



# RATIONAL ASSISTANCE OF SECURIFIES

## EARTHING DESIGN AND CONSULTANCY SERVICES



### UCE HAVE OVER 8 YEARS' EXPERIENCE SUPPLYING TECHNICAL EARTHING CONSULTANCY SERVICES ACROSS UK INDUSTRY.

#### **CROSS-SECTOR INVOLVEMENT:**

 Providing earthing design and testing services within ENWL, NPG, UKPN, SPEN, SSEN, WPD and Private Wire networks

#### PREVIOUS/CURRENT EARTHING DESIGNS:

- Industrial sites
- Substations
- Solar farms
- · Wind farms
- Battery and Gas STOR generation

The complexity of each of the earthing systems are tailored to accommodate customer and DNO requirements.

### EARTHING SYSTEMS DESIGNED TO MEET RELEVANT UK STANDARDS INCLUDING:

- ENA TS 41-24, ENA ER S34, BS 7430, BS EN 50522
- · Specific DNO design requirements

#### **OUR EARTHING SERVICES:**

- Utility Searches
- . Soil Resistivity Surveys and Modelling
- Earthing System Designs in CDEGS<sup>™</sup> and XGSLab<sup>™</sup> Software Packages
- Model and Calculate Earth Return Fault Currents for Cable Connected Systems
- Touch, Step and Transferred Voltage Potentials Assessment
- Earth Potential Rise and Hot Zone Contour Assessment
- Conductor Current Density Modelling
- Post Construction Resistance Measurement using both the Fall of Potential and Clamp on Methods
- Post Construction Earthing Surveys, Assessment and Auditing
- Comprehensive Earthing Layout Drawings
- Probabilistic Risk Assessment of Earthing Systems

UCE can assist with designs from concept to completion, from soil resistivity testing to obtain the existing soil structures on site, developing a safe earth grid design through modelling in both CDEGS<sup>TM</sup> and XGSLab<sup>TM</sup> software packages, through to post install testing to confirm the installed earthing system meets the design and is safe.

#### **OUR DESIGN AND CONSULTATION SERVICES**



If you have any issues with your installed earthing systems or require a new earthing design, please get in touch with our experts at UCE.



CALL US ON 01226 610888

OR VISIT www.uce-ltd.co.uk





**OUR KNOWLEDGE...YOUR GAIN**