

# ECOFIT™ for your MV Switchboard

ECOFIT™ is an economical complement to maintenance operations

## Benefits



- **Extends** your switchgear's **lifetime by more than 50%**.
- Enhances your process dependability.
- **Optimizes** your maintenance service **costs** & limits your investments.
- **Maintains compliance** with evolving standards and legislation without approval procedure.
- **Ensures the safety** of your personnel and surrounding equipment by using the latest technology.
- **Access to Energy Management** with Protection Relays upgrade.
- Easy access to spare parts thanks to ECOFIT™ new solution.

### Economical winning card



### Ecological winning card



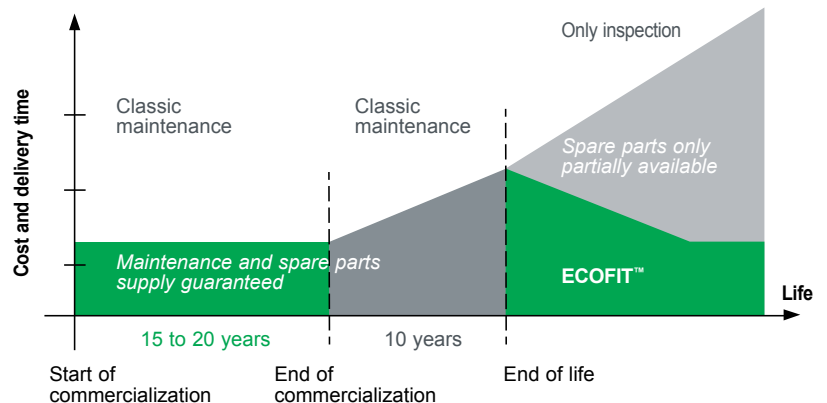
### Peace of mind

- Life time extension for existing switchgear.
- Less downtime than with full panel replacement.
- Reduces infrastructure downtime from days to minutes.

- Limited parts' replacement need.
- Optimized service and infrastructure costs.
- Reduction in recycling costs.

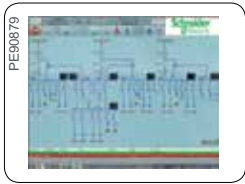
- Tested solution.
- Engineered solution with manufacturer's warranty.
- Less risk because no cable changes and no civil footprint changes.
- Safety of people and surrounding equipment.
- Enhances availability and dependability by reducing CB failures.

## Product life cycle



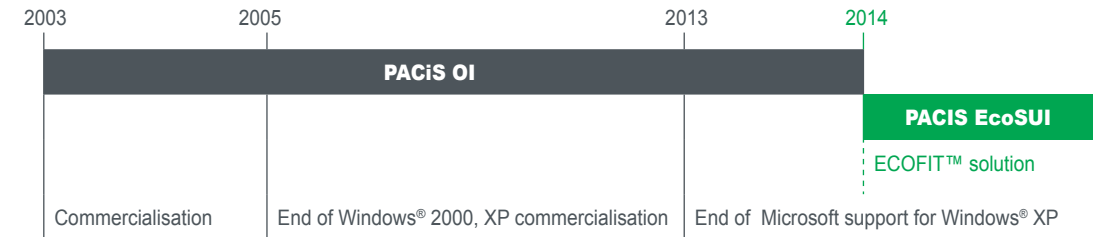
# PACIS OI V3.x up to V4.6 by PACIS EcoSUI

Original brand: **Areva or older**



## ECOFIT™ proposal

With ECOFIT™, a true extended life time



## Main characteristics and performances

PACIS OI	PACIS EcoSUI
Windows® 2000 or XP	Windows® 7 (32/64bits) Windows® server 2008 64bits
One Ethernet network management Multi-LAN through IEC/IEC Gateways	Multiple IEC61850 client access points
Configuration & database generation using SCE	Direct IEC61850 configuration by import of SCD file
Off-line modification & Time delayed deployment of database after recompilation	Immediate deployment of database modification
Redundancy switch over within 1 mn	Hot redundancy seamless switchover
Maximum handled dataflow 100 Measured Values archived /sec / server	Handled dataflow up to 3000 MV archived /sec /server

## Why Control Systems upgrade ?

Upgrade solutions intend to improve the performance of your control system with the latest technology in computers. This is also the opportunity to benefit from computer and OS upgrading to Windows 7 to get enhances performances and advanced features for the new HMI.

Considering the large variety of legacy control systems still in operation with limited extension and maintenance facilities, these Ecofit solutions provide an opportunity to benefit of a unique HMI software and standard communication protocol based on IEC61850.

## What are the benefits?

Ready for future extensions

- > Enables smooth and consistent legacy Control System solutions modernization.
- > Open, flexible and scalable architecture facilitating aggregation of several systems at substation level.
- > Easiness for future extensions.

Ease of use

- > Fast implementing without substation shut down, original control systems can remain in operation in most of cases
- > No modification of existing communication network protocol (Modbus TCP or IEC 61850, as well as protective relays communication protocol) . This could be done step by step in further stages.

Enhance graphical features

- > Realtime trends of analog values as tooltip
- > Zoom in/ Zoom out
- > Monitoring facilities by color bar graph status easy implementation

Costs reduction

- > Cost effective solution providing advanced graphical interface features and enhanced performances.
- > Secured migration managed by the manufacturer, thanks to an automatic migration tool and the use of a standard protocol.

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