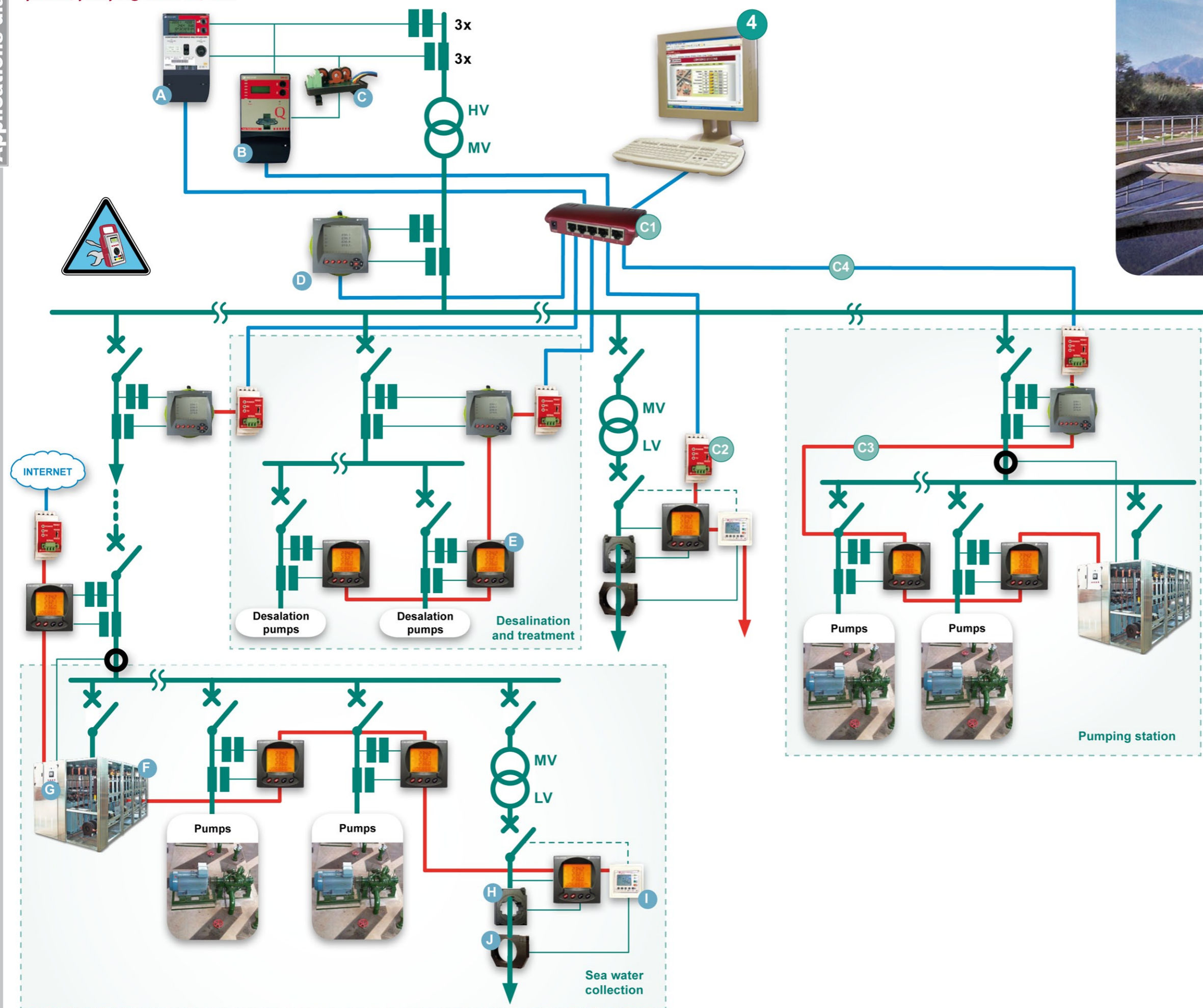



INFRASTRUCTURE APPLICATIONS. Desalination and water treatment plants, pumping stations, etc.



- Design objectives**
- Energy billing control**
 - Active/reactive power and energy
 - Demand charts
 - Power quality
 - Electrical parameter control and alarms setting for preventive maintenance**
 - Voltage and current
 - THD
 - Leakage to ground
 - Insulation control
 - Control of electrical energy costs by power line**

MATERIALS LIST	
A	CIRWATT meter
B	QNA 412 network analyzer
C	external ITF module
D	CVMk2 network analyzer
E	CVM NRG96 network analyzer
F	CIRKAP medium voltage capacitor bank
G	computer 14-df power factor relay
H	TC current transformers, cable output
I	RGU-10 C smart earth-leakage protection relay
J	WG toroidal transformer
Communications	
4	PowerStudio Scada application
C1	HUB
C2	RS-485 / TCP2RS Ethernet converter
C3	RS-485 bus
C4	Ethernet bus

 See Energy transmission and distribution