# Annex B. Evaluation matrix (inception report)

| Evaluation questions (EQ) | | Indicators/descriptors | Data collection methods | Data analysis methods |
|---|---|---|---|---|
| **EFFECTIVENESS** | | | | |
| EQ1 | To what extent the LIOP energy interventions are carried out according to expectations and produce the desired change (SOs)? | Direct and indirect contributions of the Specific Objective (SO) to Romania's committed targets:<br><br>SO 6.1: RES share<br><br>SOs 6.2, 6.4: Energy efficiency (industrial)<br><br>SO 6.3: Energy efficiency (households) and rollout of smart metering<br><br>SOs 7.1, 7.2: Energy efficiency / reduction of DH losses<br><br>SO 8.1: RES share<br><br>SO 8.2: Interconnectivity; households' access to gas | Desk review (including project operational reports, where available, and secondary data sources)<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>SWOT<br><br>Benchmarking<br><br>Estimated sample of projects[14]:<br><br>—Selected projects from SOs 6.1–6.4, 7.1<br><br>—Project SOs 7.2 and 8.1<br><br>—Inter-connection project SO 8.2; sample of distribution projects from SO 8.2 |
| EQ2 | What factors influence the results of the LIOP energy interventions? | —Economic: economic growth increases demand of energy, additional efforts needed to decarbonize generation | Desk review (including secondary data sources)<br><br>Semi-structured interviews<br><br>Focus groups | Quantitative and qualitative analysis of primary and secondary statistical data |

[14] As of today, it is unclear whether sampling of projects will be needed to carry out the evaluation. The evaluation team will consider the final status of the program implementation as of December 31, 2020. This is also to assess the latest potential reallocation before program closing. If sampling is required, the sampling methodology will be included in the associated evaluation report.

| | | and improve energy efficiency<br><br>—Demographic and Geographic: mismatch between energy demand and supply regional patterns; shifts in energy demand structure require efforts to bridge the gaps<br><br>—Legislative framework: legal and regulatory instability affecting interest of beneficiaries in accessing LIOP available funds<br><br>—Availability of complementary resources: potential for scale-up of proposed interventions (particularly SOs 6.1–6.4) | Case studies | ToC<br><br>Selected sample of projects<br><br>PEST<br><br>Benchmarking |
|---|---|---|---|---|
| **COHERENCE** | | | | |
| EQ3 | To what extent are the LIOP energy interventions coherent with national strategies, plans and programs? | Contribution of LIOP interventions to overall targets committed to in Romania's relevant national energy policies | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>SWOT<br><br>Benchmarking<br><br>Selected sample of projects |
| EQ4 | To what extent are the LIOP energy interventions coherent with strategies at the European level (EU energy and climate strategies)? | Contribution of LIOP interventions to Romania's commitments (Europe 2020, but also new directions in the Green Deal and Next Generation EU) | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC |

| | | | | Selected sample of projects |
|---|---|---|---|---|
| | | | | SWOT |
| | | | | Benchmarking |

| **EFFICIENCY** | | | | |
|---|---|---|---|---|
| EQ5 | To what extent is the implementation system of the LIOP energy interventions functional and operating efficiently? | Implementation level:<br>—Contracting rate<br>—Status of physical completion<br>—Finalization rate | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>SWOT |
| EQ6 | To what extent are the LIOP energy interventions cost-efficient? | Benchmarking across similar projects from LIOP or other financing sources | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>Benchmarking |
| **IMPACT** | | | | |
| EQ7 | What is the emerging progress in meeting the program/project SO in targeted sectors, territories, and groups since the adoption of the interventions (what are the gross effects)? | Progress in implementation inferred from monitoring output and outcome indicators | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>Benchmarking |

| EQ8 | To what extent may the observed progress be attributable to the funded interventions (what are the net effects)? | Counterfactual based on evolution of similar projects from LIOP or other sources | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>PEST analysis<br><br>Selected sample of projects<br><br>Benchmarking |
|---|---|---|---|---|
| EQ9 | What is the existing/estimated network effect of the funded interventions? | Factual elements of particular relevance to SOs 6.1–6.4: scale-up effects of demonstration / pilot projects | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>Benchmarking |
| EQ10 | To what extent could the effects occur beyond the targeted territory, sectors or groups (estimated spillover effects)? | Spillover effects in other sectors, e.g., labor market, connected sectors such as construction, engineering, etc. | Desk review<br><br>Semi-structured interviews<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>Benchmarking |
| *SUSTAINABILITY* | | | | |
| EQ 11 | To what extent are the effects of the interventions expected to be sustainable over a longer period of time (i.e., possibility of | Lessons learned / contribution of project implementation to preparation and design of other interventions | Desk review<br><br>Semi-structured interviews<br><br>Focus groups | Quantitative and qualitative analysis of primary and secondary statistical data |

| | | | Case studies | ToC |
|---|---|---|---|---|
| | integrating interventions in national sustainable development plans)? | | | SWOT and PEST analysis |
| | | | | Selected sample of projects |
| | | | | Benchmarking |
| EQ 12 | To what extent should the LIOP energy interventions be further funded (i.e. in order to maintain their relevance for the next programming period)? | Implementation level, causes for adjustments during implementation | Desk review<br><br>Semi-structured interview<br><br>Focus groups<br><br>Case studies | Quantitative and qualitative analysis of primary and secondary statistical data<br><br>ToC<br><br>Selected sample of projects<br><br>SWOT and PEST analysis<br><br>Benchmarking |