**TPEL AE Questionnaire**

Please complete the following information by January 30, 2025. Thank you for your support in this project.

* **AE Information**

1. Name
2. Gender
3. Title
4. Affiliation
5. Email
6. Telephone
7. Country

* **Expertise Areas (max. 2 of the 14 topics to choose)**

This section will list the 14 TPEL topics. Please select 2 maximum of the 14 topics. For topics with A and B, please select A, B, or both.

1. Discrete and Integrated Power Semiconductors

*Specify keywords: packaging, gate drives, wide bandgap devices, etc.*

1. Passive Components and Materials

*Specify keywords: capacitors, inductors, transformers, high-frequency magnetic components, etc.*

1. Modeling, Simulations and Design Methodologies

*Specify keywords: real-time simulation technologies, digital twin, design automation, artificial intelligence, machine learning, cyber-physical security, etc.*

1. EMI/EMC and Power Quality

*Specify keywords: EMI modeling, analysis and filtering, harmonics analysis and mitigation, active power filters, etc.*

1. Reliability, Diagnostics, and Thermal Performance

*Specify keywords: design for reliability, lifetime estimation, diagnostics, fault tolerance, thermal management, etc.*

1. Consumer Electronics, Lighting, and Medical Applications
2. Control-oriented
3. Hardware-oriented
4. Power Electronics for Information and Communication Systems
5. Control-oriented
6. Hardware-oriented
7. Renewable Energy and Energy Storage
8. Control-oriented
9. Hardware-oriented
10. Utility and Grid Applications
11. Control-oriented
12. Hardware-oriented
13. Energy Access and Off-Grid Systems
14. Control-oriented
15. Hardware-oriented
16. Electrical Drives and Automation
17. Control-oriented
18. Hardware-oriented
19. Transportation Electrification
20. Control-oriented
21. Hardware-oriented
22. Wireless Power and Energy Harvesting
23. Control-oriented
24. Hardware-oriented
25. Emerging Power Electronics Technologies (emerging topics like circularity and sustainability of power electronics, and other topics which are not covered yet).

*Specify keywords: circularity and sustainability of power electronics, pulse generators, etc.*