

Dr Sandhya Patidar

Approach to call topic:



Scope addressed: Challenge-driven AI for decarbonization, resilient infrastructure, smart energy systems, climate/environmental risk and socio-technical digital twins.

Topic: HORIZON-CL4-2027-DIGITAL-EMERGING-04: Apply AI – Challenge-Driven AI Innovation Booster

EIC Summit 2026: Deep-Tech AI for Decarbonisation and Climate-Tech Scale-up

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Explainable digital twins • smart energy communities • climate-resilient net-zero infrastructure

What we do	Role Sought	We Seek
<ul style="list-style-type: none"> ❖ Applied AI, statistics, GenAI, LLM and digital-twin methods for energy, climate and infrastructure systems <p>— turning complex spatial, temporal and socio-technical datasets into actionable decision intelligence.</p>	<ul style="list-style-type: none"> ❖ Partner/AI work-package lead. ❖ Open to coordinating a focused AI-digital twin workstream. 	<ul style="list-style-type: none"> ❖ EIC partners with pilots, products or datasets. ❖ SMEs, utilities, cities and challenge owners. ❖ Commercialisation, standards, investment-readiness and technology-transfer partners.

Track record includes:

❖ 100+ peer-reviewed publications, heat-pump demand profiling, flexibility analytics, low-carbon forecasting, smart energy communities.

❖ User **behaviour, vulnerability, equity and governance** translation.

❖ **EU projects:** InterPED, FEDECOM and industry-facing collaboration.

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