

BRICS

ENERGY RESEARCH DIRECTORY

2021



BRICS
ENERGY RESEARCH COOPERATION PLATFORM



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Imprint

Study By

Indian Council for Research on International Economic Relations (ICRIER)

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India

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The directory has been prepared under the leadership of Amrita Goldar, Senior Fellow (ICRIER). The project activities were carried out by Diya Dasgupta (Research Associate), Tarun (Research Assistant), Kumar Gaurav (Research Assistant) and Sajal Jain (Research Associate).

BRICS RESEARCH DIRECTORY

This year, the Indian Presidency has prepared a Draft BRICS Research Directory that is a compilation of agencies (research institutes, academic bodies, etc.) within the BRICS countries that are engaged in low carbon technology research. It is expected that this document will prove to be pivotal for taking forward research cooperation between member countries and also between the academia and government circles.

Brazil

No.	Name of the organization/ institute	About	Contact Person
1	Energy Research Office (EPE)	<p>The Energy Research Office (EPE, in its Portuguese acronym) aims at supporting the Brazilian Ministry of Mines and Energy (MME) energy policies with studies and research on energy planning covering electricity, oil, natural gas and its derivatives and biofuels. EPE' studies cover the areas of engineering, economics, modeling, policy and environment and where they overlap.</p> <p>Established by Law 10.847, of March 15th, 2004, EPE is 100% state-owned whose purpose is to ensure the basis for the sustainable development of the country's energy infrastructure. EPE's role has been consolidated as a fundamental part of the energy policy design and implementation that begin with the definition of policies and guidelines within the scope of CNPE - National Council of Energy Policy and MME. EPE' studies and research support the development of the Brazilian energy industry.</p> <p>The EPE work requires broad articulation with a multiple range of institutions whose mandates are related to the energy industry. Besides the MME, its institutional relationships include regulatory agencies - ANEEL, ANP, ANP and ANA, the Independent National Operator of the Electric System - ONS, the Market Operator - CCEE, among others.</p> <p>Located in Brasilia (headquarters) and Rio de Janeiro (main office), EPE is an organization that has about 270 employees, with graduate-level degree as diverse as Engineering, Economics, Mathematics, Biology, Business Administration, among many others and with about 80% of them holding a post-graduate degree.</p>	<p>Thiago Barral, CEO (presidencia@epe.gov.br)</p> <p>Mariana Espécie, Chief of Staff (mariana.especie@epe.gov.br; gabinete@epe.gov.br)</p>

Russia

No.	Name of the organization/ institute	Priority areas of work	Contact person
1.	PJSC ROSSETI	1. Research on energy sector development of BRICS states	Olga Sudarikova
		2. Technological cooperation	Tel. +7 (495) 664-81-32
		3. Digitalization	E-mail: Sudarikova-OV@rosseti.ru
		4. Sustainable transport	
		5. Energy efficiency	Olga Frolova
		6. Capacity building	Tel. +7 (495) 710-95-95
		7. Smart grids	E-mail: Frolova-OY@fskees.ru
		8. Standardization and regulation	
		9. Funding for research cooperation projects	
2.	The Institute for Natural Monopolies Research (IPEM)	1. Research on energy sector development of BRICS states	Alexey Faddeev
		2. Renewables	Tel. +7 (495) 690-14-26
		3. Coal	E-mail: faddeev@ipem.ru
		4. Gas, including LNG	
		5. Sustainable transport	
		6. Energy efficiency	
		7. Hydrogen	
		8. Funding for research cooperation projects	
3.	International Institute of Energy Policy and Diplomacy MGIMO of the Ministry of Foreign Affairs of Russia	1. Research on energy sector development of BRICS states	Igbal Guliev
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		3. Renewables	E-mail: guliyevia@mail.ru
		4. Gas, including LNG	
		5. Sustainable transport	
		6. Energy efficiency	
		7. Hydrogen	
		8. Standardization and regulation	
4.	National Committee for BRICS Research	1. Research on energy sector development of BRICS states	George Toloraya
		2. Funding for research cooperation projects	Tel. +7 (903) 524-00-84
			E-mail: rusmirasaf@yandex.ru; info@nkibrics.ru

5.	«Surgutneftegas» PJSC	1. Digitalization	Oleg Chugainov
		2. Renewables	Tel. +7 (3462) 42-58-21
		3. Energy efficiency	E-mail: Chugaynov_OV@surgutneftegas.ru
		4. Hydrogen	
6.	VNIIneft JSC	1. Technological cooperation	Vyacheslav Terentyev
		2. Digitalization	Tel. +7 (495) 748-39-49 (ext. 74-73)
		3. Renewables	E-mail: VTerentev@vniineft.ru
		4. Gas, including LNG	
		5. Capacity building	
		6. Hydrogen	
		7. Standardization and regulation	
		8. Funding for research cooperation projects	
7.	“Giprovostokneft”	1. Research on energy sector development of BRICS states	Vitaly Kremlev
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		4. Renewables	
		5. Gas, including LNG	
		6. Sustainable transport	
		7. Energy efficiency	
		8. Capacity building	
		9. Standardization and regulation	
8.	JSC “Institute Hydroproject”	1. Research on energy sector development of BRICS states	Vladislav Vasiliev
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		3. Renewables	E-mail: v.vasilyev@hydroproject.ru
		4. Gas, including LNG	
9.	JSC “Vedeneev VNIIG”	1. Renewables	Vladimir Shtilman
		2. Gas, including LNG	Tel. +7 (812) 493 93 78
		3. Standardization and regulation	E-mail: ShtilmanVB@vniig.ru
10.	Joint-Stock Company «Scientific and Technical Center of Unified Power System – Emergency Control»	1. Digitalization	Victor Kritsky
		2. Renewables	Tel. +7 (812) 297-54-10
		3. Smart grids	E-mail: ntc@ntcees.ru
		4. Standardization and regulation	

11.	Joint-Stock Company «Scientific and Technical Center of Unified Power System Group»	1. Research on energy sector development of BRICS states	Peter Antonov	
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		4. Funding for research cooperation projects		
12.	National Research University "Moscow Power Engineering Institute"	1. Technological cooperation	Ivan Komarov	
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		3. Hydrogen		
		4. Funding for research cooperation projects		
13.	Peter the Great St.Petersburg Polytechnic University (SPbPU)	1. Technological cooperation	Yuri Petrenya	
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14.	National University of Science and Technology MISIS	1. Technological cooperation	Evgeny Rogozinsky	
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		4. Hydrogen		
15.	Public Joint Stock Company Gazprom	1. Research on energy sector development of BRICS states	Alexey Biteryakov	
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				Tel. +7 (812) 777-00-05
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				Sergey Tomin
		Tel.: +7 (495) 631-51-87		
		E-mail: S.Tomin@econom.gazprom.ru		
16.	Public Joint Stock Company Gazprom	1. Sustainable transport	Vasily Zinin	
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			E-mail: V.Zinin@adm.gazprom.ru	

17.	Public Joint Stock Company Gazprom	1. Hydrogen	Konstantin Romanov
	LLC "Gazprom Vodorod"		Tel.: +7 (812) 641-36-15
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18.	LLC "NIIgazeconomika"	1. Technological cooperation	Sergey Tomin
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20.	Rosneft Oil Company	1. Gas, including LNG	Sergey Barkov
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			E-mail: ss_barkov@rosneft.ru
			Ilya Mishin
			Tel. +7 (499) 517-88-88 (ext. 62905)
			E-mail: i_mishin@rosneft.ru
21.	PJSC TATNEFT	1. Technological cooperation	Zabbarov Ruslan
		2. Bioenergy	Tel. +7 (8553) 304130
		3. Coal	E-mail: zabbarov@tatneft.ru
		4. Energy efficiency	
		5. Funding for research cooperation projects	
		1. Renewables	Evgeniy Zvezdin
		2. Hydrogen	Tel. +7 (8553) 307982
			E-mail: zvezdin_eu@tatneft.ru
		1. Digitalization	Vitaly Gataullin
	Tel. +7 (8553) 307382		
	E-mail: gataullinvk@tatneft.ru		
22.	Hevel Energy Group	1. Technological cooperation	Sergey Dolgachev
		2. Renewables	Tel. +7 (985) 768-64-76
		3. Energy efficiency	E-mail: s.dolgachev@avelar-solar.com
		4. Hydrogen	

23.	Research and development center for thin-film technologies in energetics	1. Renewables	Evgeniy Terukov
	(Hevel Energy Group)		Tel. +7 (911) 835-39-84
			E-mail: e.terukov@hevelsolar.com
24.	National Gas Vehicles Association	1. Gas, including LNG	Tatiana Benoit
		2. Sustainable transport	E-mail: web@ngvrus.ru
		3. Energy efficiency	
		4. Standardization and regulation	
		5. Funding for research cooperation projects	
25.	Financial University under the Government of the Russian Federation	1. Energy efficiency	Ivan Petrov
			Tel. +7 (495) 249-52-95
			E-mail: lvVPetrov@fa.ru
26.	National University of Oil and Gas "Gubkin University"	1. Research on energy sector development of BRICS states	Oleg Isaev
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		3. Digitalization	E-mail: protocol@gubkin.ru; isaev.o@gubkin.ru
		4. Renewables	
		5. Bioenergy	
		6. Gas, including LNG	
		7. Energy efficiency	
		8. Hydrogen	
27.	Federal State Budgetary Organization "Russian Energy Agency" (REA) by the Ministry of Energy of the Russian Federation	1. Technological cooperation	Oleg Zhdaneev
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28.	Federal State Budgetary Organization "Russian Energy Agency" (REA) by the Ministry of Energy of the Russian Federation	1. Research on energy sector development of BRICS states	Denis Deryushkin
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29.	National University of Oil and Gas «Gubkin University»	1. Research on energy sector development of BRICS states	Marina Lastovskaya
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30.	The Energy Research Institute of the Russian Academy of Sciences	1. Research on energy sector development of BRICS states	Yuri Plakitkin
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		4. Energy efficiency	
		5. Capacity building	
		6. Standardization and regulation	
		7. Funding for research cooperation projects	
33.	National Research University Higher School of Economics	1. Research on energy sector development of BRICS states	Liliana Proskuryakova
		2. Technological cooperation	Tel. +7 (495) 772-95-90, (ext. 12495)
		3. Digitalization	E-mail: lproskuryakova@hse.ru
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		5. Gas, including LNG	Ilya Dolmatov
		6. Sustainable transport	Tel. +7 (495) 772-95-90, (ext. 23596)
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		8. Capacity building	
		9. Smart grids	
		10. Hydrogen	
		11. Funding for research cooperation projects	

34.	Moscow Institute of Physics and Technology (National Research University)	1. Technological cooperation	Yuri Vasilev
		2. Digitalization	Tel. +7 (916) 159-43-56
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		4. Gas, including LNG	
		5. Sustainable transport	
		6. Energy efficiency	
		7. Capacity building	
		8. Smart grids	
		9. Hydrogen	
		10. Funding for research cooperation projects	
35.	Saint-Petersburg Mining University	1. Gas, including LNG	Roman Samsonov
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		E-mail: Zharikova_NKh@pers.spmi.ru	
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		1. Renewables	Nailya Zharikova
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1. Coal	Oleg Kazanin		
	Tel. +7 (812) 328-82-11		
	E-mail: Kazanin_OI@pers.spmi.ru		
2. Digitalization	Yuri Zhukovsky		
	Tel. +7 (911) 168-92-41		
	E-mail: Zhukovskiy_yul@pers.spmi.ru		

India

S.No	Name of Organizations/ Institute	Priority Area of Work	Contact Person
1	The Energy and Resources Institute	<ol style="list-style-type: none"> 1. Energy Efficiency 2. Energy Access 3. Renewable Energy 4. Demand Side Management 5. Hydrogen 6. Electric Mobility 7. Smart Grids 8. Green Building and Sustainable Habitat 9. Resource Efficiency 10. Waste Management 	Dr. Vibha Dhawan Tel. +91-11-2468 2100 E-mail: DG@teri.res.in
2	Council on Energy, Environment and Water	<ol style="list-style-type: none"> 1. Energy Access 2. Renewable Energy 3. Power Sector 4. Industrial Sustainability & Competitiveness 5. Low Carbon Pathway 6. Technology, Finance & Trade 	Dr. Arunabha Ghosh Tel. +91-11-40733300 E-Mail: info@ceew.in
3	Indian Institute for Human Settlements	<ol style="list-style-type: none"> 1. Climate Change Adaptation and Mitigation 2. Urban Risk and Resilience 3. Water, Sanitation and Environmental Services 4. Energy 5. Architecture, Spatial Design and Heritage 6. Land Governance and Management 7. Sustainable Urban Development 	Dr. Aromar Revi Tel. +91-80-67606666 E-Mail: info@ihs.co.in
4	Alliance for an Energy Efficient Economy	<ol style="list-style-type: none"> 1. Building and Communities 2. Power Utility & Electric Mobility 3. Industrial Energy Efficiency 4. Energy Data Services 	Dr. Satish Kumar Tel. +91-11-41235600 E-Mail: info@aeee.in
5	Center for Study of Science, Technology and Policy	<ol style="list-style-type: none"> 1. Climate Environment and Sustainability 2. Energy and Power 	Dr. VS Arunachalam Tel. +91-80-66902500 E-Mail: cpe@cstep.in
6	Indian Council for Research on International Economic Relations	<ol style="list-style-type: none"> 1. Climate Change and Sustainable Development 2. Challenges and Opportunities of Urbanisation 3. Physical and Social Infrastructure including Telecom, Transport, Energy and Health 	Dr. Deepak Mishra Tel. +91-11-43112400 E-Mail: dmishra@icrier.res.in
7	Development Alternatives	<ol style="list-style-type: none"> 1. Renewable Energy 2. Green Buildings 3. Natural Resource Management 4. Climate Adaptation and Resilience 	Dr. Ashok Khosla Tel. +91-11-26544100 E-Mail: mail@devalt.org
8	National Physical Laboratory	Development of economically viable and efficient organic and inorganic Photovoltaic and Thermoelectric devices, Luminescent materials, Carbon based materials & composites and Thin-film based gas sensors	Dr. Sanjay R. Dhakate Tel. +91-11-45609388 E-Mail: dhakate@nplindia.org

9	NTPC Energy Technology Research Alliance	<ol style="list-style-type: none"> 1. Efficiency Improvement of Thermal Power Plant 2. New & Renewable Energy 3. Climate Change & Environmental protection which includes water conservation, Ash utilization, carbon capture, and utilization 4. Waste Management. 	<p>Sh. R Satyakam Tel. +91-9650993201 E-Mail: rsatyakam@ntpc.co.in</p>
10	Central Power Research Institute	<ol style="list-style-type: none"> 1. Electricity Generation, Transmission and Distribution 2. Power System Planning 3. Wireless Power Transmission 4. Renewable Energy 5. Carbon Capture and Storage 6. Energy Efficiency 	<p>Shri V. S. Nanda kumar Tel. +91-80-22072234 E-Mail: dgcprici@cprici.in</p>
11	Alternate Hydro Energy Centre Indian Institute of Technology Roorkee	<ol style="list-style-type: none"> 1.Small Scale Hydro Power Plant 2. Decentralised Renewable Energy 	<p>Dr. Arun Kumar Tel. +91-133-2274254 E-Mail: ahee@iitr.ernet.in</p>
12	Indian Renewable Energy Development Agency	Renewable Energy Financing	<p>Sh. Pradip Kumar Das Tel. +91-11-24682206 E.Mail: cmd@ireda.in</p>
13	National Institute of Solar Energy	<ol style="list-style-type: none"> 1. Performance and Qualification Testing of Photovoltaic Modules 2. Qualification Testing Of PV Modules As Per IEC Standards. 3. Quality Benchmarking of PV Modules 4. Battery Testing and Certification 5. Concentrated Solar Power Plant for Decentralized Power Generation 6. Solar Cooling 7. Design and Development of Solar-biomass hybrid cold storage 8. Solar Sterling Engine 9. Solar Water Distillation 10. Skill Development and Consultancy 11. Solar Radiation Resource Assessment 12. Green Hydrogen Generation 13. Fuel Cell Testing 	<p>Dr. Chandan Banerjee Tel. +91-124-2853001 E.Mail: banerjee.mnre@gov.in</p>
14	National Institute of Wind Energy	<ol style="list-style-type: none"> 1. Wind Resource Micro Survey 2. Wind Farm Development 3. Assessing and Analyzing Wind Resources 4. Certification of Wind Turbines 5. Skill Development and Training 	<p>Dr. K.BALARAMAN Tel. +91-44-22463981 E.Mail: dg.niwe@gov.in</p>
15	Sardar Swaran Singh National Institute of Bio-Energy	<ol style="list-style-type: none"> 1.Biomass management 2. Biomass Thermal Gasifier 3. Bio-Oil, Bio Crude Production, Integrated Bio-Refinery Development 4. Hydrogen Generation from biomass resources 	<p>Sh. Dinesh Dayanand Jagdale Tel. +91-182-2255543 E.Mail: info@nire.res.in</p>

S. No.	Sector Expert	Name of organization	Name	Designation	Address
1	Cement	National Council for Cement and Building Material	Shri BN Mohapatra	Director General	34 Km, Delhi-Mathura Road (NH-2) Ballabhgarh, Haryana-121 004 Tel: 0129-2242525 Fax: 129-2254968, 2242100 Email: dg@ncbindia.com; nccbm@ncbindia.com
2	Iron & Steel	ED- Sponge Iron Manufactures Association,	Shri. Dependra Kashiva	Member	1501, Hemkunt Tower, 98, Nehru Place, New Delhi, Delhi 110019 dkashiva11@sima.org.in 9899571963
3	Chlor Alkali	Alkali Manufacturers Association of India	Shri K Srinivasan	Secretary General	Pankaj Chamber, 3rd Floor, Commercial Complex, Vikas Marg, Preet Vihar, Delhi, 110092 ksrinivasan@ama-india.org
4	Fertilizer	-	Dr. S. Nand	Chairman	DDG, FAI, Plot No 10, Shaheed Jeet Singh Marg, Block A, Qutab Institutional Area, New Delhi, Delhi 110067 tech@faidelhi.org
5	Pulp & Paper	Central Pulp and Paper Research Institute	-	Director	Paper Mill Rd, Himmat Nagar, Saharanpur, Uttar Pradesh 247001 director.cppri@gmail.com
6	Textile	The South India Textile Research Association	-	-	13/37, Avinashi Road, Coimbatore Aerodrome Post, Coimbatore - 641 014 engg@sitra.org.in, info@sitra.org.in, mmk@sitra.org.in
7	Textile	Northern India Textile Research Association	-	-	Sector-23, Raj Nagar, Ghaziabad-201002 mail@nitratextile.org
8	Textile	The Bombay Textile Research Association	-	-	Lal Bahadur Shastri Marg, Ghatkopar(W), Mumbai - 400 086 btra@vsnl.com, btradirector@gmail.com
9	Textile	Ahmedabad Textile Industry's Research Association (ATIRA)	-	-	P.O. Ambawadi Vistar, Ahmedabad, Gujarat - 380 015, India director@atira.in, atiraad1@sancharnet.in, ctd@atira.in
10	Aluminium	Jawaharlal Nehru Aluminum Research Development and Design Centre	Shri. Anupam Agnihotri	Director	Amrawati Road, Opp. Wadi, Nagpur director@jnarddc.gov.in
11	Commercial Building and Hotel	Council Of Scientific And Industrial Research-Central Building Research Institute (CSIR-CBRI),	-	-	Roorkee, Uttarakhand director@cbri.res.in, director@cbriemail.com

China

Sector	Subsector	Name of Institute	Focus Area	Contact Person
Industry	Iron and Steel	China Iron and Steel Association	China Iron and Steel Association is a national wide industrial organization of Chinese steel industry. Guided by the Party's lines, rules and policies, it follows scientific development view and provides services to the enterprises, the industry, the government and the society.	International Cooperation Department Tel.: (+86/10)-65133322-1328 Fax: (+86/10) 65130074
	Cement	China Cement Association	CCA is a national, industry-based, non-profit social organization voluntarily formed by national cement manufacturing and operating companies, scientific research institutes, universities, social organizations, and units related to the cement industry.	International Cooperation Department (+86/10) 63425525
	Chemicals	China Petroleum and Chemical Industry Association	China Petroleum and Chemical Industry Federation is a national and comprehensive social industry organization with services and certain management functions in the petroleum and chemical industries.	admin@cpcia.cn
		China Chemical Enterprise Management Association	It is a national social organization with legal personality formed by chemical enterprises, institutions and individuals in accordance with the principle of equality and voluntariness. It is also a comprehensive management association covering all chemical industries in the national chemical system. Most of the more than 200 member units of the association are key enterprises in the chemical industry, covering various fields such as chemical production, scientific research, and circulation throughout the country, forming a large-scale, wide-ranging, and comprehensive organization network.	Tel:8610-58650276 Fax:8610-58650149

Road Transport	China Road Transport Association	The association has passenger transportation and station branch, urban passenger transportation branch, taxi and car rental branch, freight and logistics branch, dangerous goods transportation branch, container transportation branch, bulk transportation branch, international road transportation branch, motor vehicle driving training branch, 13 branches including the Service Comprehensive Transportation Working Committee, the Automobile After-sales Service Working Committee, the Culture and Brand Building Working Committee, the Road Transportation Equipment and Safety and Energy Saving Working Committee, etc.	International Cooperation Department 010 5873 1836 gjhzbc@crrta.org.cn
Aviation	China Air Transport Association	Branches include the Aviation Safety Working Committee, the General Aviation Branch, the Air Transport Sales Agency Branch, the Aviation Food Branch, the Aviation Fuel Branch, the Education Training and Cultural Branch, the Cabin Crew Committee, the Legal Committee, the Financial Audit Working Committee, the Revenue Accounting Working Committee, Aviation Environmental Protection Committee, Science and Technology and Information Technology Committee, Aviation Logistics Committee, Cross-Strait Air Transport Exchange Committee, Aviation Logistics Development Fund Management Committee.	+86 010-5095 9734 cataxf@cata.org.cn
Buildings	China Construction Industry Association	Housing construction industry, civil engineering construction industry, construction and installation industry, building decoration and decoration and others	zgjzyxh@163.com +86 010 68118652

South Africa

No.	Name of the organization/ institute	Focus areas of work	Contact Person
1	The Energy Systems Research Group (ESRG), formerly the Energy Research Centre (ERC) at the University of Cape Town, (UCT)	<p>The Energy Systems Research Group at the University of Cape Town combines modelling of energy and economic systems with policy analysis and field-based research, to generate and enhance knowledge of energy systems at sectoral, regional, national and sub-continental scales, focused on South Africa and the SADC region. Such large systems are known to behave counter-intuitively, and modelling helps to study the interaction of multiple components under changing conditions over longer time periods, providing intelligence needed for policy regulation and on optimal capital investment into costly infrastructure. In SATIM, the group holds the only full energy sector model for South Africa, combining electricity and liquid fuels sectors on the supply side with industrial, transportation and residential users on the demand side. A dynamic linking of this energy systems model with a macroeconomic general equilibrium model allows for economic analysis of energy-system decisions and ensures that inputs to SATIM are based in economic forecasts rather than arbitrarily specified. Specialists cover the main industrial sub- sectors, transport, residential, power generation, coal-mining and renewables. In addition, the group has expertise in modelling on a number of other open-source energy systems platforms. The group in its current format evolved out of the 2019 restructuring of UCT's Energy Research Centre and holds a combined experience of over 70 person-years.</p>	<p>Professor Harro Von Blottnitz</p> <p>University of Cape Town</p> <p>harro.vonblottnitz@uct.ac.za</p>
2	Climate Action Partnership (CAP)	<p>CAP's objectives are: to raise awareness around climate change and the links between climate change and the conservation of natural habitat; to promote the integrity of climate change projects by promoting the adoption of globally accepted standards, with an emphasis on the Climate, Community and Biodiversity Standards (CCBS); to advise on and support Southern African solutions for mitigation and adaptation to climate change with a biodiversity conservation outcome; to promote cross-sectoral policy that supports climate change mitigation and adaptation activities with a biodiversity conservation outcome; to achieve carbon reductions for the head offices of the CAP partner organizations.</p>	<p>Only online contacts: http://www.cap.org.za/contact-us/</p>

3	Council for Scientific and Industrial Research CSIR	<p>The Council for Scientific and Industrial Research (CSIR) is a leading scientific and technology research organization that researches and develops transformative technologies to accelerate socioeconomic prosperity in South Africa. The CSIR Energy Research Centre provides the fact-base expertise and essential research infrastructure necessary to address South Africa's growing energy needs, and the associated industrialization opportunities for new products and services. The Energy Research Centre provides thought leadership, innovation and capacity building to address the two main energy imperatives of energy efficiency and cleaner energy. The center's growth and impact plan responds directly to the challenges identified in the National Development Plan (NDP) by providing unbiased decision support to solve the long-term sustainable energy needs of South Africa, while concurrently addressing issues such as carbon dioxide (CO₂) emissions, water use, uncertainty, localization and regional development. This, in the context of a highly carbon-intensive energy system where coal is the primary energy source.</p>	<p>Dr. Clinton Carter-Brown</p> <p>Head: Energy Centre</p> <p>Tel: +27128413609</p> <p>Cell: +27036300626</p> <p>Email: ccarterbrown@csir.co.za</p>
4	African Energy Institute	<p>The African Energy Institute is an independent think tank dedicated to thorough and insightful thinking around power and energy policies in the African continent.</p>	<p>The Michelangelo Towers</p> <p>Address: 8 Maude St, Sandown, Sandton, 2031</p> <p>+27 11 075 2750</p> <p>info@africanenergyinstitute.com</p>
5	South African National Energy Development Institute, (SANEDI), which is a South African Department of Mineral Resources and Energy, (DMRE)	<p>The National Energy Act, 2008 (Act No. 34 of 2008), Section 7 (2) provides for SANEDI to direct, monitor and conduct energy research and development, as well as undertake measures to promote energy efficiency throughout the economy.</p>	<p>Barry Bredenkamp</p> <p>CEF House, 150 Ann Crescent, Strathavon, SANDTON, South Africa</p> <p>info@sanedi.org.za</p>

6	University of Pretoria - Energy Data Analysis & Research	<p>The University of Pretoria is a reputable institution in South Africa, often selected to take a lead on energy research in South Africa. The University's research programme, in collaboration with SANEDI, is detailed in the approach undertaken to carry out the implementation of four (4) components, namely: (a) Technical Papers & Publications; (b) Capacity Building; (c) Monitoring & Evaluation System Development (e) Bursary Allocation.</p> <p>Furthermore, the Centre for New Energy Systems (CNES) is a research centre within the University of Pretoria, with a research focus of energy system Modelling, optimization and control. CNES was the host of South African Hub for the Postgraduate Programme in Energy Efficiency and Demand Side Management.</p>	<p>Prof. Raj Naidoo HOD, Electrical, Electronic and Computer Eng.</p>
7	Process, Energy & Environmental Technology Station (UJ-PEETS), University of Johannesburg	<p>The primary mandate of the University of Johannesburg's Process, Energy and Environmental Technology Station (UJ PEETS) is to contribute towards improving the competitiveness of industry in the green economy through the application of specialized knowledge and technology transfer. UJ PEETS facilitate the interaction between academia, industry (especially SMEs) and government. The focus is on Process Optimization, specifically in the energy and environmental sectors that supports circular, zero-net waste Industry 4.0 business strategies.</p> <p>In the Energy Sector, UJ-PEETS support R&D related to energy efficiency and renewable energy solutions, waste-to-energy conversion, microgrids and energy storage, supported by data-driven decision making and industry 4.0 business process optimization. Concentrating on initiatives to support the green economy, UJ-PEETS build on multidisciplinary partnerships with researchers at the University of Johannesburg and within the National System of Innovation to support this mandate.</p>	<p>+27 11 559 9080/ +27 72 777 3570 elmariep@uj.ac.za www.uj.ac.za/faculties/febe/peets Office 8, Old Franks Building, Doornfontein Campus http://bit.ly/2x1er18</p>
8	Climate and Development Knowledge Network	<p>The Climate and Development Knowledge Network works to enhance the quality of life for the poorest and most vulnerable to climate change. We support decision-makers in designing and delivering climate compatible development.</p>	<p>Only online access: https://cdkn.org/about/?loclang=en_gb</p>
9	Centre for Sustainable and Renewable Energy Studies (CRSES), Stellenbosch University	<p>The Centre for Renewable and Sustainable Energy Studies (CRSES) at Stellenbosch University enables a sustainable future for Africa through world-class renewable and sustainable energy research, advisory services, awareness campaigns and training programmes.</p>	<p>+27 21 808 4069 crses@sun.ac.za 021 883 8513</p>

10	MINTEK	<p>With a proud history extending as far back as 1934, MINTEK has become a leading provider of minerals processing and metallurgical engineering products and services to industries world-wide. The objects of Mintek are through research, development and technology transfer, to promote mineral technology, and to foster the establishment and expansion of industries in the field of minerals and products derived therefrom. In view of this, Mintek has recently revised its strategic framework to conduct relevant and applied research and technological innovation and to establish new industries and support & grow existing industries. As a drive to establish new industries in sustaining competitiveness in South Africa, Mintek has a strategic programme on battery materials where the focus is on the production of high grade precursor materials for battery components based on commodities that are found in abundance in South Africa and Southern Africa including V, Mn, Co, Ni. Mintek is developing a concept around DC arc furnace gasification of discard coal and coal fines to support the energy sector in South Africa. Mintek is developing expertise in solar thermal heating for application in extractive metallurgy, pyrometallurgical. Furthermore, Mintek plans to also incorporate other renewables in pyrometallurgical processing such as PV electricity for electricity supply for DC arc furnaces. Mintek has developed an energy efficient, new generation Minfurn™ using DRH technology is an ideal solution for activated carbon regeneration to support the ageing gold industry in South Africa.</p>	
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BRICS
ENERGY RESEARCH COOPERATION PLATFORM