

Credentials and Certifications



Focus & Goals:

- » Optimizing the output of solar energy power assets and thereby contributing to a maximized return on investment as a strong and reliable partner for our clients in the PV industry
- » Constantly keen to apply and extend our integrated service approach that creates the basis of customer satisfaction

Highlights:

- » Management of PV plants with a nominal capacity of 2 GWp and a total asset value of ca. € 3 billion
- >> Leading independent O&M service provider in Europe
- Centralized 365/24/7 Control and Monitoring Center
- Active member of Solar Power Europe and Co-Author of Best Practice Guidelines, setting standards for quality

ENcome Energy Performance currently is certified to the following:















The served portfolio includes PV assets of all types, sizes, and technologies





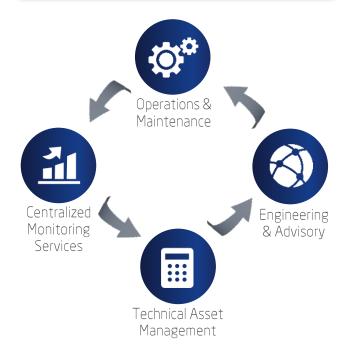
Dedicated technical service provider for PV power plant management



Key Facts

- » Leading independent Pan-European service provider focused on the Operations & Maintenance of PV power plants
- » Current assets under O&M management with a nominal capacity of ~2 Gigawatt as per 2023
- Subsidiaries and representations in all major European PV markets and Australia to cover growth opportunities in APAC region
- More than 120 employees, mainly technicians and engineers who are well trained and educated to ensure the best possible yield for every power plant in any grid environment

Service Offerings



Steady Growth



Average annual growth rate of assets under 0&M management of 23 %.

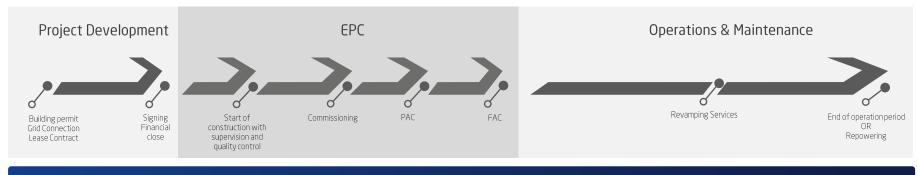
ENcome is a "one-stop-shop" for any technical service over the whole life cycle of photovoltaic power plants



Integrated service approach throughout the entire value chain



Value Chain Photovoltaic Projects: Design-to-Operate



ENcome Service Offering

Due Diligence & Advisory

- » Technical Due Diligence
- » Advisory on technical contract terms
- » Procurement support
- » Bankable yield report

Engineering & Design Services

- » Concept designs
- » Design optimizations
- » Detail design and engineering
- » H&S concepts
- » Retrofits and revamping

Construction Supervision

- » Owners'/Lenders' Engineer
- » Quality control and reporting
- » Site visits and inspections
- » Preparation of defect list
- » Support during commissioning and acceptance

Centralized Monitoring Services

- » 365/24/7 Monitoring
- » Reporting to meet bank and investor criteria
- » Operations IT with self invented software solutions/ APIs

Operations & Maintenance

- » Preventive Maintenance incl. Big Data analysis
- » Corrective Maintenance
- » Optional Services on skilled and innovative basis (e.g. EL test, IV curve, etc.)
- » Revamping / Repowering

Technical Asset Management

- » Technical controlling
- » Evaluation and coordination of improvement measures
- » Coordination and supervision of third party service providers

Design-to-Operate approach ensures consideration of all technical planning aspects towards the whole life cycle of photovoltaic power plants

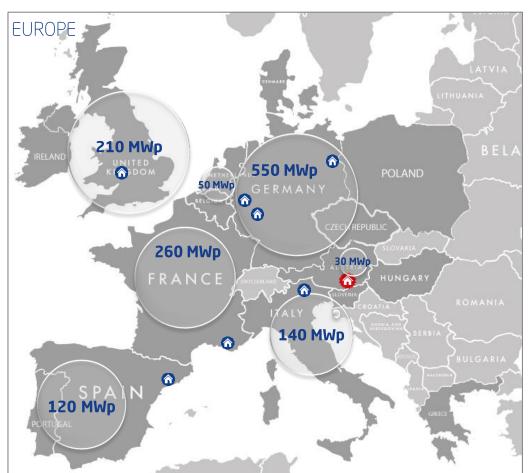






Several hundred PV power plants with a growing nominal capacity of about 2 Gigawatt









Anchored in all major European markets as well as Australia and APAC





Jörg Christiansen Chief Executive Officer

ENcome Energy Performance GmbH HQ Klagenfurt (AT)



Sebastian Nieding
Chief Operating Officer

ENcome Energy Performance UK Ltd.

100%

ce UK Performance Australia Pty Ltd. 100% ENcome Energy Performance Italia SRL

100%

ENcome Energy Performance SL

100%

ENcome Energy Performance France SAS

100%

ENcome Energy Performance Deutschland GmbH

100%

ENcome Engineering GmbH

100%





Sebastian Nieding Managing Director United Kingdom



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Simon Commons Managing Director Australia



Luca Marcucci Managing Director Italy & Spain



Sebastian Nieding Managing Director France



Richard Rath Managing Director Germany & ENcome Engineering

Operations & Maintenance (O&M)

Our **0&M service** capabilities at a glance





Centralized Monitoring Services

Monitoring

- » 365/24/7 Control Center service
- » Performance & security monitoring
- » Error diagnosis & remedial actions
- » CMMS based ticket system

Reporting

- » AV & PR calculation
- » KPI development & tracking
- » Quantitative trend analysis

Operations IT

- » Site Integration (GPM / PV+)
- » Data hosting & site configuration
- » ENcome Energy Monitor (Client front end)
- » Remote access (e.g. inverter, data logger)
- » Self invented "Hermes" software solution designed to integrate different monitoring solutions into a single platform



Operations & Maintenance



- Preventive Maintenance
- » Corrective Maintenance
- » Optional Services, including i.a.
 - panel cleaning
 - green keeping
 - fence-, road- and building maintenance
 - drainage maintenance
 - IV curve measurement
 - thermographic inspection
 - pest control
- Revamping / Repowering



Technical Asset Management



- Technical Controlling
- O&M Provider & Contractor Supervision
- » Reporting
- » Warranty administration



Operations & Maintenance (0&M)

ENcome's client front-end, the ENcome Energy Monitor, is particularly tailored to portfolio investors



ENcome Energy Monitor
Powerful monitoring system tailored to customers needs

Financial returns in real time

Data download to allow for various comparisons (actual/actual, actual/budget, plant/plant, string/string, etc.)

Individual interface and reports customized and tailored to customers needs

Low switching costs (if any)



24/7 worldwide access to various KPI overviews for an entire portfolio

In-house software solutions to maintain independent from inverter and data logger brands

Possibility to operate in parallel to existing monitoring solutions/platforms

Operations & Maintenance (0&M)

Professional structures and processes to deliver bestin-class O&M services



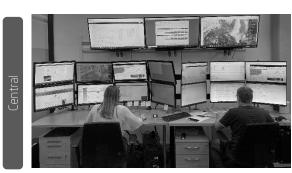


Work order management to optimize and shorten reaction

times



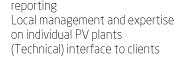
Ticket generation / Reporting



365/24/7 Control Centre

Portfolio Manager / Reporting

- 365/24/7 monitoring of plant production, performance ratio and availability, including auxiliary system monitoring and others
- Detection of alarms, first response and analysis
- Long term trends and investigation
- Tailored and sophisticated reporting
- Quantitative analysis (e.g. yield studies)



maintenance including incidence

Technical Operations Manager

Technical operations and

preventive & corrective

maintenance responsibility Coordination of on-site services,



Field Engineer

On-site preventive maintenance and corrective missions

activities

- » Execution and documentation of inspections & error analysis
- Performance of repairs and retrofits
- Detailed site visit reports
- Documentation (EEM logbook entries)



Operations & Maintenance (O&M)

ENcome ENERGY PERFORMANCE

Revamping & Repowering



Revamping & Repowering Services

The terms "revamping" and "repowering" stand for the modernisation of an existing PV plant, to extend its lifecycle, improve availability and increase efficiency and size (kWp).

The repowering and revamping services of ENcome mainly include:

- » Initial project analysis and recommendations / Technical due diligence and cost-benefit analysis
- » Maintenance and technological upgrading:
 - » Inspection and adjustment of displaced photovoltaic modules
 - » Partial replacement, removal or reinstallation of modules, inverters, strings or mechanical components
 - » Addition of retrofit technologies to increase energy performance
 - » Installation of battery energy storage systems (BESS)
 - » Adjustments to the electrical configuration of the asset
 - » Adjustments to supporting structures of the modules or building structures of the plant

Examples for latest Revamping activities:

- » Modules revamping due to delamination issue
- » Inverter revamping due to reduced availability with original components
- » Roof repair after thunderstorm
- » Strings relayout to minimize shadowing effect





Rapid intervention in emergencies

In case severe weather conditions, natural disasters or fire are damaging solar assets, and in the event of theft, a short reaction time of the O&M Team is essential.

Our Services include:

- » Detection of alarms by our 365/24/7 Monitoring of solar assets incl. the evaluation of weather data
- » Quick restoration of the safety on site
- » Evaluation of the level of destruction, e. g. by drone inspections
- » Rapid replacement of damaged modules in order to restore energy production
- » Single point of contact for our customers

Leading independent advisor with long term technological expertise and global footprint





ENcome Engineering emerged from PV pioneerabakus Solar AG and has more than 20 years of comprehensive technological expertise in the photovoltaic industry





Customized services for clients from various sectors (financing, investment, planning, construction etc.)



Independent advisory services for over 450MW projects and engineering design services for over 1.3GW projects with various capacities



Expert knowledge of processes and components with highly qualified and experienced engineering team covering the entire PV value chain



Excellent flexibility, in-depth experience and individual support

Concerning design and construction related challenges ENcome Engineering provides impartial and authoritative advice and possesses all required technical capabilities

Engineering & Advisory (E&A)

Our engineering capabilities at a glance





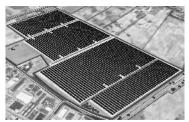
Due Diligence & Advisory



- » Technical Due Diligence for support in (re-) financing, acquisition & sale of PV power plants
- » Advisory on EPC and O&M technical contract terms
- Evaluation of plant design and performance
- Preparation of yield reports as well as analysis and evaluation of existing yield data
- » Infrared drone pictures and EagleEye™ Electroluminescence (EL) Test



Engineering & Design Services



- Design to Operate approach design the plant for a 25-30y design-life marathon
- » Energy yield studies (PVSyst and PVSol)
- » From concept to detailed engineering design
- » Component selection and procurement support with decades of experience in purchasing in Asia



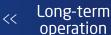
Construction Supervision



- » Active support during construction as Owner's Engineer with regular site inspections and reporting
- » Project management and project lead to control and ensure quality, cost and schedule
- » Preparation of defect lists and shortcomings
- » Support and assistance with technical inspection and acceptance

Design-to-Operate approach ensures consideration of all technical planning aspects towards the whole life cycle of photovoltaic power plants





Engineering & Advisory (E&A)

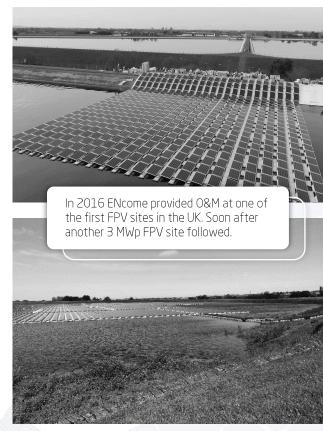
Innovative Projects
Floating PV





Technical services for Floating PV (FPV)

- » Technical planning, implementation and consulting services for FPV
- » Feasibility studies for FPV systems, e. g. on a future open-cast mining residual lake. These projects add to the complexity as to the design of a FPV plant.
- » Precise analyses and estimates grant maximum project success and risk minimisation
- » Best results achieved by combining best practice guidelines for FPV systems and the design-to-operate approach as developed by ENcome
- » Technical support along the entire FPV value chain with an individual project approach to guarantee maximum flexibility – always matching individual customer requirements
- We act as an innovation hub and are keen on covering future-oriented, challenging topics through our solid expertise
- » Trusting and transparent cooperation in every stage of the FPV-project



FPV-system on Godley Reservoir in UK



ENCOME ENERGY PERFORMANCE



Independence, reliability and long-term experience



Extensive know-how with ~2 GWp under management



Integrated services throughout the entire PV value chain



Powerful 365/24/7 Monitoring and Energy Monitor



Balanced mix of local competence centres & centralized services

05 Your contacts



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06 Selected references

Operations & Maintenance





O6 Selected references

Engineering & Advisory



