



## Country Training Course 2

### Capacity Building on Long-Term Energy Planning in the Republic of Sierra Leone

August 27 – September 7, 2018  
Freetown, Sierra Leone

Location: Electricity Generation and Transmission Company (EGTC), Freetown

**Objectives of the course: (1) finalizing the SPLAT-Sierra Leone model and scenario set-up (incl. non-power sector), (2) developing the scenarios and evaluating the scenario metrics, and (3) drafting the Masterplan chapters for presentation to the Ministry.**

### AGENDA

*The below agenda will be implemented flexibly according to the progress the team makes, and any additional needs that may arise during the course will be addressed as the course progress.*

#### DAY 1: AUGUST 27 MONDAY MORNING

09:30 – 09:45	<b>Welcome remarks</b>	Sierra Leone official (Ministry of Energy)
09:45 – 10:30	<b>Recap of Country Training course 1</b>	Mario Tot (IRENA/EIHP)
10:30 – 10:40	<b>Preview of the Training course agenda</b>	All participants
10:40 – 11:10	<b>Discussion of progress since Country Training course 1</b> (discussion to be led by leaders of the working team)	Ministry of Energy, working team
11:10 – 11:40	<b>Recap the to-do list from Country Training course 1</b> <ul style="list-style-type: none"> <li>• Assess the status of completion of each item</li> <li>• As necessary, re-distribute work and set timelines</li> </ul>	Working team, Lennart Kuntze (IRENA)
11:40 – 12:30	<b>Problems encountered in coordination and training preparation – how to improve?</b> <ul style="list-style-type: none"> <li>• More clearly establish team leads?</li> <li>• TORs for the working team</li> <li>• How could the Ministry and IRENA help?</li> </ul>	Working team, Lennart Kuntze (IRENA)

12:30 – 13:30	Lunch break	
13:30 - 14:30	<b>Recap: how the SPLAT excel interface works</b> (with updates)	Bassam Ben Ticha (IRENA/STEG)
14:30 – 16:00	<b>Hands on Exercise on the SPLAT Excel interface</b> <ul style="list-style-type: none"> <li>• Extracting the data</li> <li>• Reviewing the input assumptions</li> <li>• Comparison of results from the Country Training course 1 with the updated version of the interface</li> </ul>	Working team

## DAY 2: AUGUST 28 TUESDAY

09:30 - 11:00	<b>Discussion on the demand template</b> <ul style="list-style-type: none"> <li>• Demonstration on how to use the template</li> <li>• Discussion and finalization of electricity demand assumptions</li> </ul>	Mario Tot (IRENA/EIHP); working team
11:00 - 11:45	<b>Discussion on mining demand</b> <ul style="list-style-type: none"> <li>• Introduction of the topic</li> <li>• Presentation of different options (incl. pros and cons)</li> <li>• Team discussion on how to model mining demand</li> </ul>	Bassam Ben Ticha (IRENA/STEG); working team
11:45 - 12:30	<b>Presentation of the load profile template</b> <ul style="list-style-type: none"> <li>• Functionality and how the load profile is represented in the SPLAT model (incl. how to change/adjust it)</li> </ul>	Bassam Ben Ticha (IRENA/STEG); working team
12:30 - 13:30	Lunch break	
13:30 - 14:20	<b>Discussion on hydro potential</b> <ul style="list-style-type: none"> <li>• Definition of hydro potential (e.g., list of projects, earliest possible first year, regional cooperative projects)</li> <li>• Presentation on how to change the hydro potential in the SPLAT model through MESSAGE interface</li> <li>• Hands on application by the working team</li> </ul>	Bassam Ben Ticha (IRENA/STEG); working team
14:20 - 15:10	<b>Discussion on gas availability</b> <ul style="list-style-type: none"> <li>• Definition of gas potential (e.g. source of natural gas, cost, infrastructure)</li> <li>• Presentation on how to change parameters regarding gas</li> <li>• Hands on application by the working team</li> </ul>	Bassam Ben Ticha (IRENA/STEG); working team
15:10 - 16:00	<b>Discussion on biomass as a source for power</b> ( <i>as per need</i> ) <ul style="list-style-type: none"> <li>• Definition of biomass potential</li> <li>• Presentation on how to change the parameters regarding the potential for biomass as a source of power</li> <li>• Hands on application by the working team</li> </ul>	Mario Tot (IRENA/EIHP); working team

### DAY 3: AUGUST 29 WEDNESDAY

09:30 – 10:00	<b>Recap of the base case results</b>	Bassam Ben Ticha (IRENA/STEG)
10:00 – 10:30	<b>Recap of scenario approach</b>	Mario Tot (IRENA/EIHP)
10:30 – 11:00	<b>Recap of the basic metrics for scenario comparison</b> <ul style="list-style-type: none"><li>• Discussion for additional metrics aligned to SDG objectives</li></ul>	Lennart Kuntze (IRENA)
11:00 – 12:00	<b>Discussion of possible scenarios</b> <ul style="list-style-type: none"><li>• Finalize which scenarios to be developed</li><li>• Identification of tasks</li><li>• Sub-team discussion on what needs to be done in order to implement the scenarios → presentation of tasks to group</li></ul>	Working team
12:00 – 12:30	<b>Recap of how to create scenarios in the SPLAT-SL model</b>	Lennart Kuntze (IRENA)
12:30 – 13:30	Lunch break	
13:30 – 16:00	<b>Work session (in sub-groups)</b> <ul style="list-style-type: none"><li>• Develop scenarios and analyse them</li><li>• Compare the metrics against the base case</li></ul>	Working team (group work)

### DAY 4: AUGUST 30 THURSDAY

09:30 – 11:00	<b>Presentation of the scenario work from each sub-team</b>	Working team
11:00 – 12:30	<b>Discussion of the further improvement and needs for additional scenarios</b> <ul style="list-style-type: none"><li>• Possible additional work in sub-groups on developing the scenarios, analysing them, and evaluating the metrics</li></ul>	Working team, IRENA
12:30 – 13:30	<b>Lunch break</b>	
13:30 – 14:30	<b>Discussion on non-power sector modelling</b> <ul style="list-style-type: none"><li>• Supply side and demand side aspects</li></ul>	Mario Tot (IRENA/EIHP)
14:30 – 15:30	<b>Energy Balance</b> <ul style="list-style-type: none"><li>• Scrutinizing the energy balance</li></ul>	Bassam Ben Ticha (IRENA/STEG)
15:30 – 16:00	<b>Simple demand projection framework</b>	Lennart Kuntze (IRENA)

### DAY 5: AUGUST 31 FRIDAY MORNING MEETING WITH STEERING COMMITTEE (& WORKING TEAM)

09:30 – 12:30	<b>Meeting with Steering Committee</b> <ul style="list-style-type: none"><li>• Presentations of the scenarios [Team]</li><li>• Presentation of the updated Masterplan outline [Team]</li><li>• Discussion on strengthening the working team</li></ul>	Steering Committee, working team, IRENA
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12:30 – 13:30	Lunch break	
13:30 – 14:30	<b>Discussion of the work and tasks for the second week</b> <ul style="list-style-type: none"> <li>• Mindful of the overall Training objective to develop a set of several scenarios with non-power sector included</li> <li>• As per need, discussion of questions from working team</li> </ul>	Working team, IRENA
14:30 – 15:30	<b>Distribution of tasks to each sub-team</b> <ul style="list-style-type: none"> <li>• Against the Masterplan outline and the overall to-do list</li> </ul>	Working team, IRENA
15:30 – 16:00	<b>Recap summary and wrap up of week 1</b>	Working team, IRENA

#### DAY 6: SEPTEMBER 3 MONDAY

09:30 – 10:00	<b>Recap of the tasks for week 2</b>	Bassam Ben Ticha (IRENA/STEG)
10:00 – 16:00	<b>Work sessions to address work tasks (incl. in sub-groups)</b>	Working team, Bassam Ben Ticha (IRENA/STEG)

#### DAY 7: SEPTEMBER 4 TUESDAY

09:30 – 16:00	<b>Work sessions to address work tasks (incl. in sub-groups)</b>	Working team, Bassam Ben Ticha (IRENA/STEG)
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#### DAY 8: SEPTEMBER 5 WEDNESDAY

09:30 – 11:00	<b>Presentation of the scenario work from each sub-team (with video connection to IRENA and Mario Tot)</b> <ul style="list-style-type: none"> <li>• Discussion of the further tasks to be addressed</li> <li>• Discussion of questions from the working team</li> </ul>	Working team, IRENA
11:00 – 16:00	<b>Work sessions to address work tasks (incl. in sub-groups)</b>	Working team, Bassam Ben Ticha (IRENA/STEG)

#### DAY 9: SEPTEMBER 6 THURSDAY

09:30 – 16:00	<b>Write-up of results for the Masterplan chapters (sub-groups)</b>	Working team, Bassam Ben Ticha (IRENA/STEG)
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**DAY 10: SEPTEMBER 7 FRIDAY**

09:30 – 11:00	<b>Write-up of results for the Masterplan chapters (sub-groups)</b>	Working team, Bassam Ben Ticha (IRENA/STEG)
11:00 – 12:00	<b>Presentation by each sub-group and compilation of all draft chapters into a draft document</b> (based on annotated outline)	Working team, Ministry
12:00 – 13:00	<b>Discussion of next steps and responsibilities</b> <ul style="list-style-type: none"><li>• Develop an overview of next steps and the responsibilities of working team members and submit to IRENA</li><li>• Develop a to-do list of the concrete work to be done, with a target date for completion of each of the listed items</li><li>• Final Comments and Discussion as per need</li></ul>	Working team, Ministry