



Comments and suggestions on the Draft Central Electricity Regulatory Commission (Terms and Conditions for Renewable Energy Certificates for Renewable Energy Generation) Regulations, 2022

March 15, 2022

Submission to Central Electricity Regulatory Commission Government of India

Submitted by

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Dear Sir,

Greetings from the Council on Energy, Environment and Water (CEEW).

On February 15th, the Central Electricity Regulatory Commission circulated Draft Central Electricity Regulatory Commission (Terms and Conditions for Renewable Energy Certificates for Renewable Energy Generation) Regulations, 2022, and has sought comments on the same. In this document, we are submitting our comments and suggestions on the draft regulation.

Provision	Proposal in the draft	CEEW proposed change in the
	regulation	draft regulation
2(o) – Definition of renewable	Renewable energy sources	The definition misses out
energy sources	mean sources of renewable	on hybrid systems and BESS
	energy such as hydro, wind,	with RE systems which can
	solar including its integration	also be included under the REC
	with combined cycle, biomass,	mechanism.
	biofuel cogeneration, urban or	
	municipal waste and such	
	other sources as recognized or	
	approved by the Central	
	Government.	
4 – Eligibility for issuance of	In the proposed regulation, it	In CEEW-CEF report on
certificates.	is mentioned under 4(2)(b),	Rebooting Renewable Energy
	that no REC will be issued to	Certificate for a Balanced
	the renewable energy	Energy Transition in India,
	generating station which are	(<u>here</u>) we find that the supply
	beneficiary of (i) waiver or	side is a major challenge under
	concessional transmission	the REC mechanism. For
	charges or (ii) waiver or	example, the aggregate
	concessional wheeling charges	shortfall in FY20 alone for the
	or (iii) facility of banking of	27 RPO under compliant
	electricity.	states, if met only through REC
		purchases, would have created
		a demand for 72.5 million
		RECs, while the actual number
		of RECs issued so far is merely
		70.6 million. Out of date
		conditionalities imposed on
		the issuance of RECs result in
		low participation in the market
		which is evident from a mere
		4.6 GW ¹ capacity registered
		under the REC mechanism as
		compared to the country's

¹ Renewable Energy Certificate Registry of India. "Registered RE generators." <u>https://www.recregistryindia.nic.in/index.php/publics/registered_regens</u>. Accessed 24 June, 2021



		installed grid-interactive RE capacity of 94.4 GW ² . From the perspective of open access and captive RE generators, de-linking REC issuance from those availing concessional charges of waivers may be a good way to improve supply of RECs. Moreover, it may be that the sum total of waivers availed by open access and captive RE generators may be far less than the economic value of RECs forgone by them. RECs should be issued to the open access and captive RE generators availing promotional concessional and wheeling charges.
		should be issued to the open access and captive RE generators availing promotional concessional and wheeling charges. Further, it may also be notable to point out that the waivers and concessions mentioned keeps changing across states and hence the process of finding out all the RE projects availing such charges in order to delink them from the REC issuance is a herculean task and adds to the administrative cost. It may also lead to a surge in legal disputes which will only add to the burden of
0 Count of residential (In the many second day for	SERUS.
8 - Grant of registration for certificates	In the proposed draft regulation 8(2), it is mentioned that the registration for certificates granted in terms of these regulations shall be valid for 15 years from the date of registration for Certificates	An additional period constraint on registration which then affects issuance of RECs may be avoided and RE generators may be issued RECs against all RE power injected into the grid by them until such time that green attributes have not been

² MNRE.2021. "State-wise installed capacity of Grid Interactive Renewable Power as on 31.03.2021." <u>https://mnre.gov.in/the-ministry/physical-progress</u>. Accessed 24 June, 2021.



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		passed on to the discom.
12 - Denomination of certificate	Certificate multipliers are provided for renewable energy technologies such as On-shore wind and solar, hydro, municipal solid waste and non- fossil fuel-based cogeneration, biomass and biofuel.	Technology capacity multiplier can go a long way in integrating new RE technologies with the REC framework. The flexible nature of RECs makes it particularly well placed for incentivising newer technologies. The proposed concept of certificate multiplier is therefore welcome but it excludes the low-capacity solar (rooftop solar) and wind from participating in the REC mechanism as it requires the projects to fulfil the eligibility of 1 MWh to participate in the market. An enabling certificate multiplier can also be considered for BESS systems with REC, hybrid tech.
	The certificate multiplier once assigned to a renewable energy generating station, shall remain valid for a period of fifteen years	The certificate multiplier can be made applicable till redemption of REC.
13 – Pricing of certificates	In the draft regulation 13, it is mentioned that: (1) The price of Certificate shall be as discovered in the Power Exchange(s) or as mutually agreed between eligible entities and the electricity traders: Provided that the Power Exchange(s) and the electricity traders shall report all transactions with details including but not limited to volume, price, buyers and sellers to the Central Agency on a monthly basis.	Bilateral trade of RECs may only result in conditions given in provision 13(2) of the draft regulation. Hence only market/exchange-based sale be considered. If bilateral trade be considered, at least the forbearance price of the certificates be determined by commission, in such case of RECs being mutually traded via traders rather than just waiting for some circumstances of 13(2) to happen. Non determination of forbearance prices may lead to increase in REC prices as the RPO targets for every state are



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	satisfied that any of the	same may result in artificial
	following circumstances exist	scarcity of RECS in the
	order give such directions as	Illarket.
	may be considered pecessary:	
	(a) Apportage increase or	
	decrease in prices of	
	Certificates:	
	(b) Sudden volatility in the	
	prices of Certificates:	
	(c) Sudden high or low	
	transaction volumes of	
	Certificates on a Power	
	Exchange.	
	Additional recommendations	
Proposal	Comments/Remarks	CEEW additional
		discussion paper on RECs
1 Creating demand for RECs	RFC market is predominantly	CEBC can expand the end-use
hevond RPO	BPO driven and approximately	of RECs by allowing them to be
	99 per cent of the RECs sold so	used as offsets for settling the
	far have been to meet the RPO	DSM penalties of RE
	obligations.	developers and discoms (given
	5	that RE generation is
	However, poor RPO	intermittent, which makes grid
	compliance by the obligated	integration of RE challenging).
	entities has ailed the market to	
	varying degrees.	
	On the demand side, 5.1	
	million RECs	
	(about 7 per cent) issued so far	
	remain unsold. The demand	
	side challenge may further	
	increase as the trading	
	resumes with the floor price	
	removal and with the launch	
	of competing products such as	
	GIAM. It may therefore be	
	Received to create a demand for	
2. Regarding Hydrogen		Government of India
Purchase Obligation and REC		introduced Hydro Purchase



Obligation (HPO)
for promoting large hydro
power plants which can be
fulfilled by obligated entities
by purchasing power from the
large hydro commissioned on
and after 08.03.2019 and up to
31.03.2030 of 70 per cent of
the total generated capacity
for a period of 12 years from
the date of commissioning or
by purchase of Hydro Purchase
Certificate (HEC). Further,
many state commissions have
already made HPO mandatory
for the state licensees. It is
suggested if HEC can also be
made part of the draft
regulation or clarity if it shall
be treated separately.



About CEEW

The <u>Council on Energy, Environment and Water (CEEW)</u> is one of Asia's leading not-for-profit policy research institutions. **The Council uses data, integrated analysis, and strategic outreach to explain** — **and change** — **the use, reuse, and misuse of resources**. The Council addresses pressing global challenges through an integrated and internationally focused approach. It prides itself on the independence of its high-quality research, develops partnerships with public and private institutions, and engages with the wider public.

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In 2021, CEEW once again featured extensively across ten categories in the 2020 Global Go To Think Tank Index Report, including being ranked as South Asia's top think tank (15th globally) in our category for the eighth year in a row. CEEW has also been ranked as South Asia's top energy and resource policy think tank for the third year running. It has consistently featured <u>among the world's best managed and independent think tanks</u>, and twice among the world's <u>20 best climate think tanks</u>.

In ten years of operations, The Council has engaged in 278 research projects, published 212 peerreviewed books, policy reports and papers, created 100+ new databases or improved access to data, advised governments around the world nearly 700 times, promoted bilateral and multilateral initiatives on 80+ occasions, and organised 350+ seminars and conferences. In July 2019, Minister Dharmendra Pradhan and Dr Fatih Birol (IEA) launched the <u>CEEW Centre for Energy Finance</u>. In August 2020, <u>Powering Livelihoods</u> — a CEEW and Villgro initiative for rural start-ups — was launched by Minister Mr Piyush Goyal, Dr Rajiv Kumar (NITI Aayog), and H.E. Ms Damilola Ogunbiyi (SEforAll).

The Council's major contributions include: The 584-page *National Water Resources Framework Study* for India's 12th Five Year Plan; the <u>first independent evaluation of the *National Solar Mission*;</u> India's first report on global governance, submitted to the National Security Adviser; irrigation reform for Bihar; the birth of the Clean Energy Access Network; work for the PMO on <u>accelerated</u> <u>targets for renewables</u>, power sector reforms, environmental clearances, *Swachh Bharat*; pathbreaking work for the Paris Agreement, the HFC deal, the aviation emissions agreement, and <u>international climate technology cooperation</u>; the concept and strategy for the <u>International Solar</u> <u>Alliance (ISA)</u>; the Common Risk Mitigation Mechanism (CRMM); critical minerals for *Make in India*; modelling uncertainties across 200+ scenarios for India's low-carbon pathways; India's largest multidimensional <u>energy access survey (ACCESS)</u>; climate geoengineering governance; circular economy of water and waste; and the flagship event, <u>Energy Horizons</u>. It recently published <u>Jobs</u>, *Growth and Sustainability: A New Social Contract for India's Recovery*.

The Council's current initiatives include: A go-to-market programme for <u>decentralised renewable</u> <u>energy-powered livelihood appliances</u>; examining country-wide residential energy consumption patterns; raising consumer engagement on power issues; piloting business models for solar rooftop adoption; developing a renewable energy project performance dashboard; <u>green hydrogen</u> for industry decarbonisation; <u>state-level modelling for energy and climate policy</u>; reallocating water for faster economic growth; <u>creating a democratic demand for clean air</u>; raising consumer awareness on



THE COUNCLL sustainable cooling; and supporting India's electric vehicle and battery ambitions. It also analyses the <u>energy transition in emerging economies</u>, including Indonesia, South Africa, Sri Lanka and Viet Nam.

The Council has a footprint in 21 Indian states, working extensively with state governments and grassroots NGOs. It is supporting <u>power sector reforms in Uttar Pradesh</u> and Tamil Nadu, scaling up <u>solar-powered irrigation in Chhattisgarh</u>, supporting <u>climate action plans</u> in Gujarat and Madhya Pradesh, evaluating community-based <u>natural farming in Andhra Pradesh</u>, examining <u>crop residue</u> <u>burning in Punjab</u>, and promoting <u>solar rooftops in Delhi and Bihar</u>.