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Perspectives for Solar PV in Africa

Nopenyo E. Dabla

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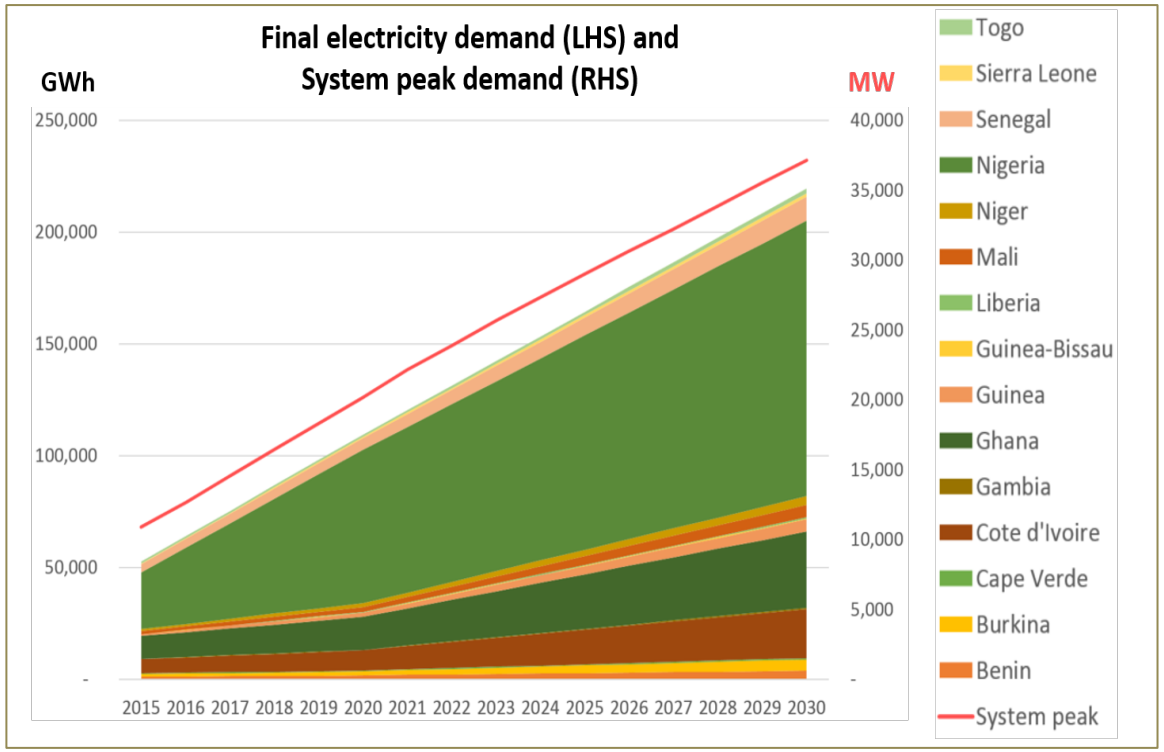
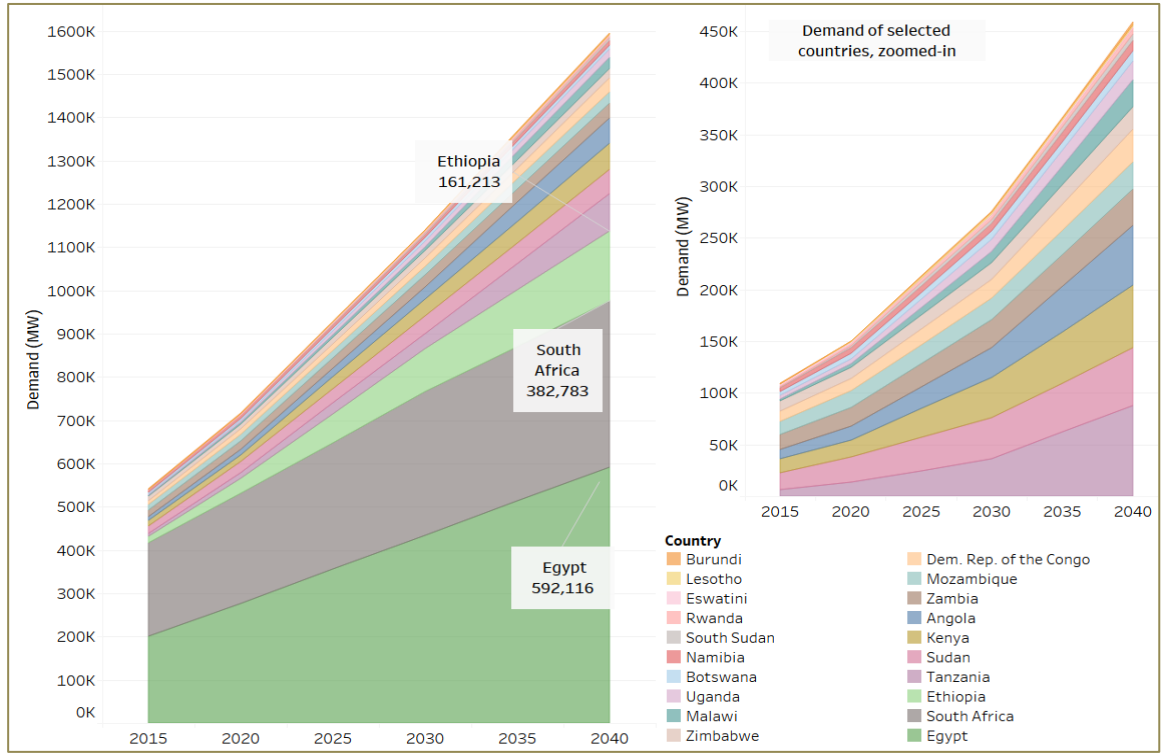
Electricity Demand Projections

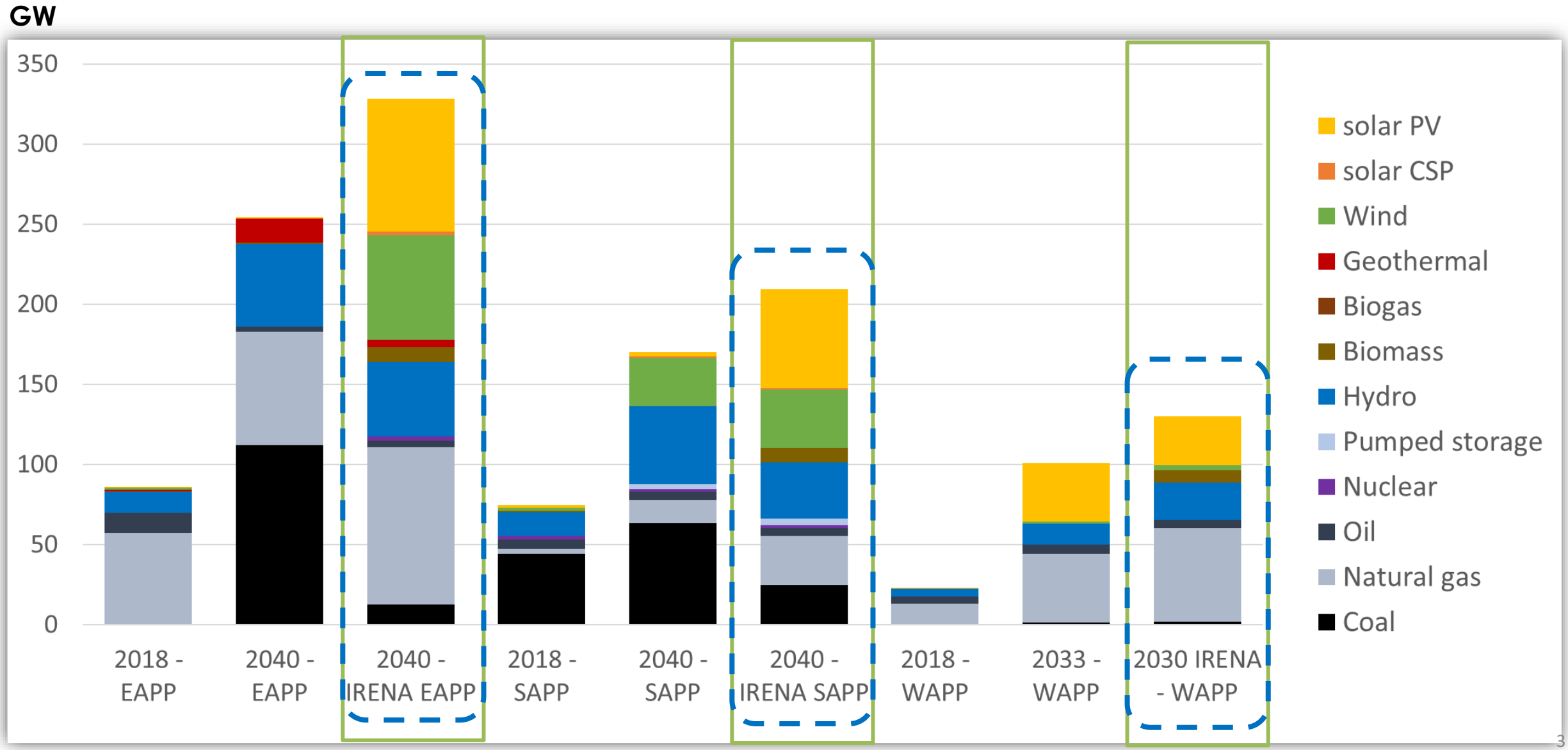
West Africa (2030)



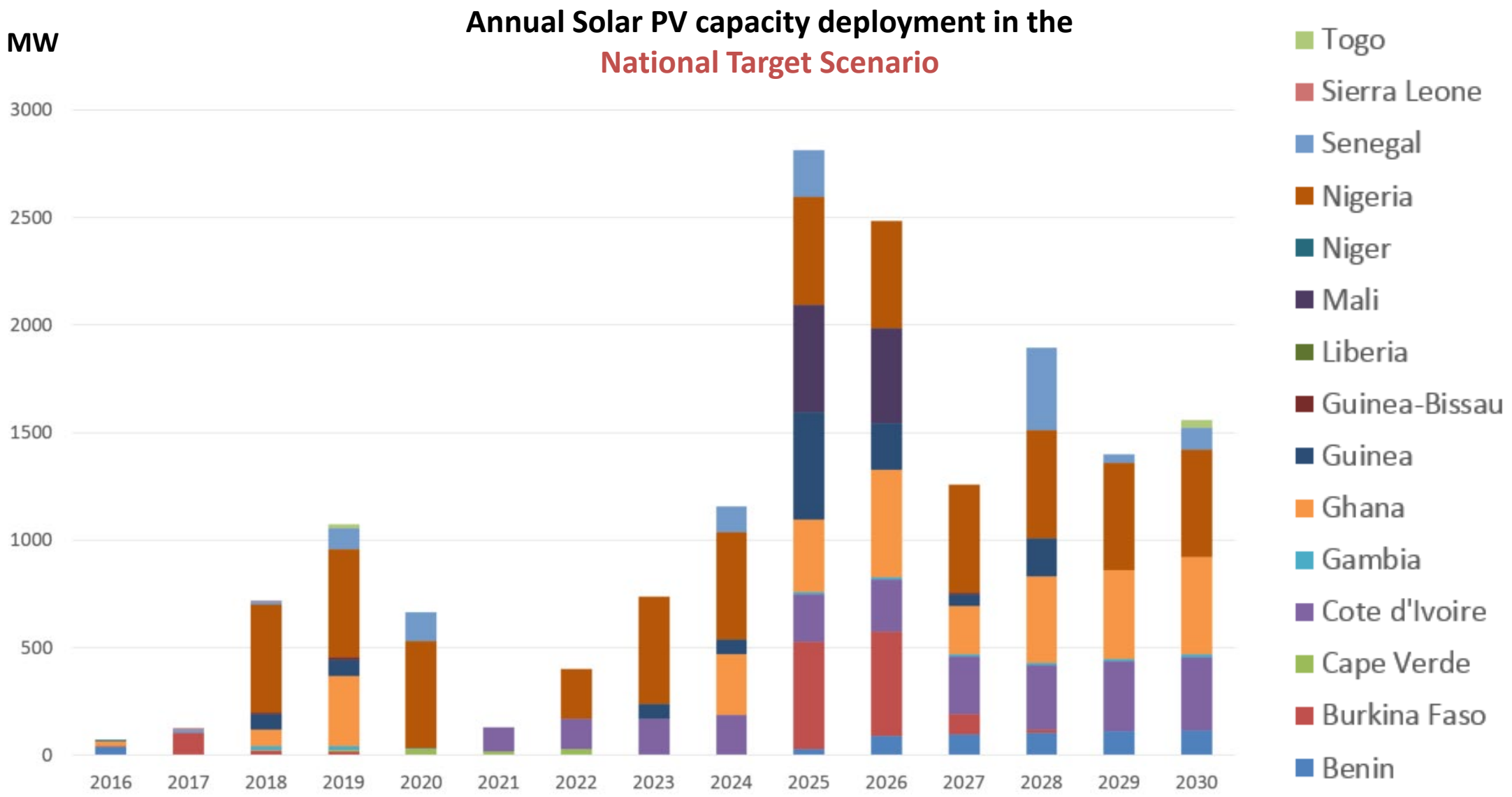
Eastern & Southern Africa (2040)



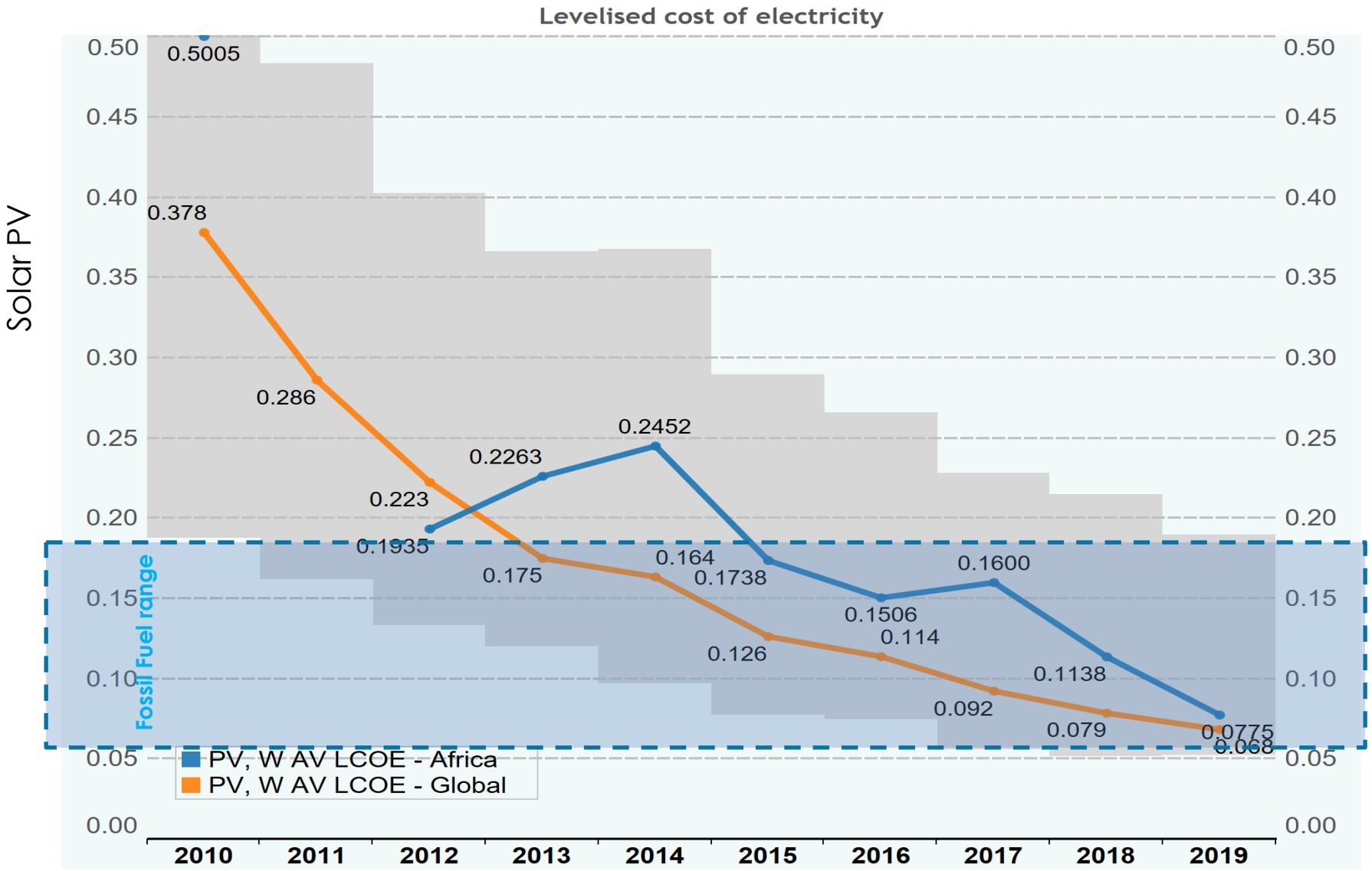
IRENA's Analysis across African Power Pools



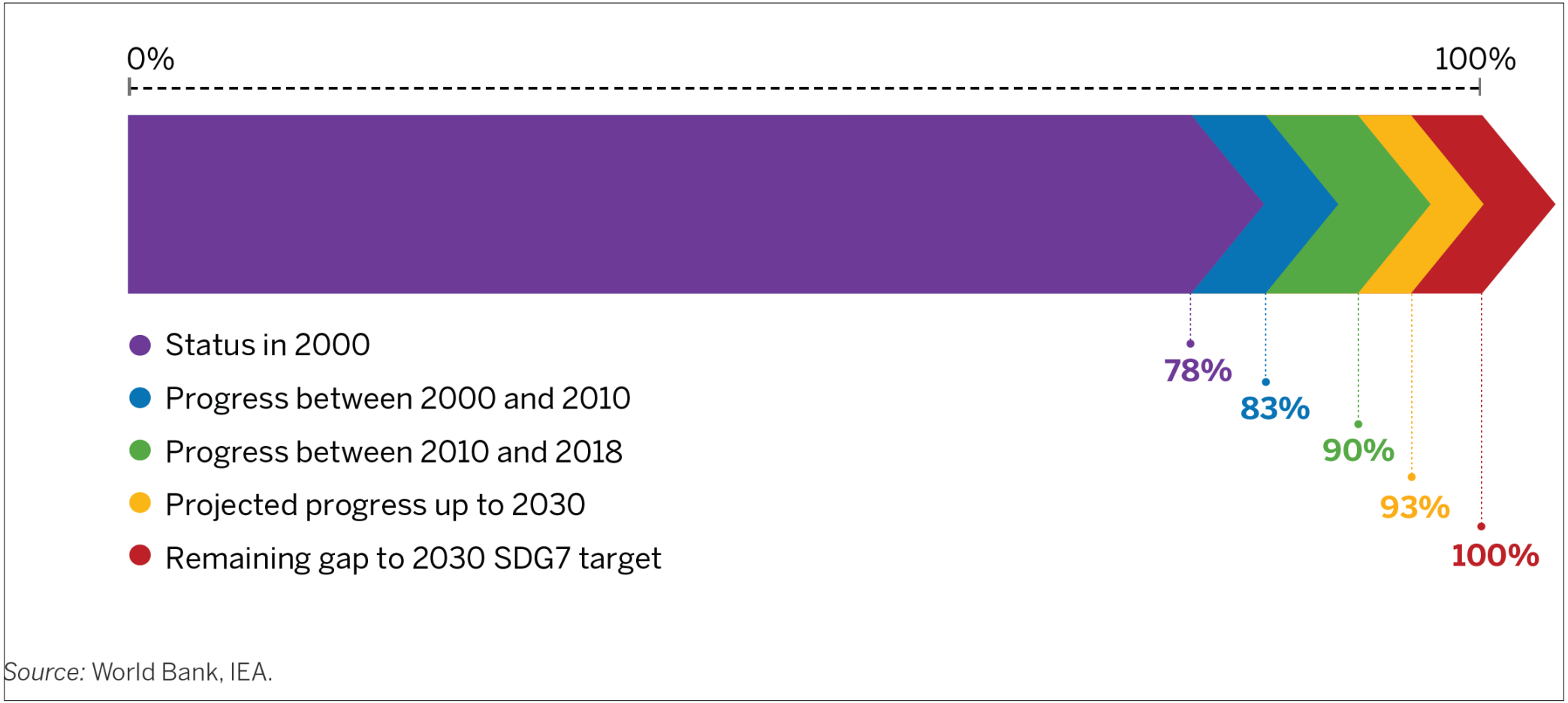
Annual Solar PV market in ECOWAS to 2030



Levelised cost of electricity in Africa (USD/kWh)



Solar PV to Power Electricity Access to 2030 and beyond



530 million Africans will lack electricity in 2030 ≈ 80 million households

Solar PV to Power Electricity Access to 2030 and beyond

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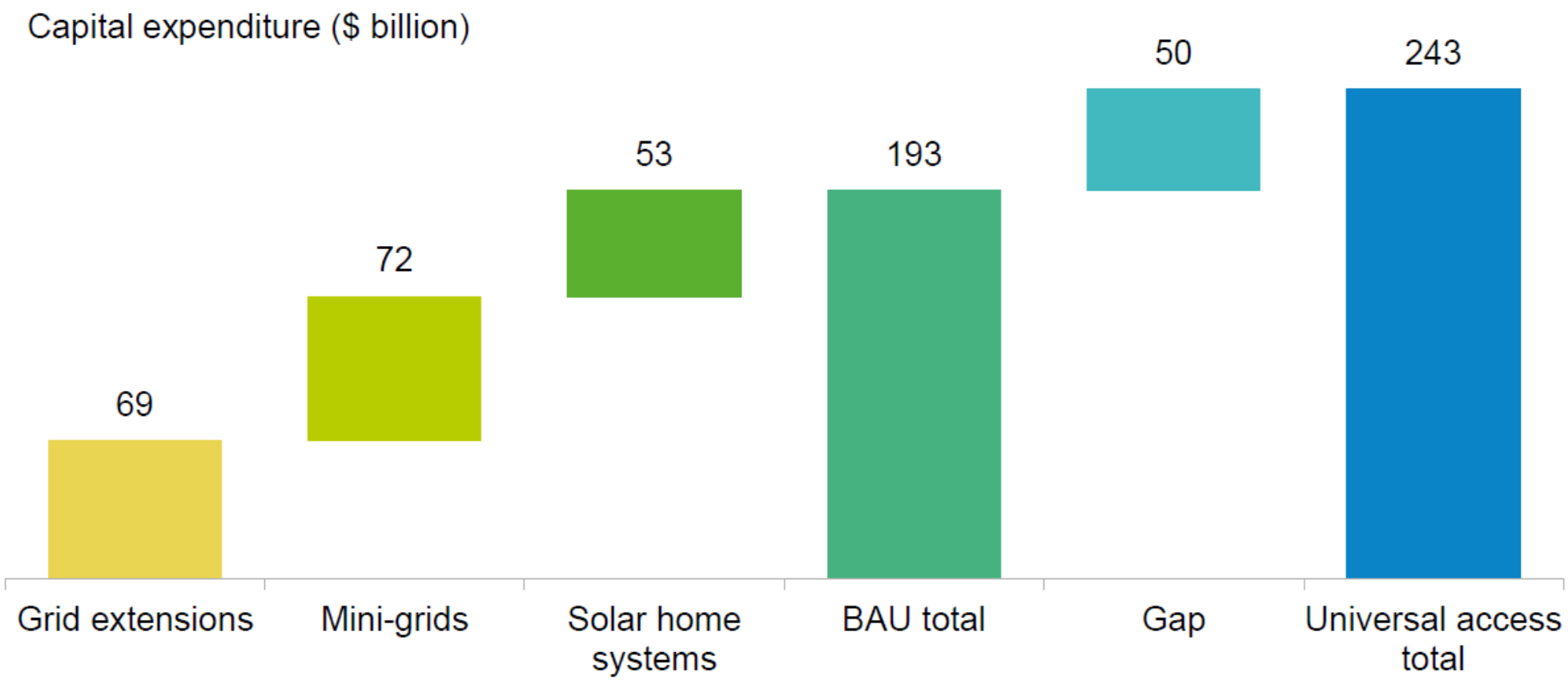
Projected electricity access investments, 2020–30



Source: BloombergNEF.

Renewables Readiness Assessments: Key Intervention Areas

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Mali (2019)

Egypt[1] (2018)

Tanzania (2017)

Djibouti[2] (2015)

Ghana (2015)

Mauritania (2015)

Eswatini[2] (2014)

Zambia (2013)

The Gambia (2013)

Niger (2013)

Mozambique[2] (2012)

Senegal (2012)

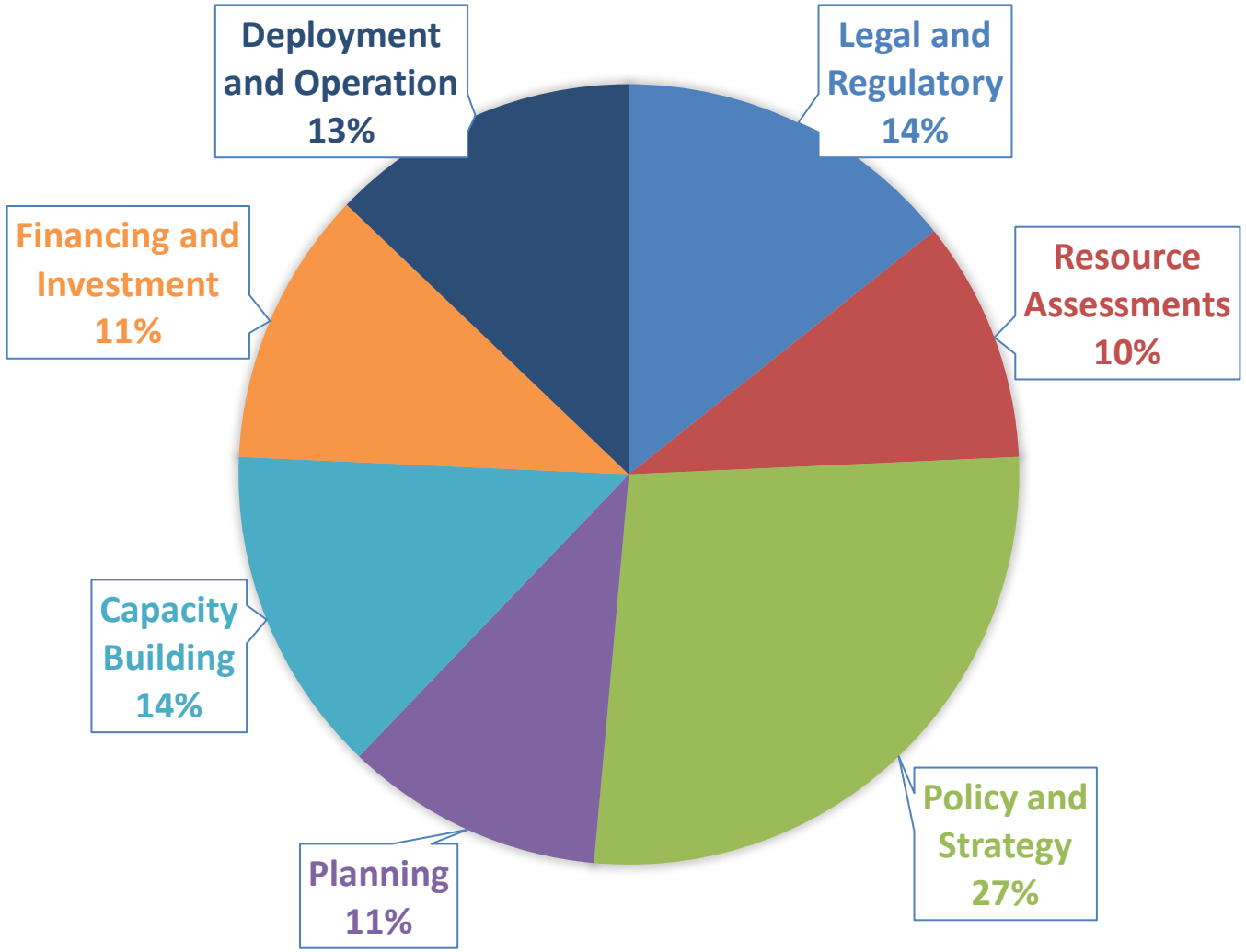
Tunisia (2020)

Botswana (2020)

Burkina Faso (2020-21)

[1] RRA-REmap combined

[2] Post-RRA technical support



IRENA's Support to Countries and Regions

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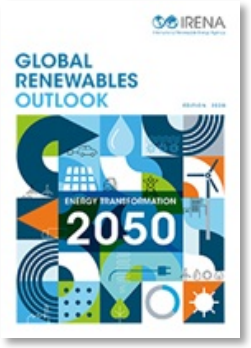
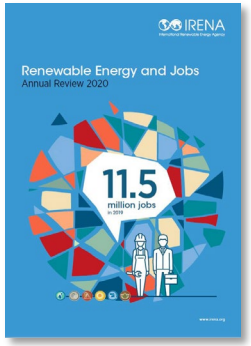
Capacity Building

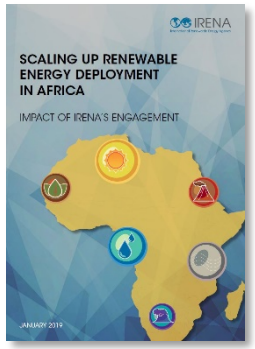
- Resource Assessment
- Planning and Operation of Grids with Higher Shares of VRE
- Renewable Energy Power Purchase Agreements
- Power Procurement
- Data Collection, Management and Dissemination

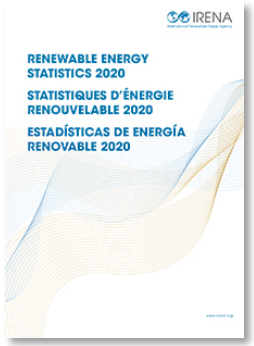
Enabling Frameworks

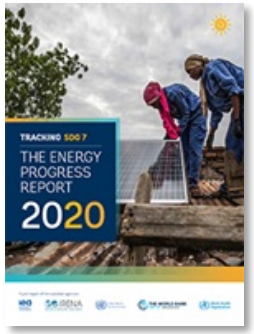
- Renewables Readiness Assessments (National)
- REmap Analyses (National/Regional)
- Renewable Energy and Planning Prospects (Regional)
- Grid stability studies (National)
- Regulatory Support (Regional and National)











Project Facilitation

Technical Assistance for Stronger Enabling Frameworks

- *NDC implementation plans, investment frameworks, capacity building*

Project Pipeline Development

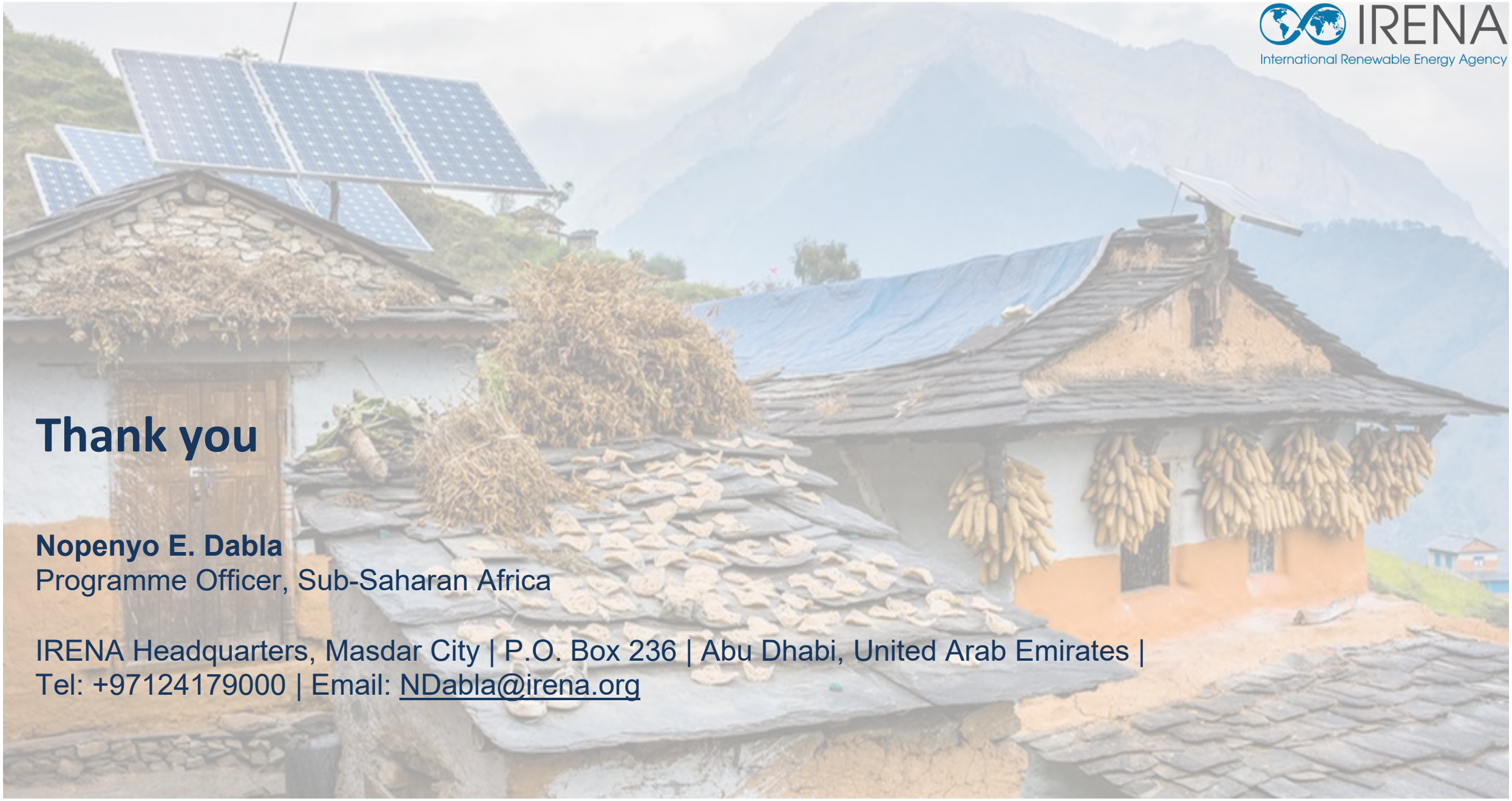
- *Identification of a pipeline of public and private projects backed by governments*

Climate Investment Platform (CIP) and IRENA Project Facility 2.0

- *Project pre-screening*
- *Project preparation support for improved bankability*
- *Facilitation of access to finance*

Investment Forums

- *Regional interactive platforms in 14 regional clusters for matchmaking of investor-ready projects and enhanced government-investor dialogue*



Thank you

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