




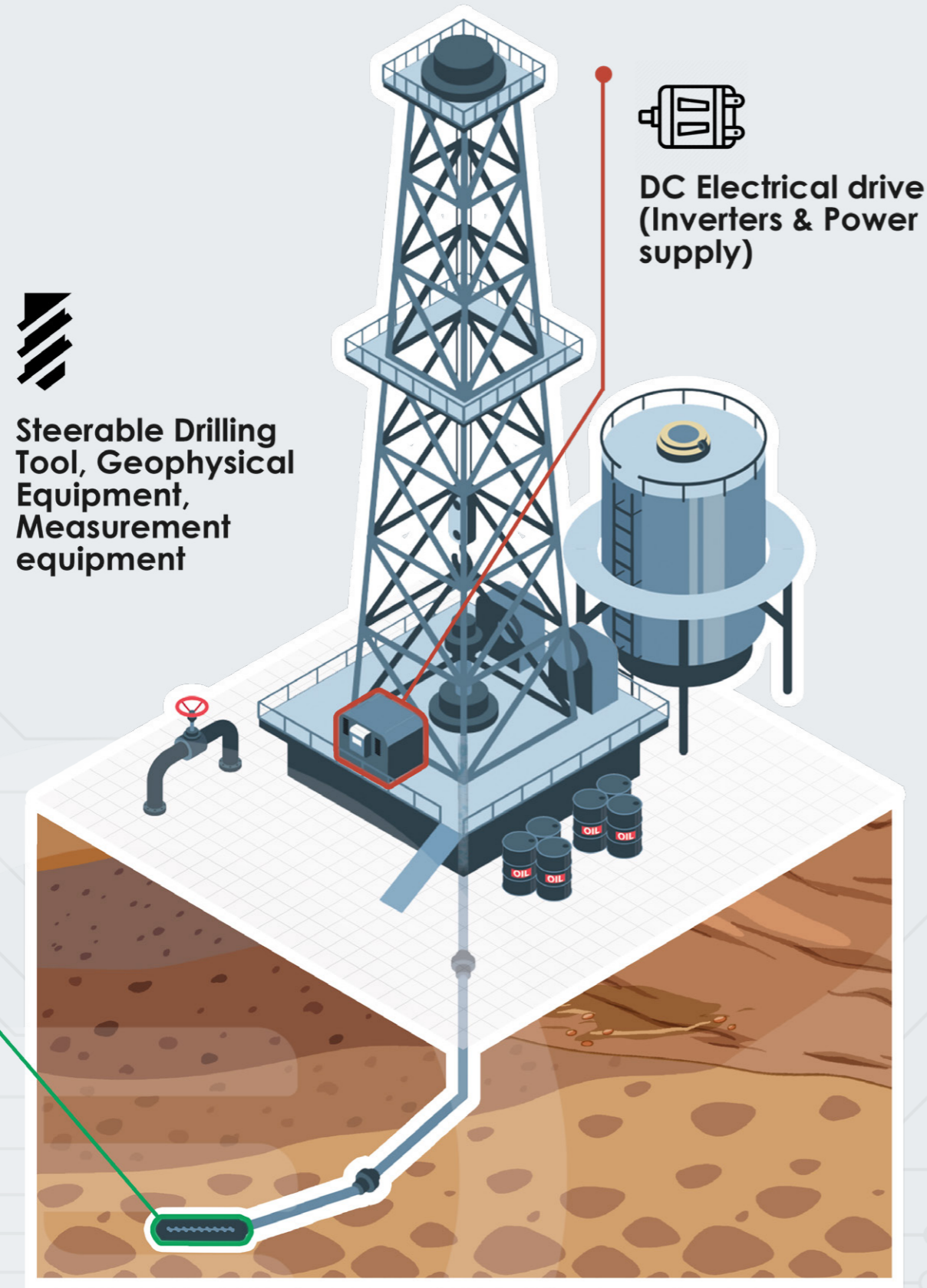
Inside

# OIL & GAS APPLICATIONS



Exxelia is the partner of choice of the downhole industry thanks to a large high-temperature product offering (**up to 260°C**) covering film, ceramic and wet tantalum capacitors, chokes & transformers, resistors and precision position sensors.

Exxelia supplies most functions of **Oil & Gas applications** (Upstream). Power filtering and precision measurement in : power supplies and EM actuators, wire lines and while drilling oil logging tools, telemetry systems, AC motor drives. Custom designs and configurations available upon request.



**Lightweight film capacitors**  
**Polyphenylene Sulfide 880P**  
 High tolerance  
 Capacitance : 4,7 pF - 10 nF  
 Voltage: 50 V - 400 V  
 -55°C to +150°C

**Precision MLCC**  
**CE & CN Series**  
 2000h life time  
 Capacitance: 1 pF - 8,2 nF  
 Voltage: 16 V - 100 V  
 -55°C to +250°C

**High capacitance**  
**Wet tantalum ST79 HT200**  
 High ripple current  
 Capacitance: 10 μF - 1 800 μF  
 Voltage: 25 V - 125 V  
 -55°C to +200°C

**Stable Performance through Temperature/Voltage Range**  
**Polymer film capacitors 560 P**  
 Capacitance: 0,1 μF - 10 μF  
 Voltage: 320 V - 800 V  
 -55°C to +180°C

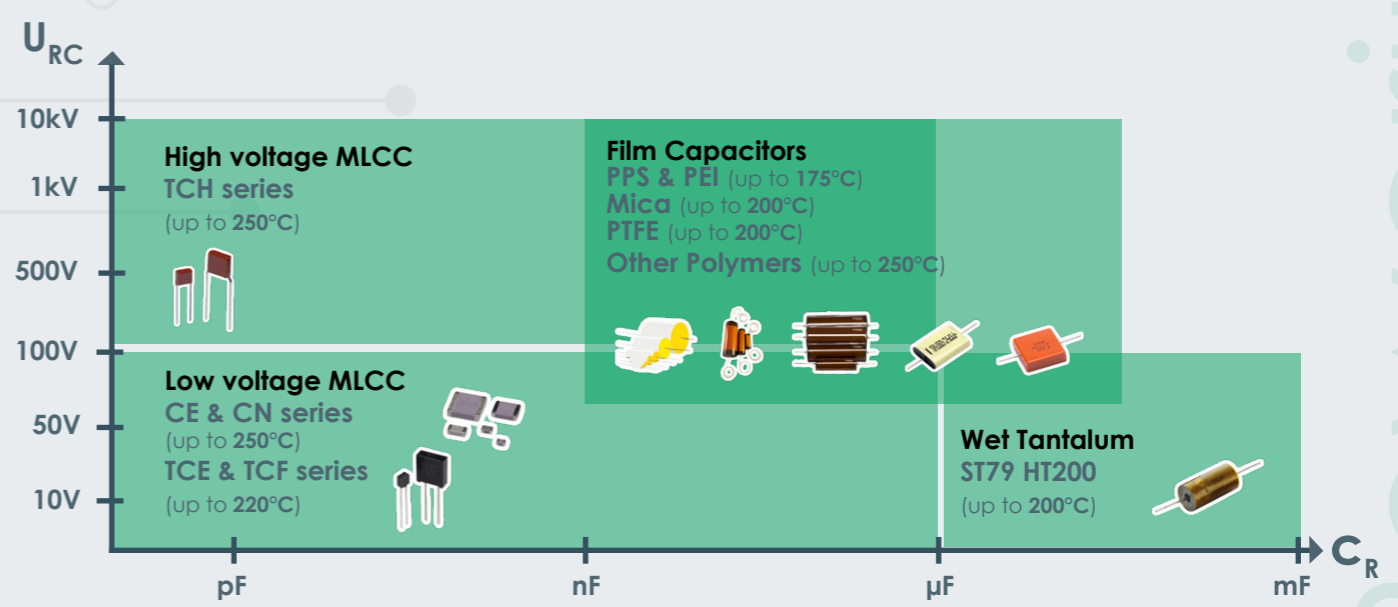
**High voltage capacitors**  
**Capacitors HT78**  
 Epoxy resin impregnated  
 Capacitance: 330 nF - 1,5 μF  
 Voltage: 630 V - 10 000 V  
 -55°C to +155°C

**High temperature capacitors**  
**PTFE 253P**  
 Can replace several X7R caps  
 Capacitance: 0,0022 μF - 1 μF  
 Voltage: 250 V - 800 V  
 High temperature to +200°C

**High capacitance**  
**TCE Series**  
 1000h life time  
 Capacitance: 1 pF - 330 nF  
 Voltage: 16 V - 100 V  
 -55°C to +220°C

**High temperature capacitors**  
**PA 911P**  
 Axial leads  
 Capacitance: 0,1 μF - 2,7 μF  
 Voltage: 400 V  
 -45°C to +250°C

**Exxelia Capacitors for High Temperature Applications**

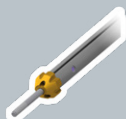


Powering Performance

Exxelia is valued for its ability to develop standard and custom products complying with the most demanding qualifications.

Contact us [www.exxelia.com/en/contact](http://www.exxelia.com/en/contact)

#### Linear Potentiometer



**R1604 Series**  
Long Electrical travel  
from 100 to 525mm  
High accuracy  
- 40°C to +150°C

#### Rotary potentiometer



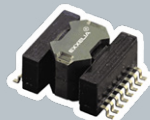
**7300 Series**  
Modular adaptable design  
High accuracy / Long heritage  
Harsh environment  
- 55°C to +155°C

#### Linear Potentiometer



**R9306 Series**  
Long Electrical travel  
from 100 to 300mm  
Under pressure up to 175 MPa  
- 55°C to +125°C

#### Inductors



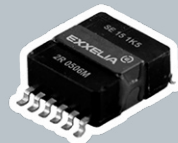
**CCM Technology**  
Multiple outputs (5 sizes)  
Capacitance: 1  $\mu$ H - 4 679  $\mu$ H  
Frequency up to 1 MHz  
- 55°C to +125°C

#### Excellent Q factor



**RF Chip Inductors MPC1 233**  
Operating temperature up to 175°C  
Transfer moulded technology  
Inductance: 0,01  $\mu$ F - 1 mH  
Frequency: 0,79 Mhz - 500 Mhz

#### Low profile Magnetics



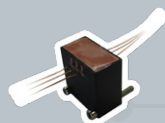
**SESI Series**  
Good thermal dissipation  
+ 20% power density  
Protected winding:  
Up to 175°C

#### Magnetics



**Toroidal transfer technology**  
7 sizes - Toroidal molded  
Shocks : 100g  
Vibrations : 30g  
- 55°C to +125°C

#### Magnetics



**HT Toroidal transformer**  
Operating temperature  
Up to 200°C