's more? First-time-fix intervention

Thanks to digital services, you can now dramatically reduce your MTTR.

- Detect problems in real time thanks to 24/7 monitoring of your UPS via the SoLive mobile application, or let our experts do it for you via our remote monitoring service.
- Act in record time and reduce the number of on-site interventions thanks to remote diagnostics.
- Remote maintenance reduces transport costs and environmental impact.

The only UPS you won't need to replace

Engineered to last 20+ years

Your UPS can be a keeper

By choosing equipment with an extended lifetime, or better still, equipment that's equal to the lifetime of your application, you can not only reduce your costs and avoid stress during the transition, but you can also make a positive impact on the environment. By designing a product that lasts, on average, the entire life of your installation, Socomec is committed to your priorities.



I always dread the moment when a UPS arrives at the end of its life and needs replacing. It's not only the financial impact of a new UPS, but it's also the potential risks associated with replacement.

Data Centre facility manager



How can we prove that?

Lifetime calculation and validation

Declaration and data evidence



MODULYS XM Lifetime calculation

Components lifetime calculation in:

- Data Centre conditions
- Worst-Case conditions

CAD simulations

- Electrical
- Thermal



Third party validation tests

- Robustness tests
- Stress test:
 - From 5° C to 110° C ambient temperature
 - 100 % load
- Fast aging test (Duration Test):
 - 65°C ambient temperature
 - 100% load
 - 240 days



MODULYS XM Lifetime declaration

- 25+ years
Data Centre conditions (Ashrae Environmental Classes for Data Centres)
- 20+ years
Worst Case conditions

Forever young

Performing like new for 20+ years? Yes - thanks to the ability to modernise the MODULYS XM already operating (e.g. with super high-efficiency power modules). This way, you can keep your system aligned with all technological advancements. 20-year guaranteed compatibility with the upcoming functions and power modules.

Forever Young ensures longevity of your investment and sustainability.



What's more? Proven efficiency & sustainability – without compromise

- Energy Saver mode: maximises efficiency at partial load while maintaining full protection.
- 20+ years lifecycle thanks to the Forever Young concept.
- 75% fewer replacements with exceptional MTBF (1,000,000 h certified).
- Up to 77.9% recyclability potential & ISO 14001 eco-certified manufacturing.

97.5%
efficiency

in double conversion



99%
efficiency

in Smart conversion mode



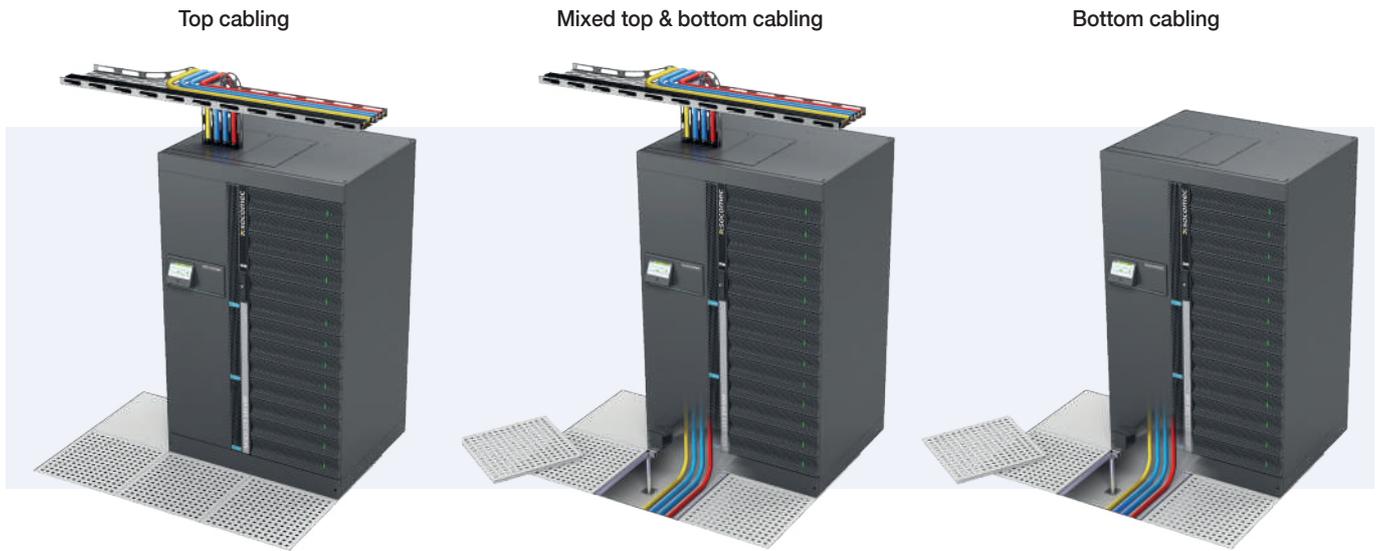
Never-ending flexibility

100+ configurations - make your UPS as unique as you are

MODULYS XM can be tailored to your needs, whether in an existing setup or a new installation. Options may need to be chosen during the initial configuration, but most options can be added at the installation site effortlessly.

Adaptable system and simplified integration according to infrastructure requirements

With the same system solution, MODULYS XM is able to meet every cabling need. Top cabling? Bottom cabling? A mix of top-bottom cabling? MODULYS XM is ready!



Compatible with any grounding system: TN-S, TN-C, TT, IT.

100+ configurations possible to personalise your UPS

Thanks to the combination of more than 25 pre-engineered options, you have the flexibility to customise your UPS system – even last minute on-site – ensuring that it precisely matches your specific needs.

To personalise the UPS architecture

- Power module to scale the power or increase system redundancy
- Bypass module to increase short-circuit capability or bypass redundancy
- Lithium Battery
- Lead Battery modular hot swap solution
- Lead Battery high capacity solution
- Automatic external synchro interface
- Cold-start

To connect the UPS and access digital services

- IoT gateway for Socomec cloud services and the SoLive UPS mobile app
- Touch Screen Remote Mimic Panel
- WEB/SNMP Ethernet interface
- Programmable dry-contact interface
- Modbus TCP interface
- Profibus coupler interface
- Environmental monitoring device

To adapt the UPS to the environment

- Seismic kit
- Top roof IP21 protection kit
- Interconnection kit for common mains
- PEN kit for TN-C grounding system
- External battery temperature sensor
- Environment temperature and humidity sensor
- Top-cabling cabinet
- Trunking BusBar interface
- Cabling kit for top-cabling
- Top-air exhaust kit
- Cover kit for system empty slot
- Lifting bolts

High short-circuit solution on-demand

The **MODULYS XM** maintains compatibility even in situations where the short-circuit current exceeds its standard rating, demonstrating robustness and reliability when handling unexpected abnormal events and electrical loads.

System short circuit performance

Short circuit current withstand (I_{cw})  **65 kA_{RMS}**

Conditional short circuit current (I_{cc}) 

What's more? Flexible Bypass short circuit capability

The MODULYS XM's short circuit capability can be increased on demand by simply inserting an additional plug-in bypass module into the system's empty slot.



15 kA_{PK}



28 kA_{PK}

+ Bypass plug-in module



28 kA_{PK}



40 kA_{PK}

The bypass short-circuit capability is the maximum short-circuit current that the bypass can withstand without failure.



Compatible with Li-Ion battery technology

Ensuring the highest level of availability and reliability while reducing the Total Cost of Ownership, MODULYS XM - combined with the Socomec lithium offer - provides you with an optimised package to meet your installation constraints and free up space for revenue generating equipment.



Optimised footprint

More space for servers and IT.



High working T°

Save CAPEX and OPEX by reducing the cost of cooling.



Reduce your TCO by up to 50%

No battery replacement for up to 15 years even in high cycling conditions.



Eco friendly

Sustainable solution with lower environmental impact over the life cycle vs VRLA.

Expert services

Manufacturer's maintenance for trouble-free UPS operation

Our service contracts are tailored to customer needs, taking into account individual operational constraints, business processes and the unique level of criticality associated with specific applications. Whatever the issue, our internal escalation process gives us access to different levels of expertise to respond as quickly as possible.

Our service teams are fully trained and provided with certified equipment in order to deliver the highest levels of expertise.

How does it work?

SILVER

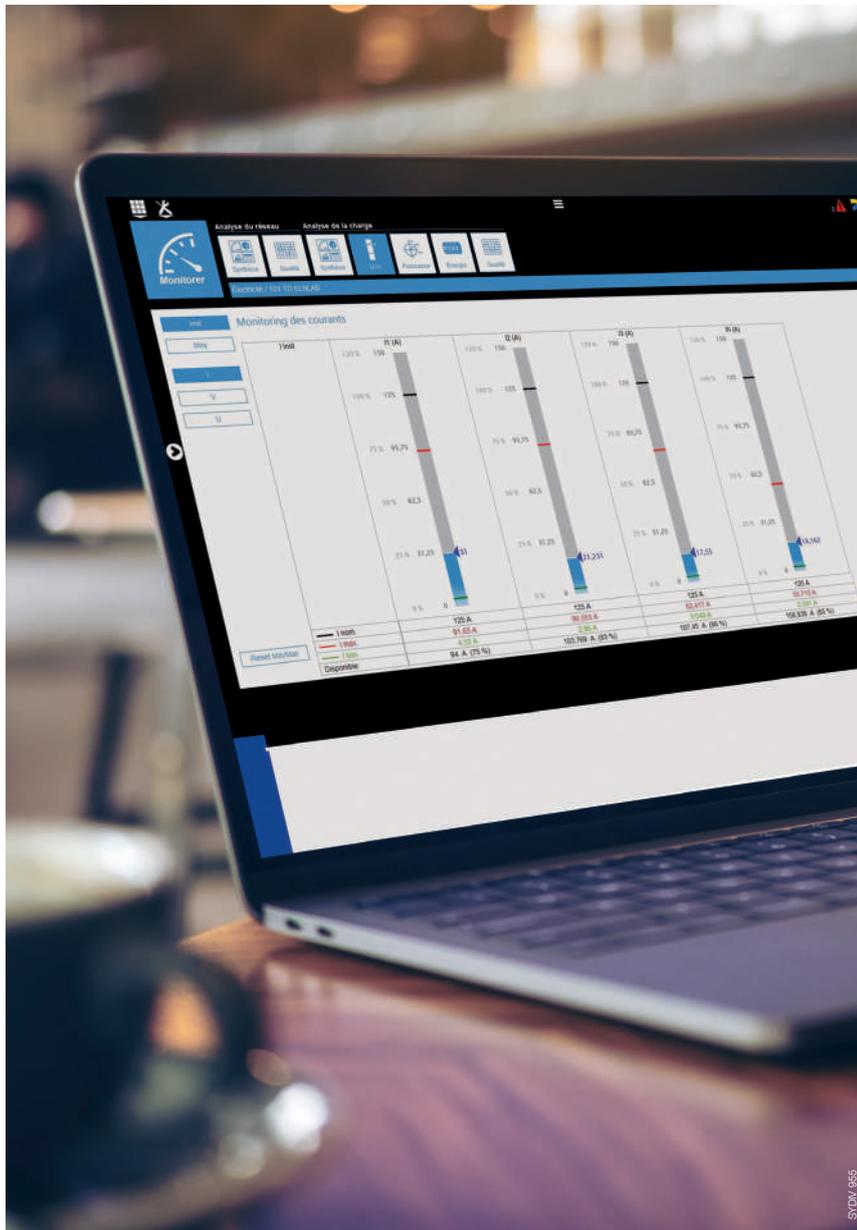
The ideal plan for **preventive maintenance**: inspection visits, access to the Socomec office hours hotline (8x5) and response times within 24 hours.

GOLD

Prevent and cure: this package includes everything from the Silver plan, and also covers the cost of responding to breakdowns.

PLATINIUM

The PLATINIUM plan includes spare parts. For the most critical applications, the PLATINIUM+ plan comes with a 6 hour response time and 24/7 hotline.



Optimise your experience thanks to connectivity

SoLive

UPS monitored anywhere, anytime (cloud)

- Mobile App to monitor the UPS
- Overview of all installed units
- Real-time alarms and notifications
- Dashboard with operating parameters

SoLink

Proactive acknowledgement

- Alarm directly notifies the expert
- Proactive alarm check by the expert
- Expert calls and briefs the end user

Remote troubleshooting

Remote troubleshooting

- Quick intervention via remote access
- Immediate diagnosis and root cause analysis
- Only one on-site visit is required

Technical data

MODULYS XM				
Architecture	modular standalone		modular units to parallel	
Parallelability	-		up to 6 units	up to 4 units
System capability	50 to 250 +50 kVA/kW	100 to 600 + 50 kVA/kW	50 to 1800 kVA/kW	100 to 2000 kVA/kW
Module power	50 kW (up to 40° ambient temperature)			
Number of power modules	1 to 6	2 to 13	1 to 6	1 to 10
Input / output	3/3			
INPUT				
Voltage frequency	400 V 3ph+N (340 V to 480 V) 40/70 Hz			
Power factor / THDI	> 0.99 / < 1.5%			
OUTPUT				
Power factor voltage	1 (according to IEC/EN 62040-3) 380/400/415 V ±1% 3ph+N			
Frequency	50/60 Hz (configurable) ±0.1% free running			
Voltage distortion	< 1% (linear load), < 3% (non-linear load according to IEC 62040-3)			
Overload	125% for 10 minutes, 150% for 1 minute			
BYPASS				
Voltage	rated output voltage ±15% (configurable from 10% to 20%)			
Frequency	50/60 Hz ±2% (configurable for GenSet compatibility)			
Bypass short-circuit capability (ITSM)	up to 28 kA _{pk}	up to 40 kA _{pk}	15 kA _{pk} ⁽¹⁾	21 kA _{pk} ⁽¹⁾
EFFICIENCY (TÜV SÜD VERIFIED)				
Online double conversion mode	97.5%			
Smart Conversion Mode	99%			
SHORT CIRCUIT PERFORMANCE				
Conditional short circuit current (I _{cc}) ⁽²⁾	up to 65 kA _{rms}	up to 100 kA _{rms}	up to 65 kA _{rms} ⁽¹⁾	up to 100 kA _{rms} ⁽¹⁾
Short circuit current withstand (I _{cw}) ⁽³⁾	up to 50 kA _{rms}	up to 65 kA _{rms}	up to 50 kA _{rms} ⁽¹⁾	up to 65 kA _{rms} ⁽¹⁾
ENVIRONMENT				
Ambient temperature	0 °C to 40 °C (15 to 25 °C for maximum battery life)			
Relative humidity	0 to 95% without condensation			
Maximum altitude	1000 m without derating (3000 m max)			
Acoustic level at 1 m	< 57 dBA	< 64 dBA	< 57 dBA ⁽¹⁾	< 62 dBA ⁽¹⁾
SYSTEM CABINET				
Width	600 mm	1200 mm	600 mm	800 mm
Depth	890 mm	950 mm	890 mm	950 mm
Height	1990 mm	1990 mm	1990 mm	1990 mm
Weight (empty cabinet)	253 kg	675 kg	253 kg	380 kg
Degree of protection	IP20			
STANDARDS				
Safety EMC	IEC/EN 62040-1, AS 62040-1 IEC/EN 62040-2 Class C3, AS 62040-2			
Performance	VFI-SS-11 - IEC/EN 62040-3, AS 62040-3			
Environmental	IEC/EN 62040-4			
Product declaration	CE, RCM, EAC, CMIM, UKCA			
POWER MODULE				
Height	3U			
Weight	36 kg			
Type	hot plug-in / hot-swappable			
MTBF	> 1,000,000 hours (calculated and verified)			

(1) For a single unit. (2) According to IEC/EN 62040-1. (3) According to IEC/EN 62040-1 - certified.

Socomec: our innovations supporting your energy performance

1 independent manufacturer

4,800 employees
worldwide

8 % of sales revenue
dedicated to R&D

400 experts
dedicated to service provision

Your power management expert



POWER
SWITCHING



POWER
MONITORING



POWER
CONVERSION



ENERGY
STORAGE



EXPERT
SERVICES

The specialist for critical applications

- Control, command of LV facilities
- Safety of persons and assets
- Measurement of electrical parameters
- Energy management
- Energy quality
- Energy availability
- Energy storage
- Prevention and repairs
- Measurement and analysis
- Optimisation
- Consultancy, commissioning and training

A worldwide presence

13 production sites

- France (x3)
- Italy (x2)
- Tunisia
- India
- China (x2)
- USA (x3)
- Canada

30 subsidiaries and commercial locations

- Algeria • Australia • Austria • Belgium • Canada • China
- Dubai (United Arab Emirates) • France • Germany
- India • Indonesia • Italy • Ivory Coast • Malaysia
- Netherlands • Poland • Portugal • Romania • Serbia
- Singapore • Slovenia • South Africa • Spain • Sweden
- Switzerland • Thailand • Tunisia • Turkey • UK • USA

80 countries

where our brand is distributed

HEAD OFFICE

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100 years
OF SHARED ENERGY

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