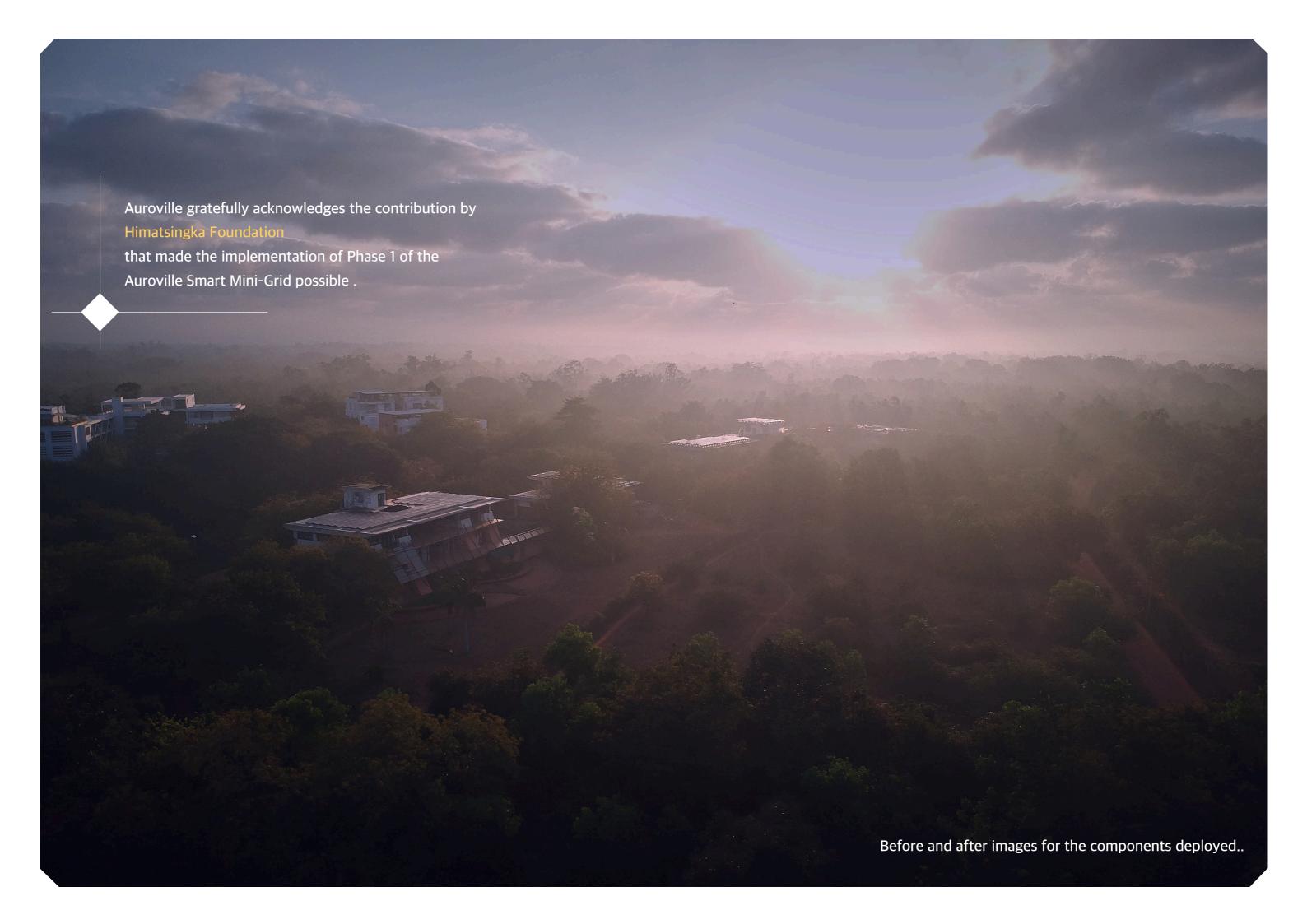


AUROVILLE S M A R T MINI-GRID



The Auroville Smart Mini Grid project seeks to deploy and integrate renewables, energy storage and demand response technologies and to demonstrate scalable and financially viable examples of resilient, smart and interconnected mini-grids to tackle issues of energy security, affordability, climate resilience and mitigation. Auroville offers an ideal environment for this pilot project because of its commitment to sustainable development and track record in sustainable energy solutions. It is foreseen that this approach can be adapted by campuses, urban centres and by electricity utilities at a wider scale and will serve as a case study to inform policy makers and urban decision makers.

The development of the Auroville Smart Mini Grid is planned in a phased manner. Phase 1 was completed in June 2020. The following technology systems were integrated:

- 122 kW rooftop solar on 6 public buildings in the administrative area of Auroville
- 50 kWh lithium ion battery storage at Mitra Youth Hostel
- 65 nos. smart meters and a meter data management system for monitoring
- 1400 meters of 22 kV HT underground network to complete the city centre main HT distribution ring system

The work was completed in a collaborative effort by the following Auroville units:

- Auroville Consulting
- Auroville Electrical Services
- Sunlit Future











