



Lazio Innova - Call4Innovation

MITO Tech Ventures
focus on innovation with the
potential for gigantic impact
and scale

Macro-sectors of reference

ENERGY TRANSITION

- Hydrogen / ammonia
- Renewable energy technologies
- District heating / cooling
- Power from bioenergy
- Waste heat
- Transmission and distribution of electricity

TRANSPORT AND MOBILITY

- Batteries, storage
- Supercapacitors
- Biofuels, bioliquids
- Smart cities
- Sustainable transportation, including aviation
- Transport of CO₂

CARBON TECH


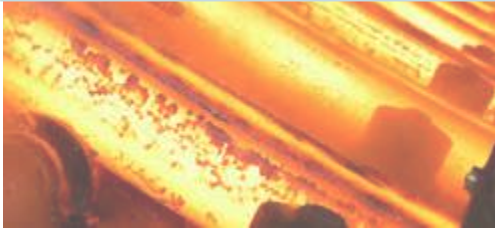

- Gas capture and utilization
- Green-cement
- GHG emissions reductions
- Climate measurement / understanding
- Carbon offset / materials

GREEN INDUSTRY TECH

- Gas capture and utilization
- Green-cement
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IEA estimates that almost half the emissions reductions needed by 2050 must come from technologies that are currently only at demonstration or prototype stage

Industrial Verticals – Call4Innovation Scouting Opportunities examples

	<i>Data Center Efficiency</i>	<i>Electrifying Industrial Heat</i>	<i>Advanced Materials</i>
Decarbonization Impact	 <p>Could avoid >300 Mt CO₂ annually by 2030 by improving energy efficiency and reducing computing waste</p>	 <p>~10% of world CO₂ emissions. Full electrification (with renewables) can eliminate 100% of those emissions.</p>	 <p>Engineered substitutes for traditional metals or critical raw materials that could reshape industry .</p>
Innovation	High-efficiency chips AI-driven workload management, liquid/immersion cooling, and waste heat recovery systems	Electric steam generators, high-temperature heat pumps, retrofitting for electrified process line	Recycling, material substitution, sustainable extraction, advanced material closed-loop battery supply.
Impact Metric (eg)	CO ₂ avoided = kWh saved/year × Grid emission factor (kg CO ₂ /kWh)	CO ₂ avoided = Heat replaced (TJ/year) × (EF _{gas} – EF _{electric})	CO ₂ avoided = kg CRM recovered × Lifecycle EF of virgin mining