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PRIORITY

RECOMMENDATION 1

Align energy innovation governance and international cooperation with meeting the targets for 2030 and 2050

National and local energy-innovation governance and international cooperation around mission-oriented policies and strategies must be strengthened. This process should be informed by evidence and

If all stakeholders adopt and act urgently on these recommendations, in tandem with the recommendations of the other technical working groups, the catalytic impact is expected to be a rate of energy innovation consistent with achieving SDG 7 by 2030 and net-zero emissions by 2050: this will also create jobs, economic growth, and a more inclusive energy sector in terms of both the needs and the participation of women, youth, and marginalized groups.

2 RESULTS AND ACTIONS MATRIX

PRIORITY RESULTS	PRIORITY ACTION AREAS	STAKEHOLDER ACTIONS			
		Public	Private	Civil Society	International organizations
Priority Result 1 Energy innovation governance, cooperation, and capacity are aligned with the 2030 and 2050 targets.	1.1 Implement, and monitor mission-oriented energy innovation visions and ecosystems. This will ensure policy coherence by aligning the objectives and impacts of energy innovation with binding commitments	Develop, implement, and monitor visions and energy innovation ecosystems in a participatory manner	Actively engage in the development, implementation and monitoring of energy innovation visions and ecosystems.	Actively engage in, and provide support for, the development of energy innovation visions and ecosystems.	Facilitate international cooperation and development assistance to countries through open data knowledge sharing platforms and peer-to-peer learning.
	1.2 Adopt existing or develop international technical standards and quality-control requirements. Harmonize these with energy supply and demand policies and regulations at the national level.	Adopt internationally harmonized technical standards and quality-control requirements, and/or develop national ones.	Apply international or national technical standards and quality-control requirements.	Support localization of international standards and the development of national standards.	Develop and/or support the adoption of international or national standards and quality-control requirements; and facilitate access of developing and least-developed countries to state-of-the-art quality and testing infrastructure

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	1.4 Develop programs that provide opportunities and build capacity among professionals, including youth and women. Programs will be on the supply and demand sides of energy innovation and of data collection and monitoring.	In partnership with the private sector, academia, and civil society, develop national programs for young professionals and women related to the supply and demand sides of energy innovations. incubators and start-up centres.	Provide opportunities for young professionals to work in energy innovation programs in partnership with government and civil society. Develop programmes that address the gender gap, in order to enhance the engagement of women in the energy sector and their career advancement within it.	Support the development of energy innovation programs targeting young professionals and women in partnerships with government and the private sector.	Facilitate international cooperation and quality standards for curricula accreditation schemes. Enable access to affordable, high quality for low-income earners and disadvantaged groups Facilitate South–South technology transfer.
	1.5 Foster multi-sector partnerships for energy technology innovation and enable cooperation through open access policies, best practices, and knowledge exchange.	and facilitate the establishment of multi-sector energy innovation partnerships.	Participate in and support global and multi-sector energy innovation partnerships.	Participate in global, national, and local multi-sector energy innovation partnerships.	Facilitate inter-governmental and global multi-sector energy innovation partnerships.
Priority Result 2 The rate of technology research, development, and demonstration is increased to be consistent with meeting the 2030 and 2050 targets.	commercial-scale pilot and demonstration projects that especially those for women and vulnerable groups.	Facilitate the development of pilots and demonstration projects at the national and local levels. sector and academia around commercialization pathways.	Support pilot and demonstration projects. and academia around development and commercialization pathways.	Participate in pilot and demonstration decision-making. academia, the private sector, and government around commercialization pathways.	Facilitate international cooperation countries to participate in technology the removal of technical and trade barriers, as well as barriers to accessibility. Support the diffusion and scale-up of successful pilot schemes and demonstrations, in addition to evaluation support in this regard.
	2.2 Strengthen commitment to predictable, sustained, outcome-based funding in RD&D and invest in portfolios of key technologies and innovations to accelerate early-stage development to commercialization. Strengthen energy system reliability, resilience, and/or security.	Develop enabling policies and institutions for home-grown RD&D and the development of energy innovations that include all key actors along value chains. Establish mechanisms for evaluating progress on innovation policy outcomes, making data available to researchers and adjusting programmes accordingly.	implement home-grown RD&D.	Provide local and regional input on needs and risk assessment.	Facilitate cross-border cooperation, public–private collaboration, particularly for sectors of a global transformed through national policy alone.

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Priority Result 5

Substantial increase in the availability, reliability, validity, and completeness of open

