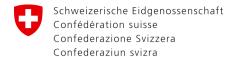


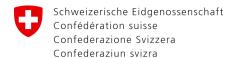
June 15, 2023, Asia Clean Energy Forum



### **Outline of presentation**

- Historical Background
- Evolution of a Company (SCECO)
- The Local Operation and Management (SCECO)
- Connection with the GRID
- Sustainability of SCECO

Story line – What made this small isolated 'off-grid' renewable energy system a self sustainble model in over 30 years and still running efficiently



## **History of SCECO**

- Clean electricity to Tobetan refugees and local people in Solukhumbu (base of EVEREST) in 1982, upgraded in 1991, expanded in 2013
- Saves trees/forests, environment and health
- Stand-alone off-grid micro-hydropower (670 KW) from local run-off river











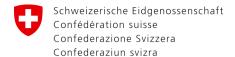






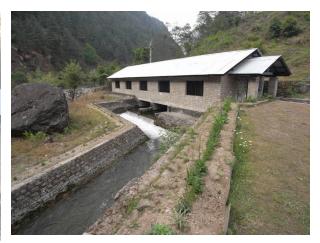


Intake, Sand trap, Canal and Fore bay



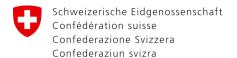








#### Power Houses and Electro-mechanical components inside





HT Indoor Switchgear Panel



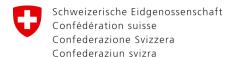


Power Transformer (380V/11000V



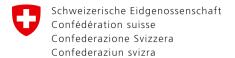
H-Pole/Transformer/11kV Line

Sub-Distribution
Box for
underground
service cable



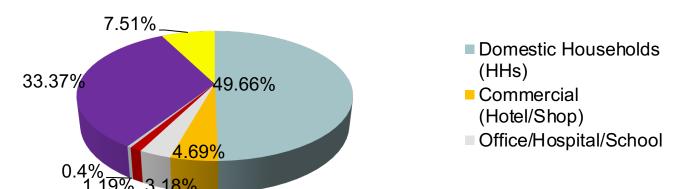
# **Evolution of Salleri-Chailsa Electricity Company (SCECO)**

- Established as a public company in 1991
- Shareholding of Nepal Electricity Authority (NEA) of the Government of Nepal – 33%, SDC of Swiss Government - 33% and Local consumers (34%)
- Transfer of Swiss Knowhow to local engineers, managers and operators
- Local ownership, profit-making but not distributing
- Profits accumulated as reserves for major maintenance and further expansion



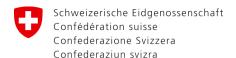
#### **Connection with the Grid**

- SCECO System was connected to the national grid on February 26,
   2021 through Net metering system on an agreed rate
- SCECO sells spill energy during off peak hour and night time to national grid
- SCECO buys electricity from the national grid to meet the consumer demand during peak hours



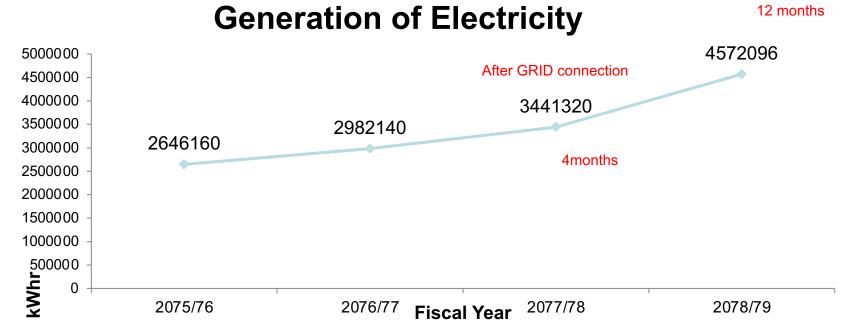
SCECO's consumers (over 2000)

2077/78



# Connection with the Grid (Cont'd)

2076/77

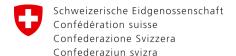


After grid connection, electricity generation increased by maximum of 32% due to operation of plants during off-peak hours at night time

**Fiscal Year** 

2075/76

2078/79



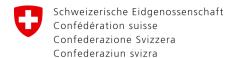
## **Local Operation and Management**

- Nine Board of Directors SDC- 3, NEA -3, and 3 from Local
- Board of Directors guides local management, Board meetings and Annual General Meeting
- Operation is done by 17 staff headed by General Manager –
   12 local staff (13% female)









#### **Sustainable Model**

- Strong local ownership
- Effective and capable local operation and management
- The company is running on profit and is financially sustainable.
- The retained earnings till date is over 1.0 Mio CHF



Thank you