

IDEAPOOL 2026: Innovation for a Sustainable Future

Thematic Innovation Tracks

Track 1: Energy and Energy Management

Focus Areas

- Renewable energy (solar, wind, hydro, and geothermal)
- Advanced energy storage technologies
- Smart grids and decentralized energy systems
- Demand-response technologies
- Energy efficiency solutions
- Green hydrogen production, storage, and transportation

Illustrative Ideas

- Solar-powered community infrastructure
 - AI-driven energy management systems
 - Battery technologies for distributed energy networks
 - Hydrogen-based energy solutions
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Track 2: Mobility and Transport

Focus Areas

- Electric vehicles
- Battery swapping technologies
- EV charging infrastructure
- Sustainable aviation
- Sustainable shipping
- Green logistics and transportation systems

Illustrative Ideas

- Rural EV charging networks
- Smart battery management systems
- Low-emission transportation technologies
- AI-based logistics optimization

Track 3: Construction and Building Materials

Focus Areas

- Green buildings
- Sustainable construction materials
- Low-carbon cement and concrete
- Modular construction technologies
- Sustainable heating and cooling systems

Illustrative Ideas

- Agricultural waste-based building materials
 - Energy-efficient building technologies
 - Passive cooling systems
 - Smart building management platforms
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Track 4: Carbon Management

Focus Areas

- Carbon capture, utilization, and storage
- Direct air capture technologies
- Carbon removal technologies
- Biochar production
- Measurement, reporting, and verification technologies

Illustrative Ideas

- Carbon capture technologies for industries
 - Biochar-based carbon sequestration
 - Digital carbon accounting platforms
 - Carbon credit verification technologies
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Track 5: Agriculture and Food Systems

Focus Areas

- Regenerative agriculture
- Precision farming
- Alternative proteins
- Agricultural waste valorization

- Vertical farming
- Climate-smart agriculture

Illustrative Ideas

- AI-powered precision agriculture
 - Waste-to-energy technologies
 - Hydroponics and indoor farming
 - Fermentation-based food technologies
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Track 6: Circular Economy and Sustainable Materials

Focus Areas

- Waste management
- Plastic recycling
- E-waste management
- Bioplastics
- Sustainable textiles
- Product reuse and refurbishment

Illustrative Ideas

- Circular packaging solutions
 - Sustainable polymers
 - Resource recovery technologies
 - Material upcycling platforms
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Track 7: Water Resources and Management

Focus Areas

- Desalination technologies
- Wastewater recycling
- Water conservation
- Leak detection technologies
- Flood prediction systems
- Disaster early warning technologies

Illustrative Ideas

- Smart water monitoring systems
- Decentralized water treatment technologies
- AI-based flood forecasting

- Water-efficient irrigation technologies
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Track 8: Climate Modeling and Digital Sustainability

Focus Areas

- Climate risk modeling
- Environmental analytics
- Carbon accounting platforms
- AI-enabled environmental monitoring
- Data-driven sustainability solutions

Illustrative Ideas

- Enterprise sustainability platforms
 - Satellite-based environmental monitoring
 - Climate-risk prediction models
 - ESG analytics tools
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Track 9: Industrial Decarbonization

Focus Areas

- Clean industrial processes
- Process electrification
- Green chemicals
- Green steel
- Green ammonia
- AI-driven industrial optimization

Illustrative Ideas

- Sustainable manufacturing technologies
 - Industrial energy optimization platforms
 - Low-carbon chemical processes
 - Smart industrial monitoring systems
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Track 10: Nature-Based Solutions for Sustainable Development

Focus Areas

- Reforestation and afforestation
- Blue carbon ecosystems

- Mangrove restoration
- Ocean restoration
- Ecosystem marketplaces

Illustrative Ideas

- Technology-enabled forest restoration
- Satellite-based ecosystem monitoring
- Biodiversity conservation technologies

Nature-based carbon solutions