CASE STUDY

1700+ Schools, 500+ Hostels and Counting
Energy Needs of 2,65,589 Students Bridged

TECHNOLOGICAL SOLUTION

- Multiple projects bundled together under one CSR Program - Digital Education for Schools, Basic Energy needs for Hostels and portable lighting for school students.
- The Digital Education Program uses, Efficent projectors or Television and an offline bank of state syllabus based local language content which enhances teaching learning methodologies to improve learning effectiveness
- Constant maintenance and service support is provided by a local energy enterprise for ensuring the the longetivity of the technologies

FINANCIAL SOLUTION

- Menda Foundation's CSR Funds were co-leveraged to achieve twice the amount of impact which it would have by itself.
- For every individual school or hostel, 50% of the funds were provided by Menda Foundation whereas the remainder was leveraged through local NGOs, village panchayats and private contributions by the community.

SOCIAL SOLUTION

- Buy in from the school, hostel management was a key aspect of ensuring the longitivity of the solution.
- Champion teachers have been instrumental in making use of the technology at the highest potential
- Emphasis laid upon usage of vernacular content and training of teachers for more meaningful usability.

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A Bridge School in an urban slum in Bangalore with: a pre-fabricated, portable structure made of sustainable materials and learning tools built into the building; solar energy for lights, fans and a projector with Kannada learning content; and rain water harvesting.

PARTNERSHIPS TO ACHIEVE OUR SDGs

4 QUALITY EDUCATION + 7 AFFORDABLE AND CLEAN ENERGY

Delivering Decentralised Education

Learnings from SELCO Foundation

Sustainable Energy, Conducive Learning Environments and Appropriate Technologies have been at the heart of our mission.

www.selcofoundation.org

SELCO FOUNDATION

Learning 1

"We have a projector, but it's not in use as there is no electricity!"

ENERGY EFFICIENT TECHNOLOGIES POWERED BY SOLAR

Schools with erratic power supply or remote schools which are off the grid require **#GridIndependentEducation** Technologies that are relliabile and useful!

FROM THE FIELD

Digital Education Programme

- In Odisha, Karnataka. Tamil Nadu, Manipur, Meghalaya, Maharashtra, Bihar and Assam.
- Televisions powered by independent solar energy systems
- Offline content based on the state syllabus, in vernacular languages

MicroGrid at Kalkeri Music School

- Residential Music school for children from poor communities near Dharwad, Karnataka
- Powering efficient lights, pumps and water heaters, music instruments and also their kitchen appliances

MOBILE EDUCATION SERVICES

By using **#MobileEducation** to scale the service, as HR and capital costs can be incurred only once for a given cluster of schools

Learning 2

"How do you expect us to convince 15 qualified computer teachers to teach in a remote forest location?"

FROM THE FIELD

COMPUTER LITERACY ON WHEELS

- In Jharkhand, Karnataka & Odisha
- Computers powered by solar panels on the roof of the vehicle
- A single set of teachers and computer screens provide computer literacy as per thier local context.

Learning 3

"We work with migrant and poor communities to help mainstream their children into regular schools. But we don't have the right infrastructure."

Cost-effective and resource efficient, quality infrastructure can be pre-fabricated and provided to underserved communities with built in learning tools, natural lighting and ventilation.

These **#PortableSchools** also have the option to move with the community

PORTABLE SPACES FOR LEARNING WITH BUILT-IN AIDS AND ACCESS TO RELIABLE ENERGY.

FROM THE FIELD

BRIDGE SCHOOLS AND ANGANWADIS

- In Karnataka
- Solar Powered lights, fans and projectors
- Built in learning aids like abacus
- Sustainable materials, prefabricated unit and rain water harvesting

Learning 4

"Our school doesn't have Science, Computer Labs, and Libraries!"

VIRTUAL LAB KIOSKS & DIGITAL LIBRARIES

#LastMileEduTech powered by Solar Systems Single time technological infrastructure cost, digital lab simulators in tabs and kiosks with offline content in vernacular languages