



DISTRICT DEVALOPMENT DIALAGUE 2019

Atmosphere FIELD



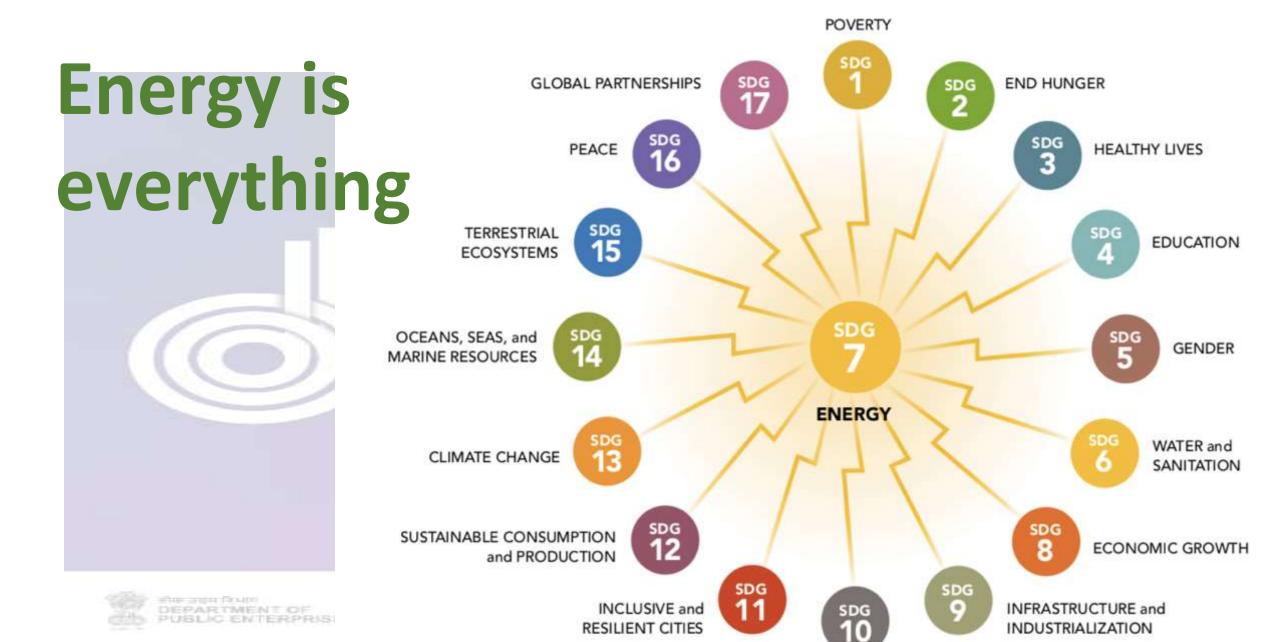












REDUCE INEQUALITY

Energy Contradiction

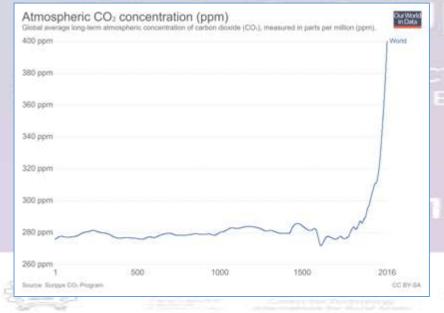
Lack of **Energy Access** to billions

□13% of world's population without access to electricity

40% of world's population without access to clean cooking

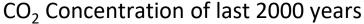
Ref: IEA, World energy outlook, 2017





□ Atmospheric CO₂
 concentration has increased from
 280 to 410 ppm

Ref: CO2.earth, 2018



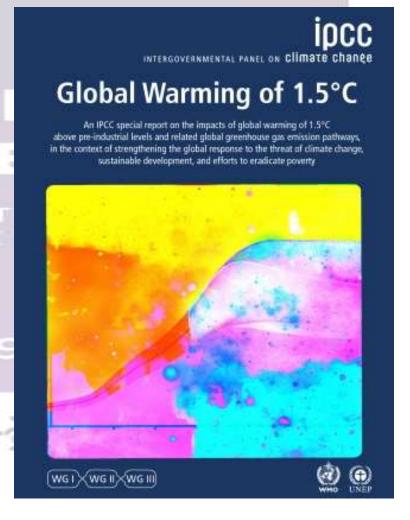
IPCC 2018 Report

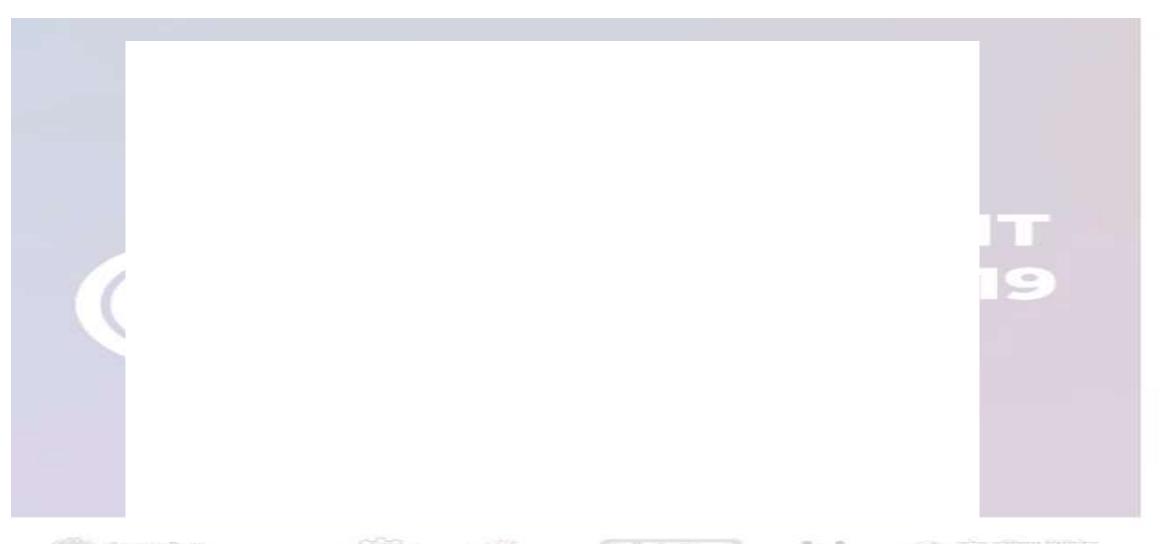
- ☐ The report finds that limiting global warming to 1.5°C would require "rapid and far-reaching" transitions in Energy
- □ CO₂ emission would need to fall by about 45% from 2010 levels by 2030, *reaching 'net carbon zero' around 2050*.











150th birth anniversary celebration, lets reflect

Gandhian Principles





Earth provides enough to satisfy every man's needs, but not every man's greed. ">>

Not mass production but production by the masses is required













A localized Energy Self-sufficiency





Energy Swaraj

ized Energy Self-Sufficiency— Blait possible? Self-Sufficiency— Blait possible possib

SCALABLE BEST PRACTICES
LEARNINGS FROM THE FIELD
IS technology available?







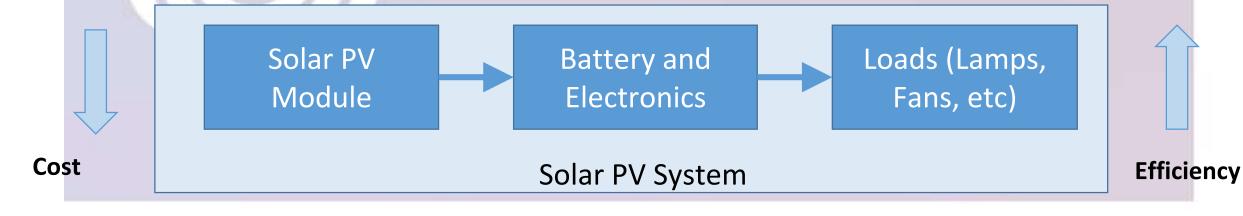






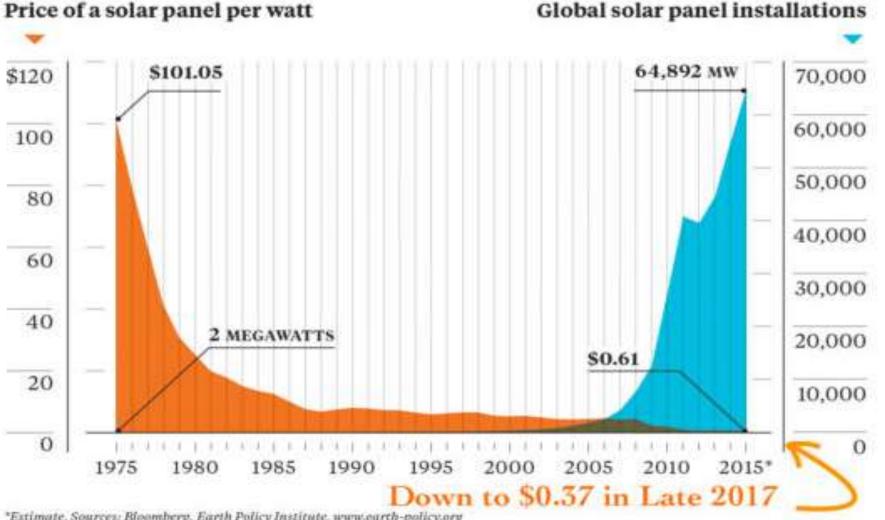
Efficient and Cost-effective Technology

- ☐ Each block of Solar PV system (module, circuit, battery and load) is becoming cheaper and efficient
- ☐ Enhancing commercial viability of localized solar PV Solutions



Technology and cost-effectiveness of solar PV electricity is competitive or better than grid electricity

Solar PV Module: Volumes and Pricing



The prices of the **Solar PV Module** have declined considerably



*Extimate. Sources: Bloomberg, Earth Policy Institute, www.earth-policy.org

Super-Efficient Appliances – DC Technology

DC-DC Adaptor



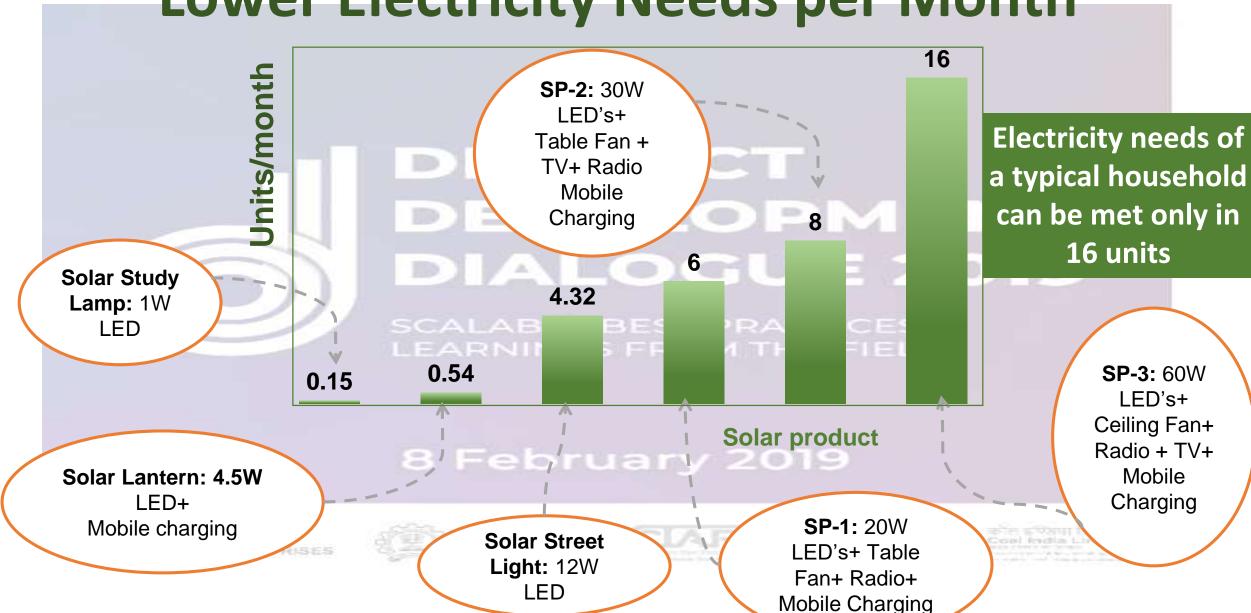


TV with satellite tuner – 15W, 24"

Super-Efficient
Devices are available,
consuming very low
energy

Table fan – 15W , 16"

Lower Electricity Needs per Month



Solar Urjalth ough Localization for Sustainabilit

Pioneering in Localized Energy Self-Sufficiency













Key Concepts of SoULS Initiative

- ☐ SoULS, IIT Bombay is working to create ecosystem for Localized Energy Self-Sufficiency
- ☐ Creation of local ecosystem involves local communities in every operations of solar electricity generation and consumption



Involving local people in

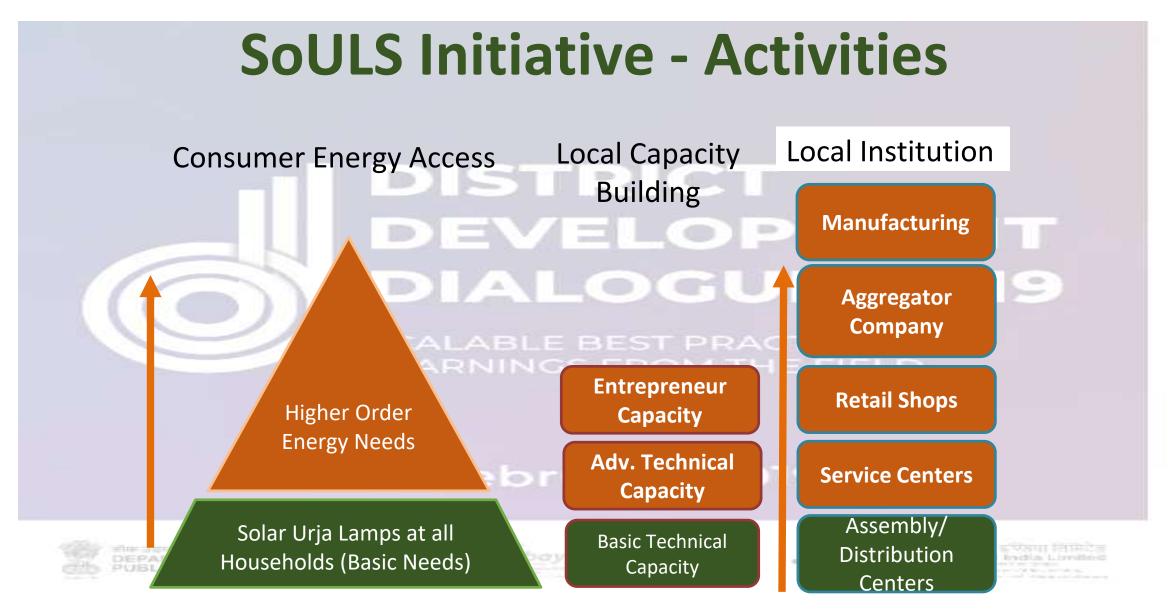
☐ Assembly

☐ Distribution and

☐ Repair activities

☐ Enterprising

■ Manufacturing Activities



These will require us to look beyond project to ensure sustainability

Solar Urja Lamp (SoUL) Program

4.2+ Million

Students ALREADY have received solar study lamp

290+ sub-districts

where program is currently running

7000+ Women

Are involved in assembly, distribution and repairs



















DISTIRICT DEVIELOPMENT Solar-Marts = 2019

LEAR (Smart) THE FIELD

Providing 24x7 Solar Off-grid Solutions



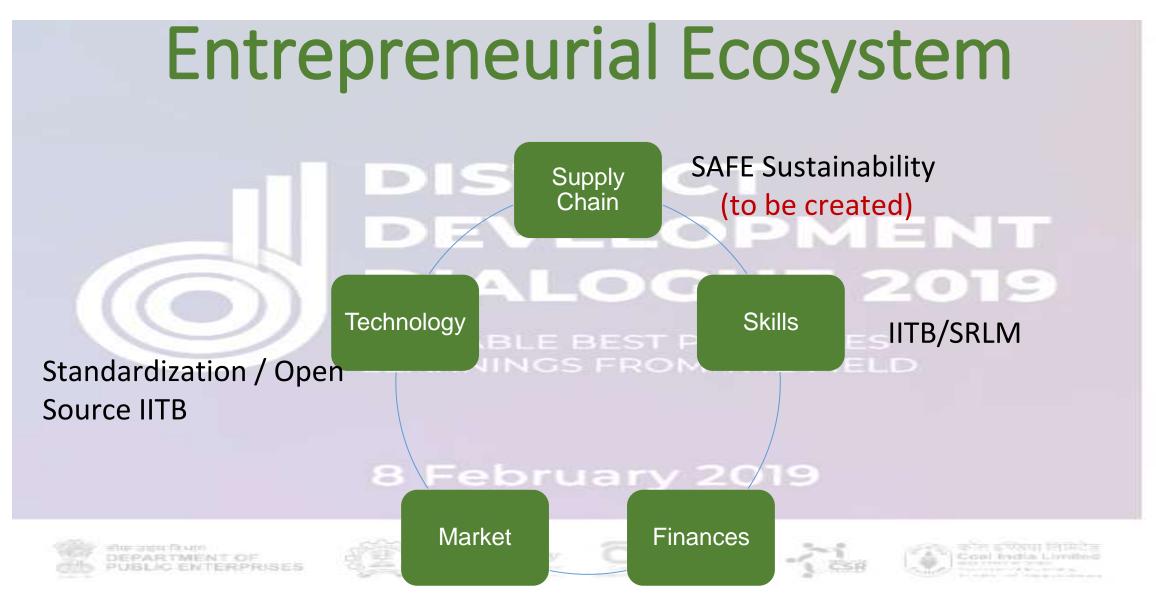












Promotion / Local

SELF / SHG network

S-mart: Current Progress



- 80+ S-Mart shops currently in operation
- ☐ Self funded by S-Mart **Solar didi's** approx. ₹30,000 initial investment

□700 shops in pipeline by end of Dec 2019.







Localized Manufacturing Localized Manufacturing LEARNINGS FROM THE FIELD













DURGA – A PV module manufacturing

- □ Durga Energy-Dungarpur Renewable Energy Technologies Pvt. Ltd-factory owned and operated by tribal women
- ☐Annual Production Capacity of 2 MW
 - SCALABLE BEST PRACTICES LEARNINGS FROM THE FIELD

DEVELOPMENT

□Solar panel manufacturing in sub watt range of (2.5 watt to 40 Watt)

4 more module manufacturing plants planning is at advanced stage





Solar PV Cooking

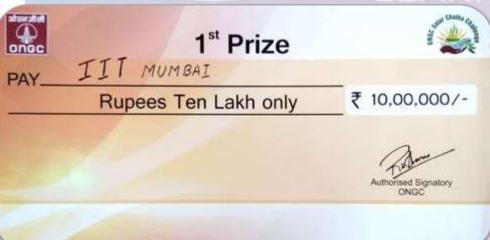
Received ONGC National Award





ONGC Solar Chulha Competition







Honourable Minister Shri Dharmendra Pradhan trying cooking on Solar Chulha



Promoting Localized Energy Self-Sufficiency SEAL for Sustainability ASTISES













GGSY Vision

The Gandhi Global Solar Yatra is designed to promote

localized energy self-sufficiency for sustainability

SCALABLE DEST PRACTICES
LEARNINGS FROM THE FIELD

creating awareness and sensitizing communities towards

viability of 24x7 decentralized solar solutions

Student Solar Ambassador Workshop

2nd Oct-18

- ☐ Young generation will be affected more seriously from climate change
- "Student Solar Ambassador" workshop is designed to sensitize young minds and give hands on training to make their first solar device, a solar study lamp
- ☐ On 2nd Oct. 2018 **Guinness World Record** Event was organized, more than 132,000 students got training





Every Solar Ambassador takes pledge of non-violence to environment

It is expected that

☐ about 3 to 5 Million students will make their lamp on 2nd Oct. 2019

DISTRICT

☐ More than **180 countries** will join the Movement













Support so far

8 February 2019

- ☐MNRE, MEA, MoC is supporting GGSY
- ☐ The 2nd Oct. event is official part of Gol 150th celebration of Gandhiji's birth anniversary

(www.gandhi.gov.in)

- □ISA is supporting GGSY
- ☐ Started Interaction with UN, World Bank for promotion

Funding required

☐ Carry on the activities of SoULS ISTRICT

☐ Promoting Energy Swaraj DIALOGUE 2019













Thank you!

Be a part of Global Movement www.ggsy.in

Time to bring Energy Swaraj for Sustainability and mitigating climate change