



SAARC Energy Centre  
Islamabad

## Agenda of Online Training

### Online Training on “HOMER Software”

29<sup>th</sup> Nov - 3<sup>rd</sup> Dec, 2021 : 1000-1200 hrs Pakistan Standard Time (PKT)

<b>Day-1, Monday 29<sup>th</sup> Nov 2021</b>	
1000 – 1005	<b>Welcome and Introduction</b> <i>Ahsan Javed, Research Fellow (RE), SAARC Energy Centre</i>
1005 – 1010	<b>Opening Remarks</b> <i>Dr. Nawaz Ahmad, Director, SAARC Energy Centre</i>
1010 – 1150	<b>Foundations of HOMER Pro I</b> <i>Introduction to HOMER Pro, demonstration of Simulation and Optimization, modelling small community system, simulating a diesel system, building hybrid micro-grid with solar PV, Sensitivity Analysis (fuel price, capacity shortage), payback and internal rate of return.</i>
1150 – 1200	<b>Q&amp;A Session and Day’s Wrap up</b>
<b>Day-2, Tuesday 30<sup>th</sup> Nov 2021</b>	
1000 – 1005	<b>Welcome and Review of Day’s agenda</b>
1005 – 1150	<b>Foundations of HOMER Pro II</b> <i>Refining design, developing a customized load, sizing diesel generator, size technologies using specific sizes, exporting data.</i>
1150 – 1200	<b>Q&amp;A Session and Day’s Wrap up</b>
<b>Day-3, Wednesday 1<sup>st</sup> Dec 2021</b>	
1000 – 1005	<b>Welcome and Review of Day’s agenda</b>
1005 – 1150	<b>Foundations of HOMER Pro III</b> <i>Interconnected mini-grid design, Net-metered PV system, Feed in Tariffs, PV and Storage for interconnected micro-grids.</i>
1150 – 1200	<b>Q&amp;A Session and Day’s Wrap up</b>
<b>Day-4, Thursday 2<sup>nd</sup> Dec 2021</b>	
1000 – 1005	<b>Welcome and Review of Day’s agenda</b>
1005 – 1150	<b>Advanced Session I: Wind and Solar</b> <i>Solar and Wind design, Multiple Solar arrays, Maximum power point tracker and dedicated inverter, Understanding wind data and turbine models, Scheduled maintenance, detailed modelling techniques.</i>
1150 – 1200	<b>Q&amp;A Session and Day’s Wrap up</b>

Day-5, Friday 3 <sup>rd</sup> Dec 2021	
1000 – 1005	<b>Welcome and Review of Day's agenda</b>
1005 – 1150	<b>Advanced Session II: Large Systems with multiple Diesel Generators</b> <i>Islanded utilities and large village systems, Operating reserves, Solar in large grids, Values of storage in multiple generator systems.</i>
1150 – 1200	<b>Q&amp;A Session and Day's Wrap up</b>
1200 – 1215	<b>Vote of thanks and Closing of Training</b>

## Information for the participants:

1. All times mentioned in agenda are according to Pakistan Standard Time (PKT). The participants from other Member States of SAARC may attend training by following their own national time. The time conversion for all Member States is given below for reference:

Country	Afghanistan	Bangladesh	Bhutan	India	Maldives	Nepal	Sri Lanka
Local time	(PKT-00:30)	(PKT+01:00)	(PKT+01:00)	(PKT+00:30)	PKT	(PKT+00:45)	(PKT+00:30)

2. This online training shall be broadcasted from the office of SEC, Islamabad. The participants can register and join the training through the weblink below:  
(<https://attendeegotowebinar.com/register/2294721868317321997>).
3. All participants should install HOMER Pro on their computer/Laptop before commencing the training. The free trial version of the software can be downloaded from the link below:  
(<https://www.homerenergy.com/products/pro/index.html>).
4. Dr. Peter Lilienthal, Global Microgrid Lead for UL, LLC shall be the lead trainer for this online training. The participants can ask questions to him by typing questions or clicking to the raised hand option into the Attendees pane of the main window of GotoWebinar software. You may send in your questions at any time during the presentations, we will collect these and address them during the Q & A session at the end of each presentation.