RADTHINK®
Servicios de Protección Eléctrica

GRID CODE STUDIES FOR DISTRIBUTED GENERATION

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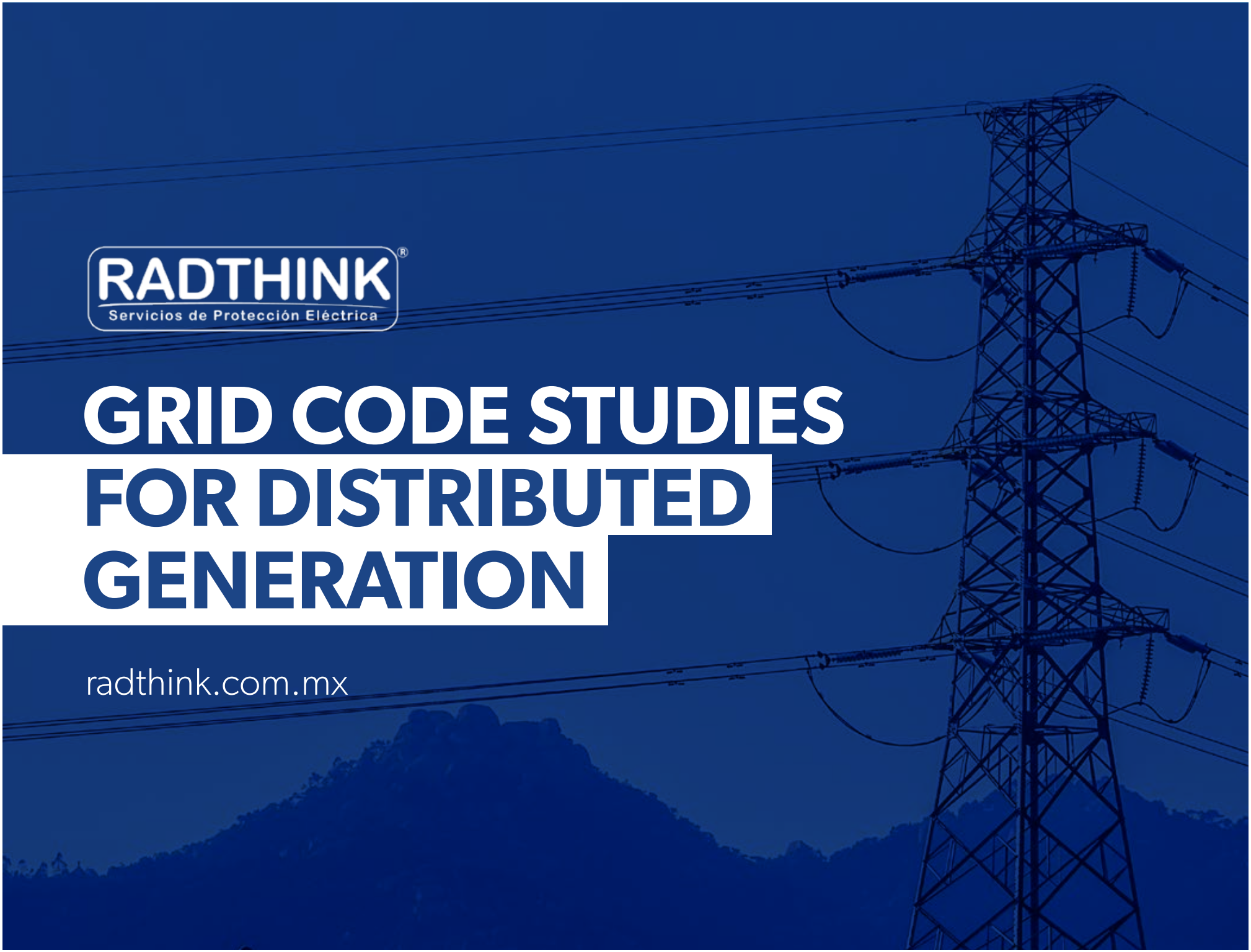

GRID CODE STUDIES FOR SYSTEMS WITH DISTRIBUTED GENERATION

(RENEWABLE GENERATION OF UP TO 500 KW).

To start operations, a distributed generation system that will supply renewable energy to a load center that is fed by the National Electric System, it is necessary to carry out evaluation studies of compliance with the Grid Code of the load center.

I. THEORETICAL STUDIES

Short circuit, ANSI and IEC standards.

- Calculation of short-circuit fault levels and evaluation of interrupting capacities of circuit breakers.

Coordination of protections, IEEE-242 standard.

- Evaluation of protection schemes and protections coordination study.

Load flow and power factor, IEEE-399 standard.

- Specification of the equipment required to comply with the power factor requirement.

Power quality, IEEE-519 standard.

- Specification of the equipment required to comply with the power quality requirement.

II. STUDIES OF COMPLIANCE WITH THE GRID CODE

Evaluation of the Grid Code from electrical measurements with class A meters for the following variables:

- Voltage.
- Frequency.
- Power Factor.
- Power quality.

ETAP SOLUTION PROVIDER

RADTHINK is recognized as an ETAP Solution Provider. It is awarded by the ETAP brand to engineering firms that have staff with the skills, knowledge, and resources to develop electrical engineering solutions using ETAP analysis software

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POWER QUALITY METERS

We use **DRANETZ** brand Class A power quality meters. Class A meters record all electrical variables cycle by cycle and can graph in 5-minute format, where the maximum, average and minimum value of the variable is shown every five minutes of the measured period.


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Servicios de Protección Eléctrica
81 3849 1587
ventas@radthink.com.mx
Av. Topo Chico 570-Interior 4A, Anáhuac, 66450
San Nicolás de los Garza, N.L.
radthink.com.mx