Annex A – Indicative Data Requirements by Dimension

The following variables are indicative of the data to be compiled as annual series covering 2005–2025 for each of the five countries. The list is indicative and will be finalized with TAF during contract negotiation.

A.1 Security of supply

- Total primary energy supply by fuel; domestic energy production by fuel.
- Energy imports, exports, and net imports; crude oil and petroleum product imports; gas / LNG imports, coal imports and/or coal import dependence.
- Electricity generation by source; installed power capacity by source; available or dependable capacity (where available); peak demand (load).
- SAIFI, where available.
- Strategic or commercial oil reserves, measured in days of imports or consumption
- Transmission and distribution losses; SAIDI; electricity access rate.
- Population; real GDP, nominal GDP, and GDP (PPP) as needed.

A.2 Affordability and economic accessibility

- Household electricity price or tariff schedule (to compute a 200 kWh/month bill); average industrial electricity price.
- Average household income or income per capita; total household expenditure; household expenditure on electricity; household expenditure on energy (where available from household surveys).
- Value of energy imports; value of oil imports; nominal GDP.
- Overall CPI; CPI for electricity/fuel/energy (or the nearest available category).

A.3 Environmental sustainability

- CO_2 emissions from energy; CO_2 emissions from electricity and heat (where available); energy CO_2 emissions per GDP; energy CO_2 emissions per capita; power-system emission factor.
- Total primary energy supply by fuel; share of renewables in total primary energy supply.
- Electricity generation by source; share of wind and solar in generation.

A.4 System resilience and adaptability

- Electricity storage capacity, including battery and pumped storage (where available); cross-border interconnection capacity; peak demand.
- Flexible capacity by simple proxy (dispatchable hydro, gas, oil/diesel, storage — where separable).
- Transmission and distribution grid investment, where available.
- Basic financial information of the main utility: revenue, profit/loss, debt, cash flow (where public); electricity imports and exports.

A.5 Contextual and early-warning evidence

- Import-source concentration (HHI) for oil and gas / LNG in recent years (e.g., 2015, 2020, 2023/2024); share of imports from the largest and the three largest suppliers.

- Evidence of power shortages, load shedding, energy not supplied, or major blackouts; SAIDI attributable to natural disasters (where available).
- Wind/solar curtailment (where available); grid congestion in renewable-rich areas (where available).
- Delays in key generation or grid projects; days of oil reserves or fuel stocks; damage or disruption to energy infrastructure from natural disasters (where available).
- Information on deployment of smart grid, SCADA/EMS, and load / variable renewable energy forecasting.