

2020
EREA TECHNICAL REPORT

**REVIEW THE NRIs GRID CODE AND INTERCONNECTION
PROCEDURES**

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8th Floor, NSSF Mafao House, Old Moshi Road

P.O. Box 1669, Arusha, Tanzania

Website: <http://www.energyregulators.org>

Tel: +255 27 2520 170/1

This work is the product of the Technical Portfolio Committee of the Energy Regulators Association of East Africa. The findings and conclusions expressed in this work reflect the views of EREA Secretariat, the Executive Council and the General Assembly.

Attribution- Please cite the work as follows: EREA.2020 EREA. *Technical Report 2020: Review the NRIs Grid Code and Interconnection Procedures.* Arusha: EREA

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P.O. Box 1669, Arusha, Tanzania: email: EREAhub@energyregulators.org

Country	Existence of Grid Code	FEATURES (INCLUDE GAPS AND CHALLENGES)	NRI Remarks
BURUNDI	Does not exist	Draft Grid Code is in place	
KENYA	Exists	<ul style="list-style-type: none"> • There are a transmission and distribution codes • There is a chapter in the grid code on the East Africa Power Pool • Transmission code has a chapter on renewable energy plants – sets out the requirements of connecting RE, especially wind and solar plants • The Codes were last updated in 2016 	<p>The Grid Code needs to be officially published for use.</p> <p>There is a need to appoint the grid code review committees which will be responsible for periodic review of the Grid Code</p>
RWANDA	It exists since 2013	Does not include provisions related to the integration of renewable energy resources.	It is aligned with the EAPP interconnection code and therefore would facilitate regional power trade.
TANZANIA	It exists since 2012. Revised and Version 2 was published in 2017	It covers network, system operations, scheduling and dispatching, metering, information exchange and transmission tariffs.	<ul style="list-style-type: none"> • It has been officially published in the Government gazette. • May need to be aligned with other NRI and EAPP.

UGANDA	N/A	N/A	N/A
ZANZIBAR	Does not exist	Plans to benchmark with other NRIs	

Note:

N/A means **Not Available** to the TPC at the time of the meeting

The grid code and interconnection procedures highlighted above have a similar core function of interconnecting networks. However, some differences arise from the differences in Electricity regulations of the different NRIs.

Uganda has a power exchange with Kenya and Tanzania

Kenya has exchanges with Uganda and Tanzania and is working on connecting with Rwanda.

From the review of the Grid Code, it is evident that the countries with power exchange need to harmonise the requirements and implement wheeling agreements to foster power exchange between countries.

The focus areas include:

- i) adopting the grid code to power exchange,
- ii) develop a framework for system operators to implement the code
- iii) Enhance code capacity to define operational limits of large grid-tied variable renewable energy (wind and solar)
- iv) Operationalise grid codes after they are developed or reviewed