

Host Utilities



Co - Host Utilities



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India
SMART UTILITY
Week 2024

Supporting Ministries



MINISTRY OF POWER
GOVERNMENT OF INDIA



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RIVER DEVELOPMENT & GANGA REJUVENATION,
GOVERNMENT OF INDIA



MINISTRY OF POWER
GOVERNMENT OF INDIA
CENTRAL ELECTRICITY AUTHORITY

Session : DIGITAL TOOLS FOR DER MANAGEMENT

PRESENTATION TOPIC

Presented By

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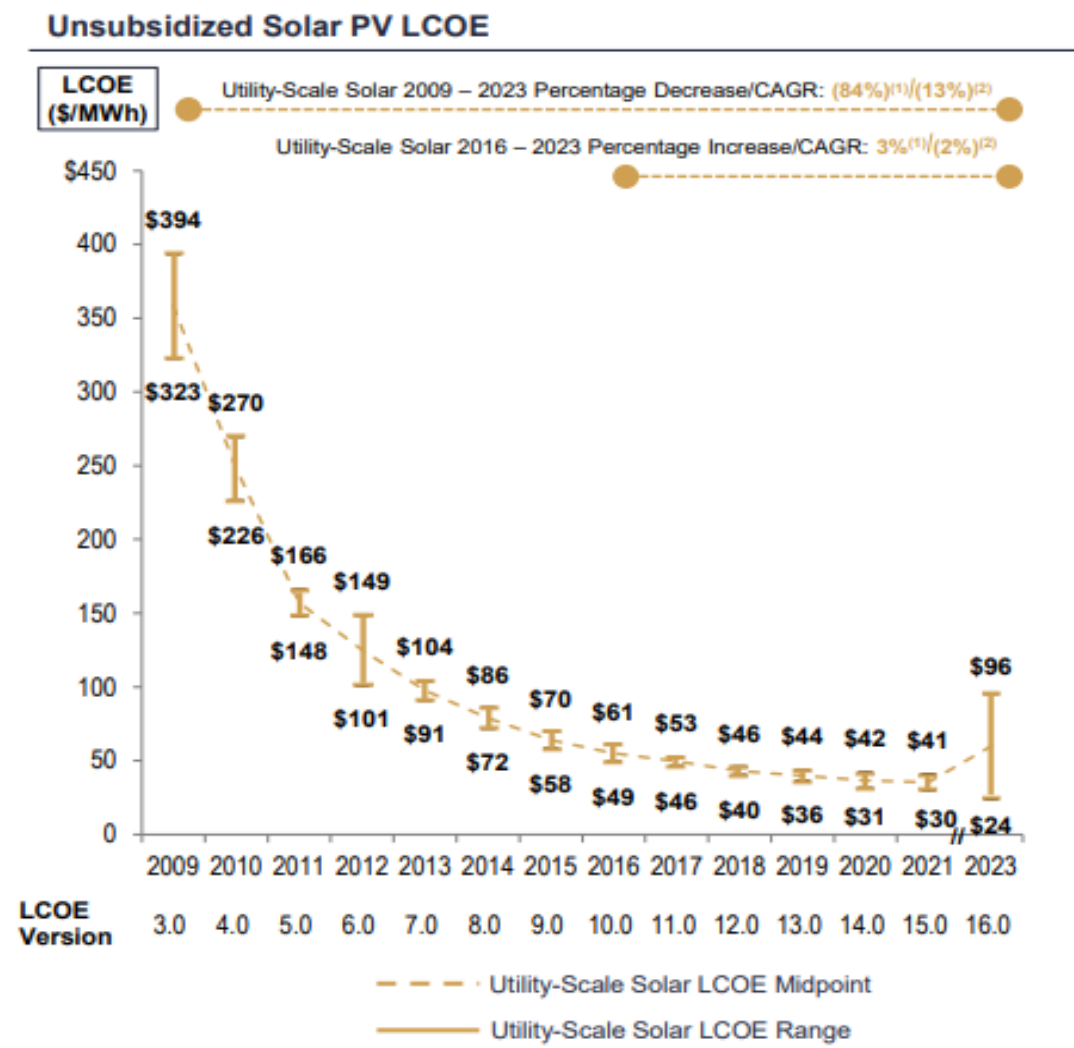


@indiasmartgridforum

Distributed Generation is happening!

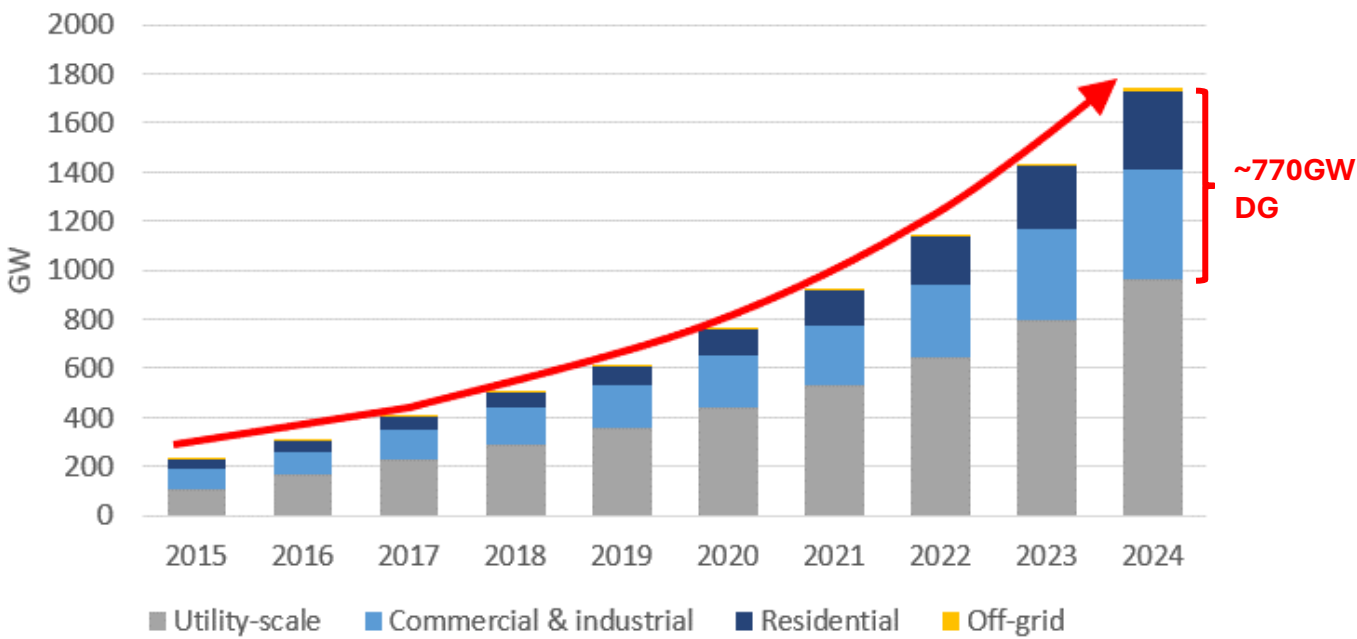


Global Trends: Distributed Generation



Source: Lazard 2023 LCOE

Solar PV power capacity 2015-2030

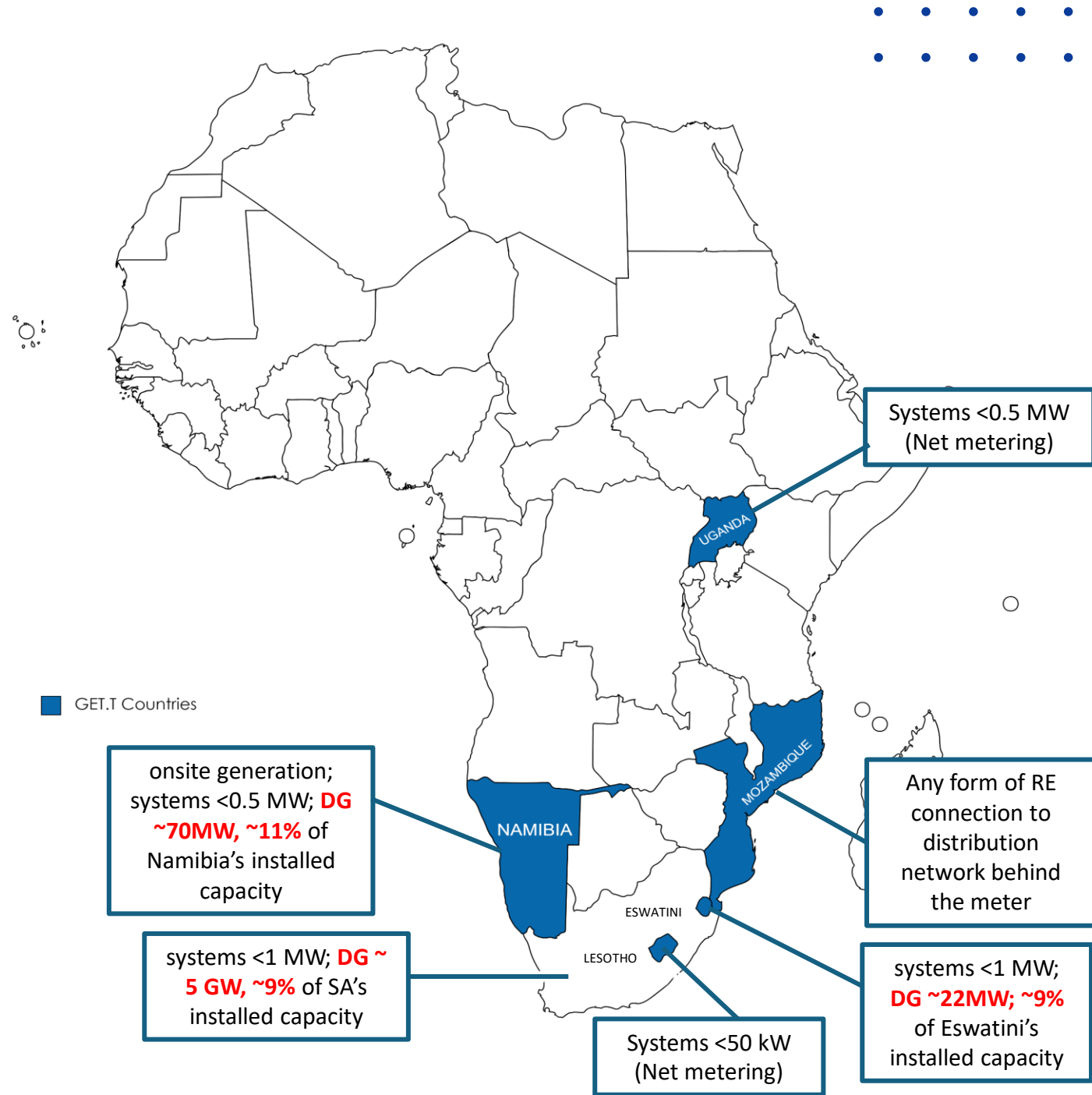


Source: IEA 2023, Unlocking the Potential of Distributed Energy Resources

Distributed Generation in partner countries

- Small-scale generation, mostly solar PV, which is connected at low- or medium voltage on the distribution network
- Typically small – often below 1MW, but maybe be as large as 20 MW

South Africa alone adds **~273 MWp** per month on average



Distributed Generation (DG) Regulation and Permitting

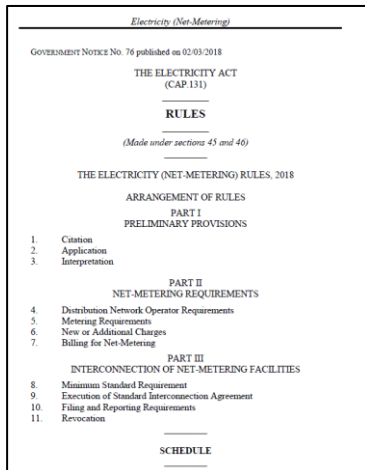
Key elements to enabling Distributed Generation implementation

Hi-level Enabling Environment:

Electricity Act, Electricity Regulation Act, Policies, Renewable Strategies, Masterplans, IRPs etc

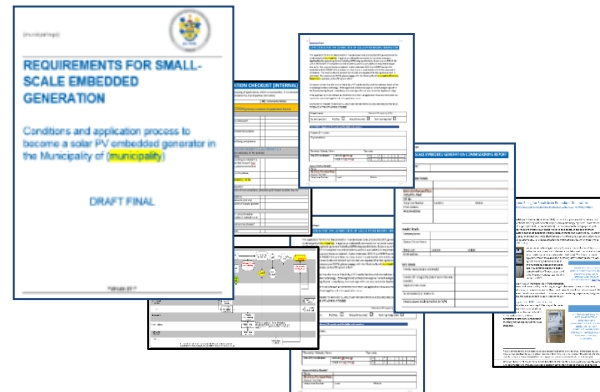
REGULATORY FRAMEWORK

DG Connection and Net Billing Rules



UTILITY REQUIREMENTS & PROCESS

Utility Requirements document and Permitting process (forms etc)



Useful DG standards / specifications

Utility interface Standard (power quality, safety...)

Simplified Connection Criteria (impact within feeder limits)

Solar PV DC wiring standard

Tariffs and Revenue

Metering and Billing

Training / Capacity Building



APUA always emphasizes the need to consider the energy sector and electric power as the number one priority for developing any economy.

COP 28's outcomes fits to our position to combine gas and nuclear energy to built base load to support the just energy transition.

We need **more resilient utilities to build its business model** with the confident support of governments and based on the interests of owners and customers.

Finally, policy makers, investors and all stakeholders should understand that we cannot have a real development of the energy sector in Africa if we do not combine **the harmonious development of energy - electricity - mining - local processing and trade on the one hand and the use of all technologies and all energy sources in respect of the environment on the other. APUA supports Distributed Generation promotion.**

THANK YOU

*For discussions/suggestions/queries email: **isuw@isuw.in***

visit: www.isuw.in

Links/References (If any)