

# SUSTAINABLE MATERIALS, PROCESSES AND SYSTEMS FOR ENERGY TRANSITION

## MUR DM 117/VISHAY - Physical Models for spice simulation of wide band gap device

<b>Funded By</b>	VISHAY SEMICONDUCTOR ITALIANA SPA [P.iva/CF:00475790010] MINISTERO DELL'UNIVERSITA' E DELLA RICERCA [P.iva/CF:97429780584] Politecnico di TORINO [P.iva/CF:00518460019]
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<b>Context of the research activity</b>	<ul style="list-style-type: none"><li>• Create a simplified physical model of wide band gap device (Planar and trench structure)</li><li>• Method to identify parameters of the model</li><li>• Software implementation and validation of model</li></ul> Progetto finanziato nell'ambito del PNRR – DM 117/2023 - CUP: E14D23002050004
<b>Objectives</b>	Progetto finanziato nell'ambito del PNRR – DM 117/2023 - CUP: E14D23002050004
<b>Skills and competencies for the development of the activity</b>	Master degree in electronic engineer, computer engineering, medical engineer, applied physics. The candidate should have solid base in math, semiconductor physics, electronic devices and electronics . Basic skill in: Model and identification, Electronic measurement analog digital and power electronics are welcome. Mathlab, Spice, Comsol, Phyton are tools that will be necessary.