



REGIONAL CONFERENCE

INCLUSIVE ENERGY TRANSITION IN SOUTH ASIA AND BEYOND

7–9 MAY 2024 • Galle, Sri Lanka



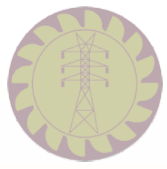


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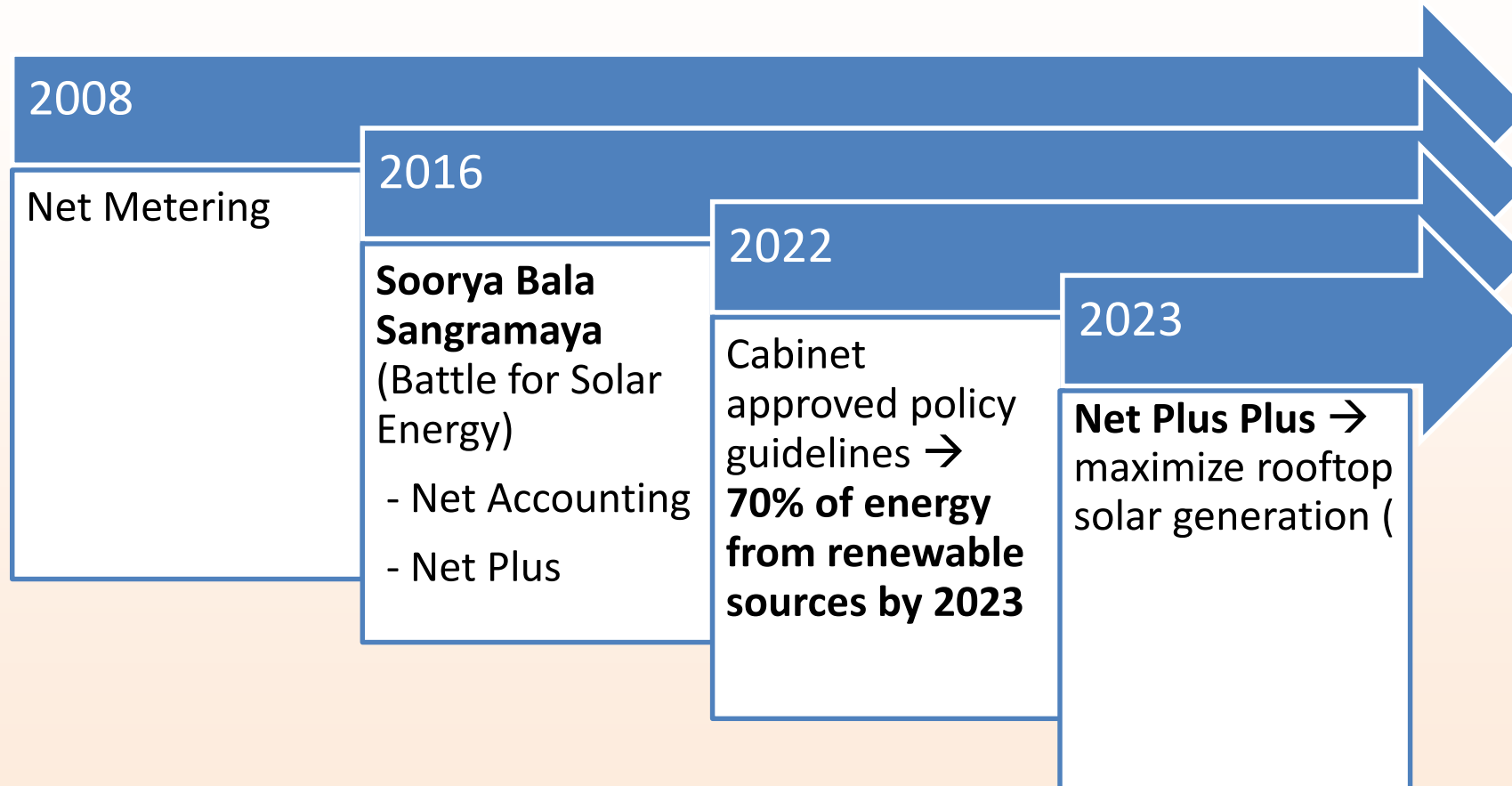
A Utility Perspective of an Inclusive Energy Transition

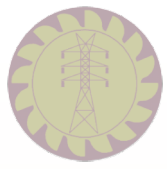
- *Rooftop Solar Initiatives*

Eng. Ronald Comester
Additional General Manager(Transmission-NWO)
Ceylon Electricity Board
Sri Lanka
7th May 2024



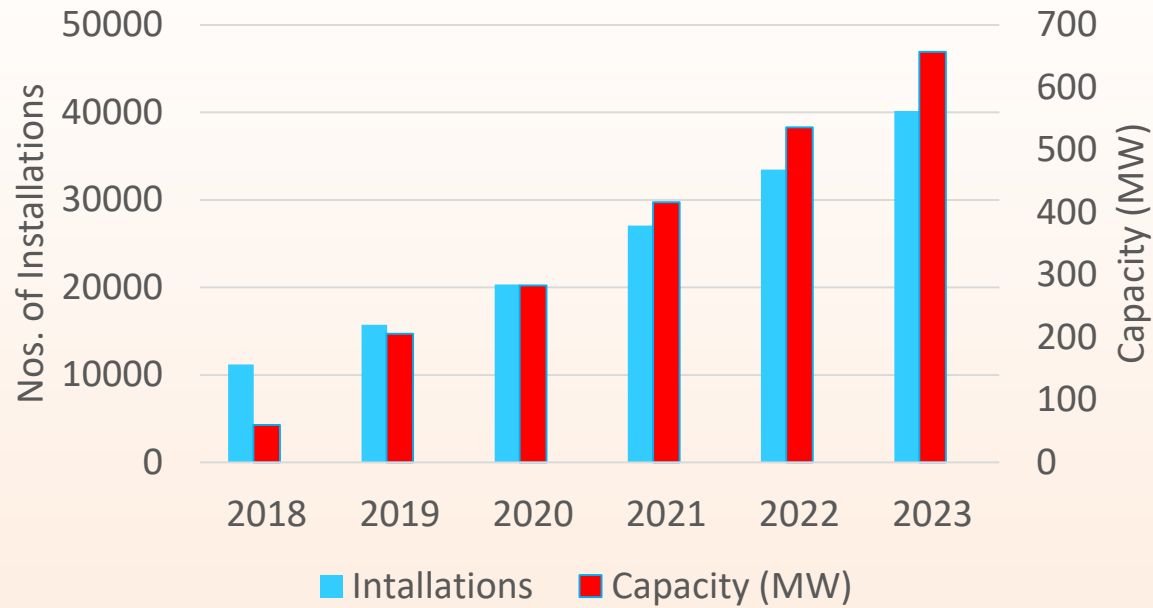
Rooftop Solar Initiatives



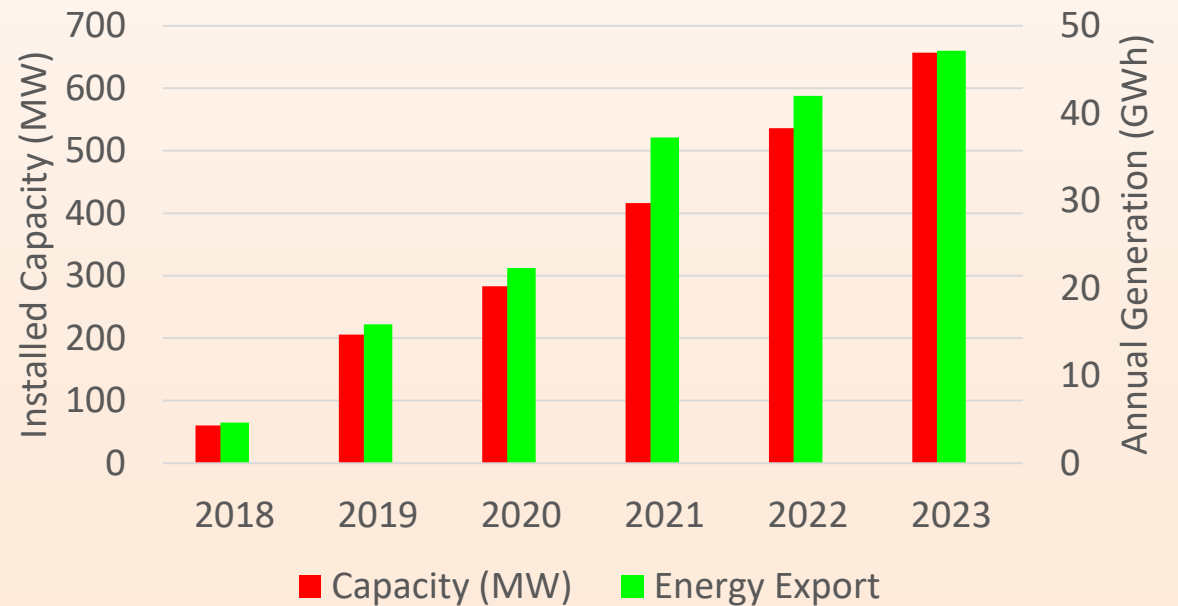


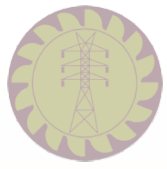
Rooftop Solar Inclusion

RTSPV Installation

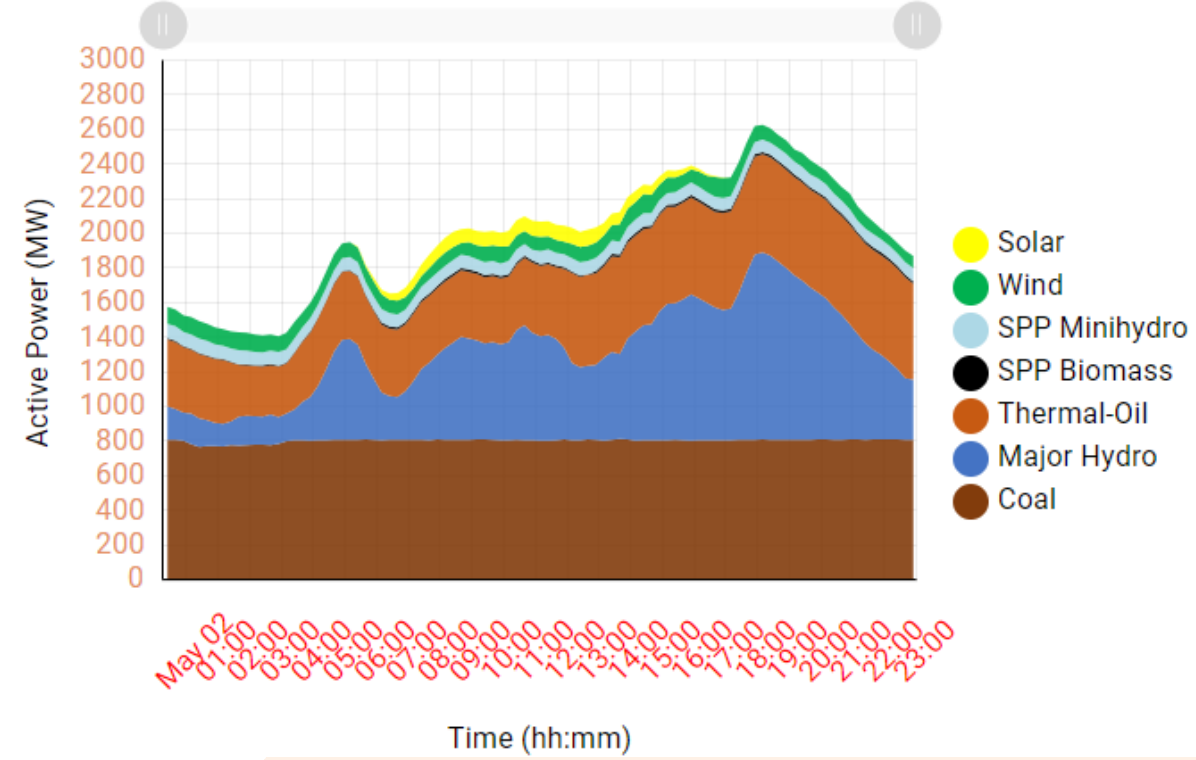


Energy Contribution

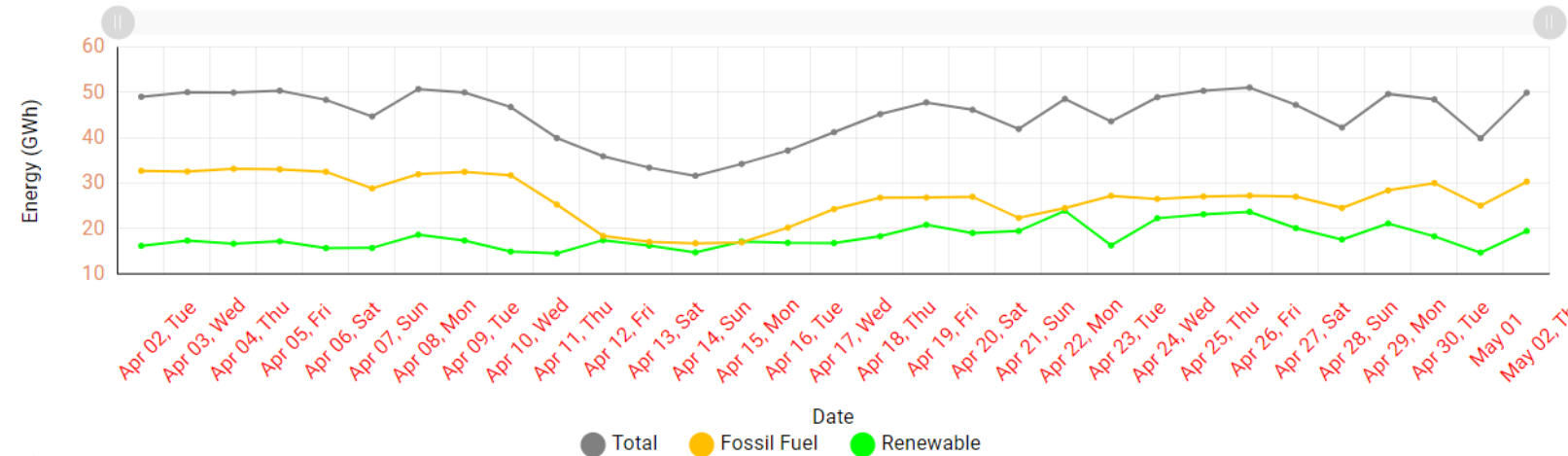


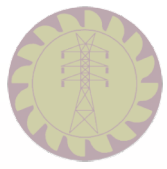


Net Generation Curve On Thursday, May 2, 2024



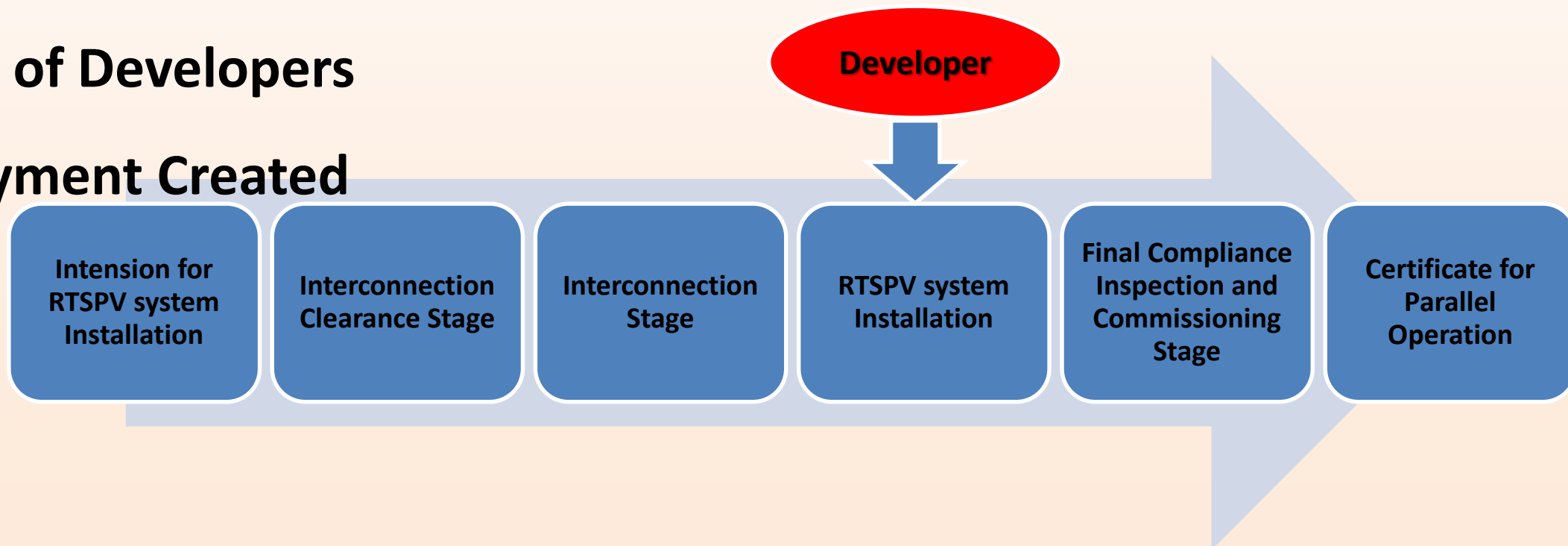
Electricity Generation by Source (GWh)

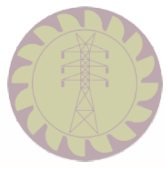




Social Inclusiveness and Opportunities

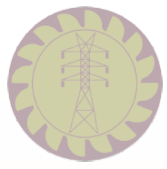
- ❖ Contribution to clean energy mix - LTGEP
- ❖ Low cost generation
- ❖ Scattered Generation
- ❖ Entries of Developers
- ❖ Employment Created





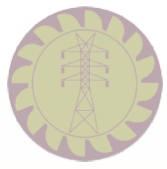
Employment Created

Direct employment						
Solar PV Service Provider Company (2023)	Total No of Staff - Engineers	Total no of Staff - Technicians	Total no of Non Technical Staff	Total	Male	Female
488	1,380	4,652	6,200	12,232	9,400	2,832
Indirect employment						
	500	1,500	8,500	10,500	6,825	3,675
Total Employment				22,732		



Problems

- **Intermittent and variable nature of Solar**
- **Overvoltage Issues**
- **Reverse power flow through the power transformer and its impacts related to harmonics, capacity, directional protection and AVR**
- **Utilization of Solar Energy is reduced as the country is having a Night Peak**
- **Lack of Infrastructure Development in the Transmission and Distribution Networks to absorb generated RE**
- **Low possibility of controlling at the National System Control Centre**



Future

- ✓ **Solar with battery storage facility**
- ✓ **Smart meters for solar PV connections with visibility at DCC, aggregate clusters visibility at NSCC**
- ✓ **Renewable Energy Desk with Resource Forecasting System at NSCC**
- ✓ **Possibilities of cross border electricity trade**
- ✓ **Peak Shifting**

Thank You