

## Building management

**Application:** any building with a Building Management System

# Schedule selected loads simply via your BMS\*

\* Building Management System

“ My business is flexible enough to schedule certain energy-consuming activities during less expensive off-peak hours. What’s the best way to take advantage of this opportunity? ”

## Integrate a centrally-managed load-shedding system into your BMS

The solution is built around a PC or PLC that controls load shedding. The controller is used to generate load shedding orders based on the electrical variables of the entire electrical installation, taking into account time bands, operating, or even process-related information. The system communicates with selected Compact NSX circuit breakers. Power to outgoing loads is cut for a given amount of time, and selected loads are restarted at more optimal times chosen by the controller.

The system is simple, with an IFM Modbus interface between the PC or PLC and the circuit breakers. The Compact NSX circuit breakers are equipped with Breaker Status Control Module (BSCM) input/output modules, which are hooked up to the remote control (MTc) that opens and closes the Compact NSX.

Solution

# Benefits

## For the user



> **10% lower electricity bills**, with savings proportionate to rates negotiated with the utility

> **Get the most of your investment:** the FDM121 switchboard includes, at a cost similar to traditional push-button/lighting/commutator solutions,

- local circuit breaker open/close command
- local/remote commutator

## For professionals

### + Easy design and use

- Limited part numbers for easy selection and ordering
- Available worldwide

### + Easy installation

- The circuit breaker’s integrated communication capabilities eliminate the need for I/O wiring between the circuit-breaker and the PLC

- RJ 45 connections between the circuit breakers and the communication network
- The FDM121 mounted on a standard cutout on the front panel is easy to install with its RJ 45 connection

### + Easy testing and configuration,

using your PC installed with RCU\* software

\* Free download available online at [www.schneider-electric.com](http://www.schneider-electric.com)

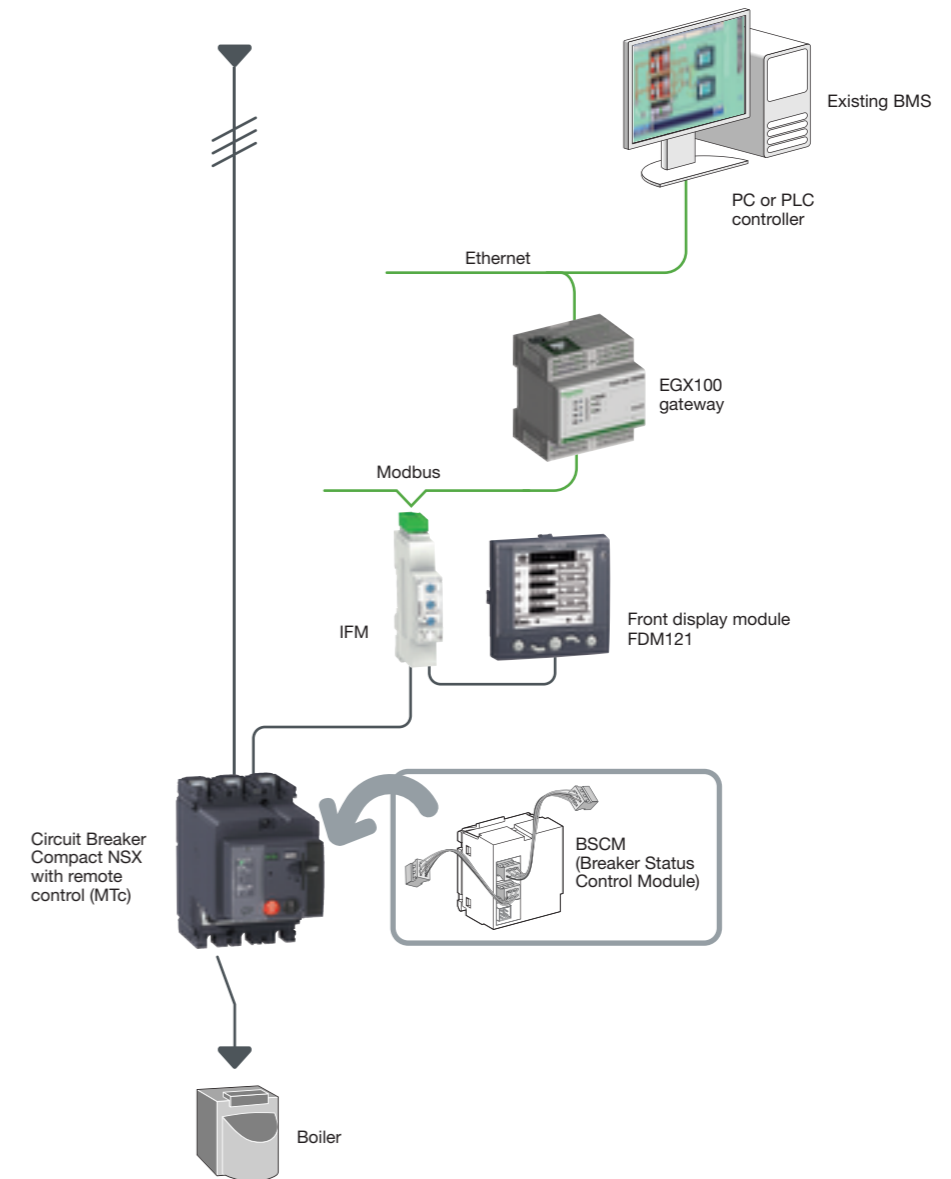
### + Efficient operation and maintenance,

thanks to the FDM121’s central and local management capabilities

Measure

Reduce energy consumption

Reduce energy costs



### Compact NSX 100-630

Circuit breaker with remote control (MTc)

### BSCM (Breaker Status Control Module)

I/O module sends circuit breaker O/C status and O/C commands

### FDM121 switchboard display unit

- Local measurement and alarm readings
- Local circuit breaker O/C command with status display
- Local/remote circuit breaker command management
- Connected to Modbus network via interface module



### Ethernet/Modbus EGX100 communication gateway