



SAARC Energy Centre
Islamabad, Pakistan

Agenda

SAARC Training Workshop on 'Financial Modeling for Renewable Energy Projects'

5th-7th October, 2026: Hybrid Mode | Hotel Galle Face, Colombo, Sri Lanka

Sunday, 4th October 2026 — Arrival of Delegates from Member States	
Day 1 - Monday, 5th October 2026	
0900 – 0930	Registration of Delegates
Inaugural Session	
0930 – 0940	Welcome Remarks <i>Mr. Abdul Rasheed Jokhio, Director, SAARC Energy Centre, Islamabad</i>
0940 – 0955	Keynote Address <i>Secretary, Ministry of Energy, Government of Sri Lanka</i>
0955 – 1005	Remarks, Special Guest <i>Hon. Deputy Minister, Ministry of Energy, Government of Sri Lanka</i>
1005 – 1015	Inaugural Speech, Chief Guest <i>Hon. Minister, Ministry of Energy, Government of Sri Lanka</i>
Distribution of Shields by Director, SAARC Energy Centre 1015 – 1030	
Group Photograph and Tea/Coffee Break 1030 – 1110	
Technical Session 1 — Setting the Scene: Renewable Energy Policy, Regulation and Investment Context in the SAARC Region	
1110 – 1125	Introduction to SAARC Energy Centre and Overview of the Training Workshop <i>Ms. Kiran Gautam, Program Leader (ET), SAARC Energy Centre</i>
1125 – 1300	Member State presentations on existing Policy, Regulations, and Investment Mechanisms for Renewable Energy Projects (15–20 minutes each, including Q&A) <i>Delegates from SAARC Member States</i>
1300 – 1330	Global Energy Landscape and Renewable Energy Trends <i>Dr. Tatiana Lanshina, Project Lead, Agora Energiewende, Germany</i>
Luncheon 1330 – 1430	
Technical Session 2 — Renewable Energy Technologies, Global Trends and Regional Market Architecture	
1430 – 1500	Regional Energy Architecture and Technology Fundamentals of Renewable Energy Development in SAARC <i>Solar PV, wind and small hydropower — technology configurations, resource characteristics, cost</i>

	<i>structures and the physical parameters that drive project economics</i> <i>Dr. Irfan Yousuf, Energy, Energy Policy, Private Sector Investment, Tariff, Climate Financing and Carbon Market Expert</i>
1500-1530	Managing the Variability of Wind and Solar Through Innovative Technological Solutions <i>Dr Narendra De Silva, General Manager, Lanka Electricity Company (Pvt) Ltd.</i> Q & A
Tea/Coffee Break 1530 – 1545	
Technical Session 3 — Policy and Regulatory Frameworks, Sources of Finance and the Risk–Return Profile of Renewable Energy Projects	
1545 – 1615	Policy and Regulatory Frameworks for Renewable Energy Projects <i>Policy incentives, regulatory framework, tariff regimes (cost-plus, feed-in, competitive bidding, net metering), licensing, grid access and procurement frameworks</i> <i>Mr. Vivek Mishra, Policy, Regulatory and Financial Expert</i>
1615 – 1700	Types and Sources of Finance and the Risks Assumed in Renewable Energy Projects <i>Equity, debt, grants, concessional and blended finance, guarantees and insurance; risk identification, allocation and mitigation, and the expected return required by lenders and equity providers</i> <i>Dr. Irfan Yousuf, Energy, Energy Policy, Private Sector Investment, Tariff, Climate Financing and Carbon Market Expert</i> Q & A
Welcome Dinner hosted by SAARC Energy Centre 1900 onwards	
Day 2 - Tuesday, 6th October 2026	
Technical Session 4 — Fundamentals of Project Finance and the Architecture of a Renewable Energy Financial Model	
0900 – 0945	Project Finance Terminology and Funding Structure <i>Capital cost build-up (plant and machinery, balance of system, project development and management); treatment of land and cost of land (capitalization versus O&M); debt and equity, drawdown profiles, debt tenure, grace period, construction period; operating cost, working capital, financing cost, interest during and after construction; insurance, depreciation and taxation; return on investment, return on equity during construction and equity redemption</i> <i>Mr. Vivek Mishra, Policy, Regulatory and Financial Expert</i>
0945 – 1015	Model Design, Assumptions and Good Practice for a Bankable Model <i>Sheet architecture and the separation of inputs, calculations and outputs; timelines and flags; treatment of circularity; error and integrity checks; documentation, version control and recognised modelling conventions (FAST Standard, ICAEW Twenty Principles)</i> <i>Mr. Vivek Mishra, Policy, Regulatory and Financial Expert</i>
1015 – 1045	Overview of Software and Tools for Developing Renewable Energy Tariff Models <i>Open-source and free-of-charge platforms — System Advisor Model (SAM) and PySAM; CREST (Cost of Renewable Energy Spreadsheet Tool) for cost-based tariff design; RETScreen Expert (Viewer mode); Comparative strengths, limitations, data requirements and suitability of each tool for regulatory tariff determination and for lender due diligence</i> <i>Dr. Irfan Yousuf, Energy, Energy Policy, Private Sector Investment, Tariff, Climate Financing and Carbon Market Expert</i> Q & A
Tea/Coffee Break 1045 – 1100	

Technical Session 5 — Modelling Assumptions, Energy Yield Estimation and the Contractual Basis of the Cash Flow	
1100 – 1145	Technical and Operating Assumptions underpinning the Financial Model <i>Installed capacity, plant life and land availability; capacity utilisation factor, plant load and plant availability; gross versus net generation (wake losses, shear effect, shading, soiling, resource direction and technical losses); renewable resource variability; electricity generation and electricity sales</i> <i>Dr. Irfan Yousuf, Energy, Energy Policy, Private Sector Investment, Tariff, Climate Financing and Carbon Market Expert</i>
1145 – 1215	Probability of Exceedance, EPA/PPA Terms and a Case Study of Financial Management of an RE Project <i>Incorporating P50, P75, P90 and P99 generation profiles into the model; EPA/PPA provisions that shape the cash flow — term, tariff, metering, billing and payment, dispatch instructions, grid code compliance, insurance, taxes and liabilities, government guarantees, events of default and remedies, security, force majeure, delayed payments and dispute resolution</i> <i>Mr. Vivek Mishra, Policy, Regulatory and Financial Expert</i>
Luncheon 1215 – 1315	
Technical Session 6 — Working Exercise I (Hands-on): Building the Tariff Model from Scratch — Inputs, Capital Cost and Revenue Blocks	
1315 – 1345	Participants, working in country teams, build the foundation of their own tariff model for an assigned solar, wind or small hydropower project <i>Input and assumption sheet; model timeline and period flags; capital cost schedule; equity and debt drawdown; construction period and interest during construction (IDC)</i> <i>Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf</i>
1345 – 1415	Participants build the generation and revenue blocks of the model <i>Net energy delivered and annual degradation; tariff structure — separation of the energy purchase price and the capacity purchase price, and of indexed and non-indexed components</i> <i>Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf</i>
1415-1445	Brief presentation on Aitken Spence Waste to Energy Project <i>Mr. Dinusha Gunaratne,, Deputy General Manager(Plant Manager)Western Power Company (Pvt.) Ltd. , Sri Lanka</i>
Tea/Coffee Break 1445 – 1500	
Field Visit	
1500 – 1800	Site visit to Aitken Spence Waste-to-Energy project (10MW) <i>Mr. Dinusha Gunaratne,, Deputy General Manager(Plant Manager)Western Power Company (Pvt.) Ltd. , Sri Lanka</i>
Day 3 - Wednesday, 7th October 2026	
Technical Session 7 — Working Exercise II (Hands-on): Completing the Tariff Model — Operating Costs, Debt Service and Return Components	
0900 – 0945	Participants build the operating cost block of their model <i>Fixed and variable O&M; insurance; working capital; depreciation and taxation; escalation and indexation mechanisms and their treatment in the tariff</i> <i>Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf</i>

0945 – 1045	Participants build the financing and return block and solve for the tariff <i>Debt service schedules on monthly, quarterly, biannual and annual repayment frequencies; return on equity (ROE); return on equity during construction (ROEDC); equity redemption; derivation of the levelised tariff and the reference tariff table</i> <i>Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf</i>
Tea/Coffee Break 1045 – 1115	
Technical Session 8 — Working Exercise III (Hands-on): Debt Sizing, Financial Statements, Scenario Testing and Presentation of Team Results	
1115 – 1200	Participants complete the model and test it against lender requirements <i>Sizing of debt against multiple covenants (DSCR, LLCR and gearing) for wind and solar projects; development of the income statement, balance sheet and cash flow statement; financial and economic analysis (FIRR, EIRR, NPV, payback and LCOE)</i> <i>Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf</i>
1200 – 1245	Sensitivity and scenario testing, and presentation of results by country teams <i>P50 versus P90 generation, capital cost overrun, interest rate, exchange rate and curtailment scenarios; each team presents its derived tariff and the assumptions behind it, followed by comparative discussion and a facilitator review of common modelling errors</i> <i>Country Teams, Facilitated by Mr. Vivek Mishra, and Dr. Irfan Yousuf Resource Person(s) Q & A</i>
Luncheon 1245 – 1345	
Technical Session 9 — Feedback from Delegates	
1345 – 1415	Reflections and feedback on the training workshop <i>Delegates from Member States</i>
Closing Session	
1415 – 1430	Closing Remarks <i>Mr. Abdul Rasheed Jokhio, Director, SAARC Energy Centre</i>
1430 – 1445	Distribution of Certificates
1445 – 1500	Vote of Thanks <i>Mr. J.I.D. Jayasundra, DG (Technical), Ministry of Energy, Government of Sri Lanka</i>
Thursday, 8th October 2026 — Departure of Delegates from Colombo	

Notes

1. *This agenda is tentative and subject to change; an updated version will be circulated closer to the event.*
2. *All timings are in Sri Lankan Standard Time (SLST).*
3. *Working language of the Training Workshop is English.*
4. *Delegates are requested to share their country presentations electronically with Ms. Kiran Gautam (plet@saarcenergy.org) by 28th September 2026.*
5. *Delegates attending the Training Workshop in Online mode are requested to join the sessions via the Zoom Registration
link: https://us06web.zoom.us/meeting/register/Ow1_yVrPT3eB2AjWaOBEIA#/registration*
6. *Technical Sessions 6, 7 and 8 are hands-on working exercises in which delegates build a tariff model themselves. Delegates are therefore requested to bring a laptop with Microsoft Excel (or LibreOffice Calc) installed, with iterative calculation enabled. A starter workbook, a project data pack and installation links for the tools introduced in Technical Session 4 will be circulated to delegates before the workshop.*
7. *Each Member State delegation is requested to strictly maintain the 15–20-minute limit (including Q&A) for their country presentation to keep the program on schedule.*
8. *For any logistical queries, contact: Mr., Jahanzeb Hassan, SAARC Energy Centre (Cell: +923009775845(WhatsApp), Email: adminofficer@saarcenergy.org)*