

Indo-German Energy Programme (IGEN)

Energy Efficiency in Industry & Data



Implemented by

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



Why Energy Efficiency



1820 - 1840

Industrial revolution

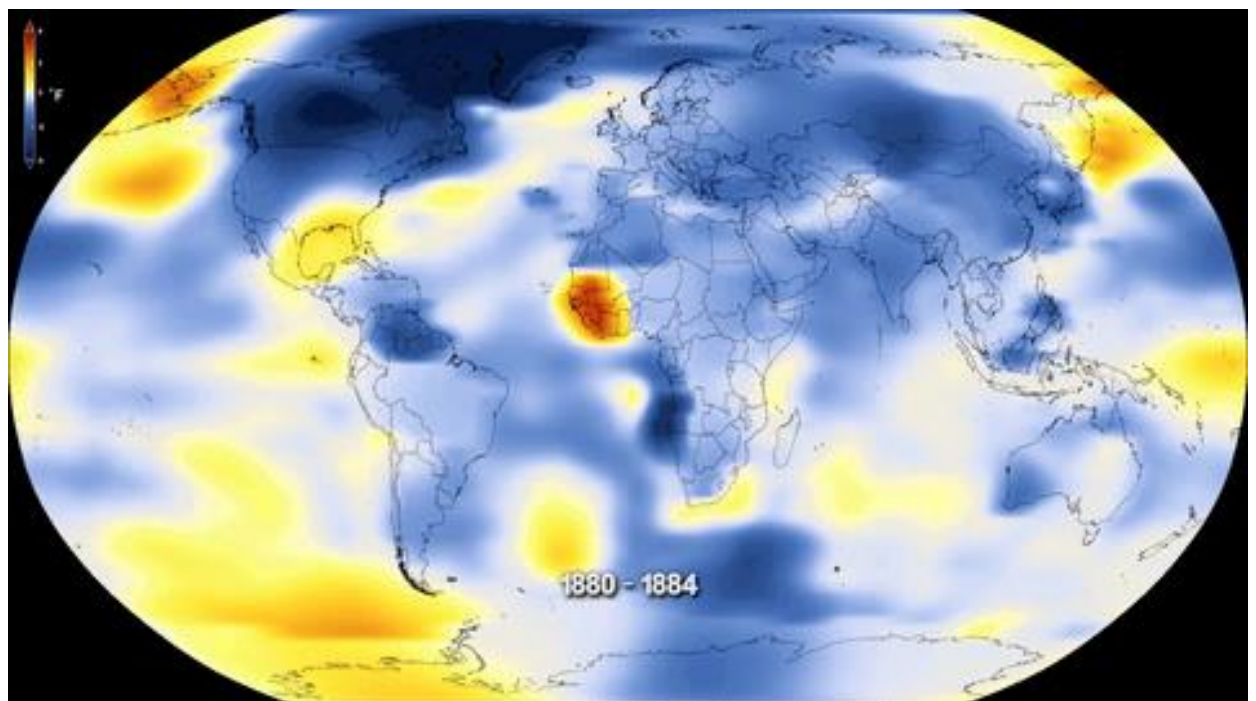
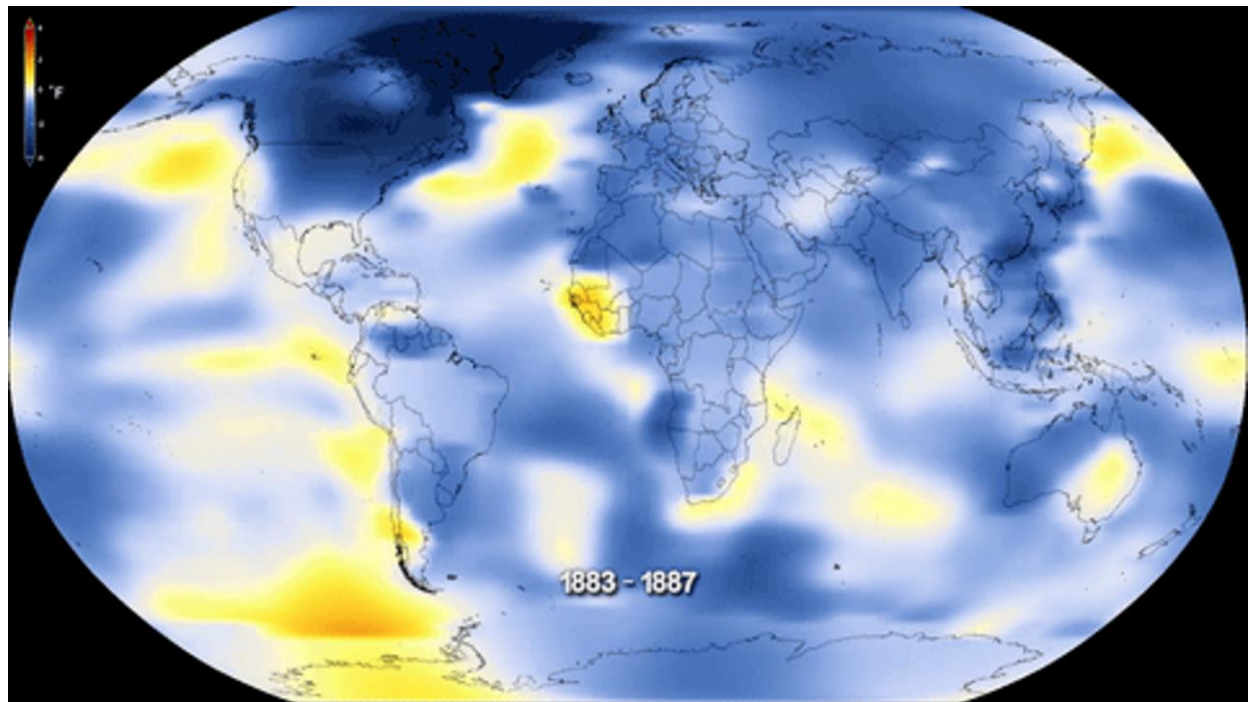
- Excessive use of fossil fuel

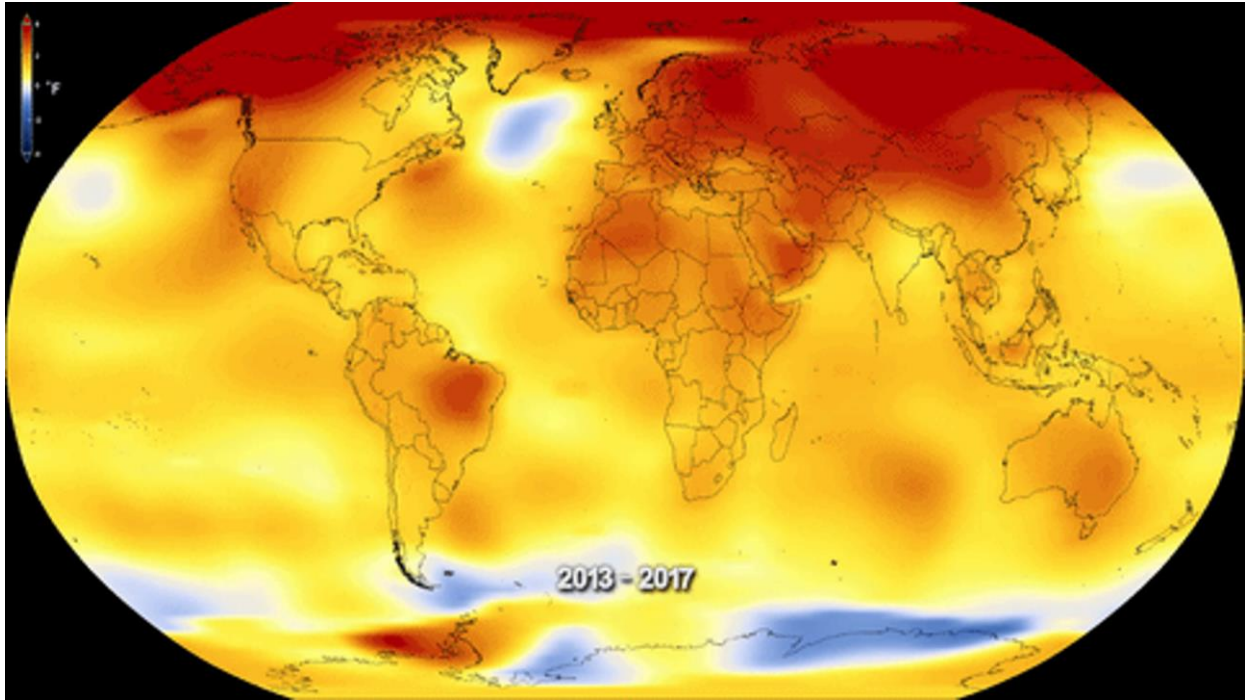
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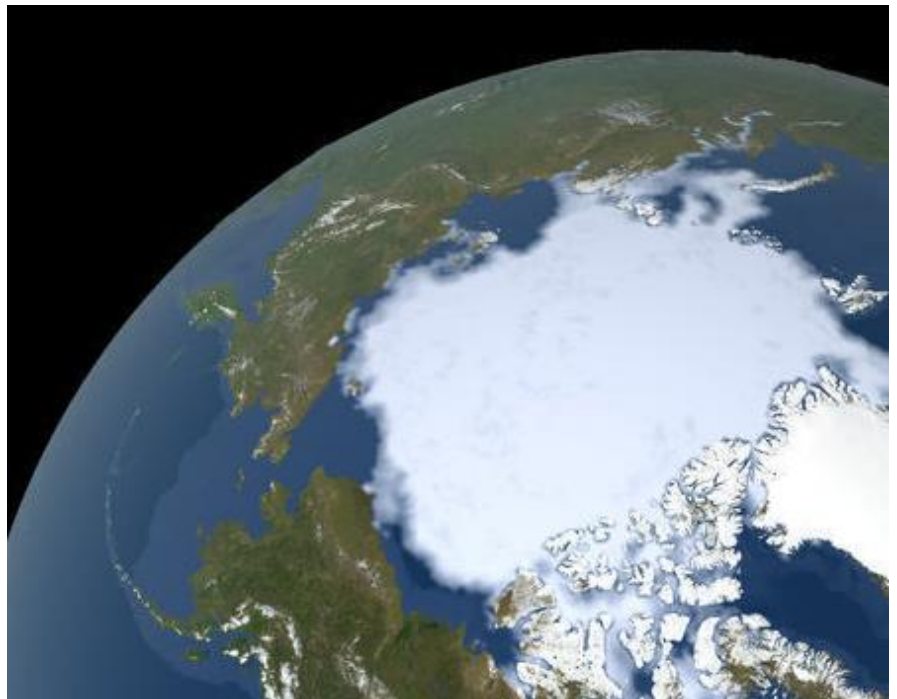
How it had
effected the Earth

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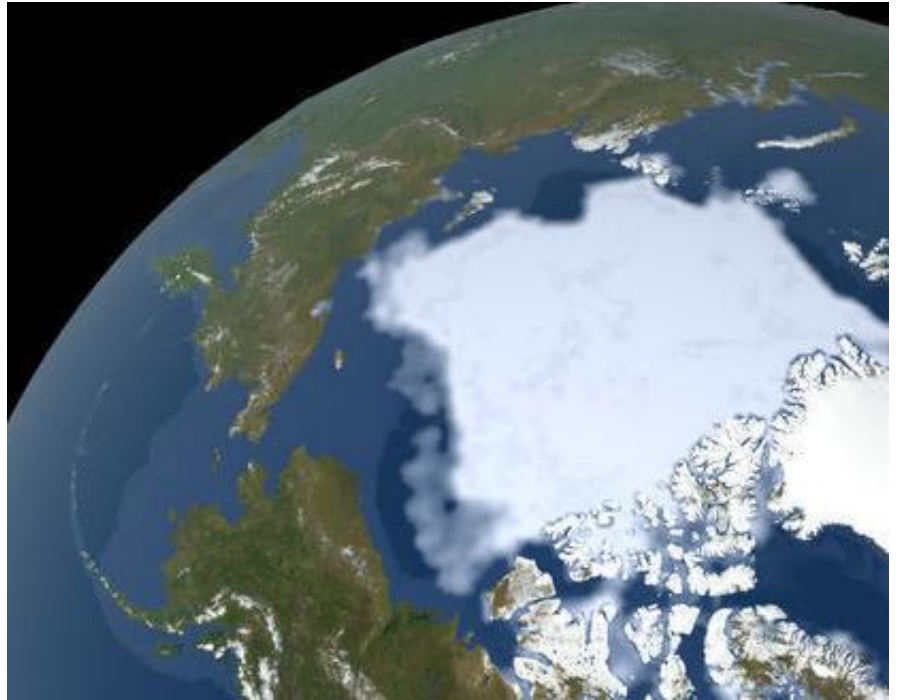


1980

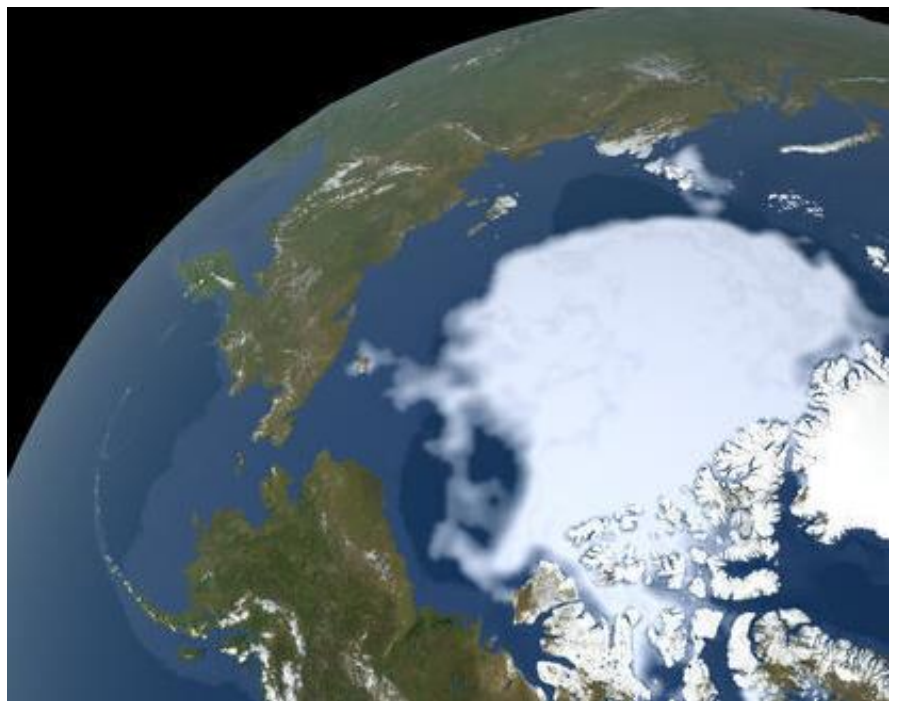




2000



2021





Wholly owned by the Government of the Federal Republic of Germany
Service providers on behalf of the whole of German Government



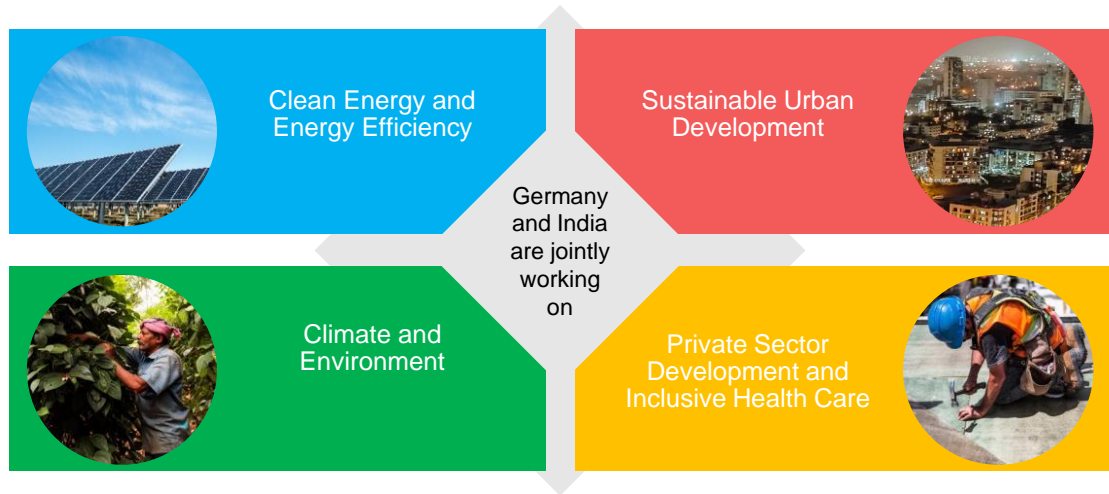
Over 50 years of experience and expertise in a range of thematic areas

Energy II Environment II Climate Change Natural Resource Management II Skills & Vocational Training
Education II Water II Health II Good Governance.....and many more!!

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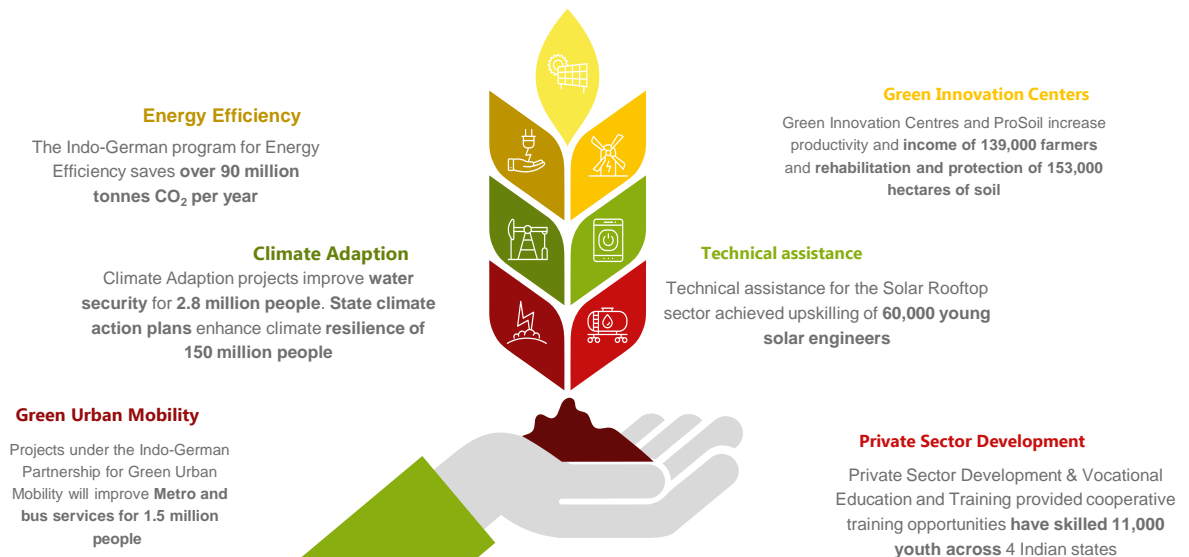


GIZ India – Thematic Areas



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GIZ in India – Impacts



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Energy Efficiency

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IGEN-EE Achievements



1st Indo-German energy efficiency project launched between GTZ and EMC, in 1995, followed by **EC Act 2001**, and establishment of **BEE**

Support towards formation of **EESL**



Implementation of PAT scheme including its deepening and widening - **92.3 Million tonnes Of CO2 reduction** • **21.95 Million Tonnes of Oil Equivalent** energy savings

- **Brick Industry Market Transformation:** Developed and Approved- market approach for encouraging energy efficiency in Brick manufacturing • Potential Impact- Energy Efficiency Enterprise (E3) Mark for manufacturers



Above 8.4 million school children participated in **national painting competition-2019** on energy conservation



Bachat Lamp Yojana (BLY) – transformation from incandescent bulbs to CFLs



Certification examination for **Energy Managers (EM)** and **Energy Auditors (EA)**

Energy Efficiency in Industry & Data

4/10/2023

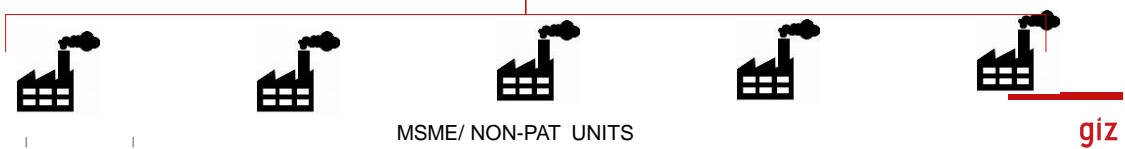


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Cooperation

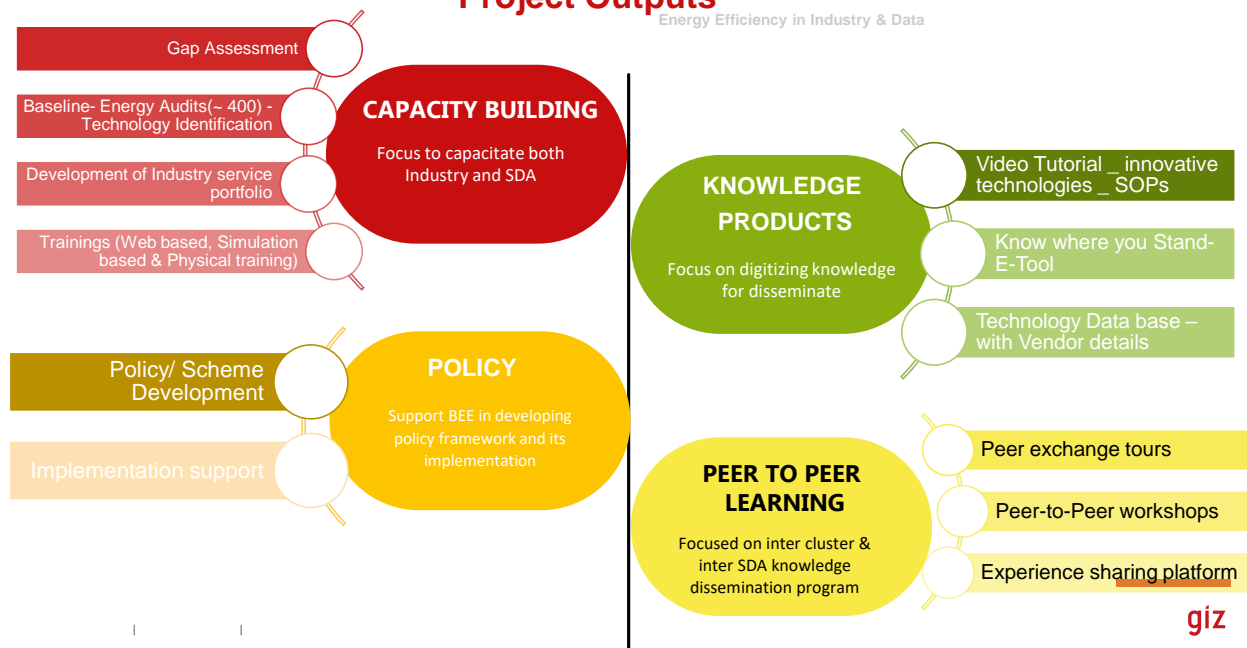


Associations

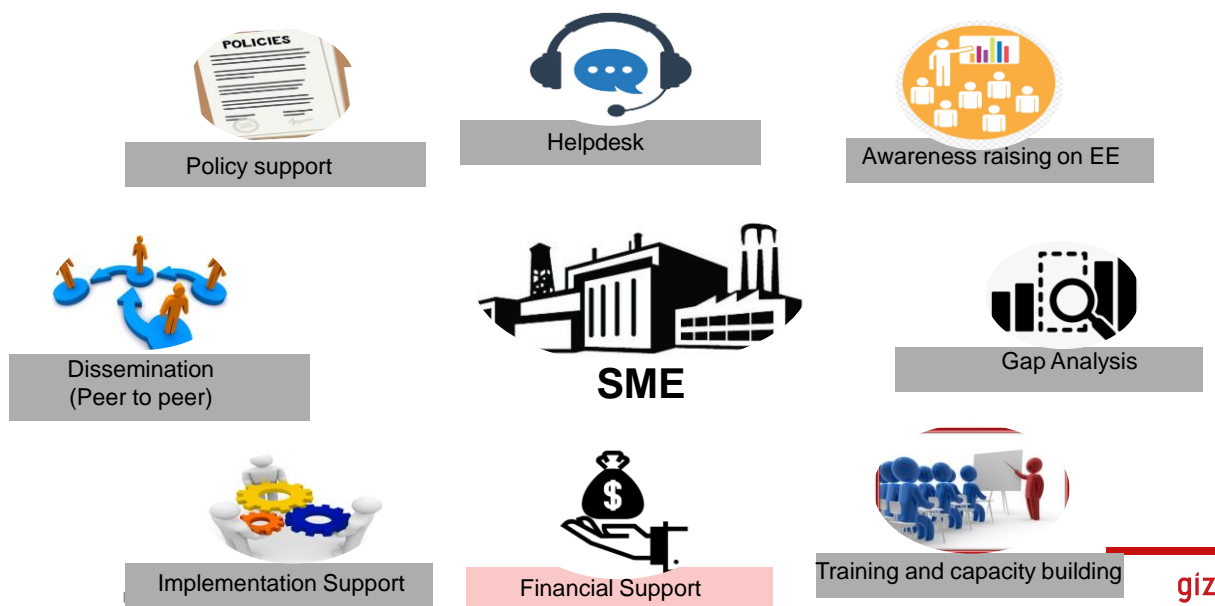


Project Outputs

Energy Efficiency in Industry & Data



Project's area of intervention



Access to Finance



- Support in preparation of technology feasibility report (through web portal)
- Pooling resources of different ministries/ departments
- Dissemination of various financing schemes of BEE to industries

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MSME Help Desk

A one stop solution for MSME



WhatsApp chatbot

Resolving technical queries, Users can raise queries via help desk portal on technical issues- chatbot will be backed by pool of experts



EE Benchmarking Tool

This **e-tool** will help you understand **where you stand**, and probable measures to improve your performance (SEC)- **Technology benchmarks**



Digitized Knowledge Products

AV documentaries on EE technology solutions, Case Studies, technology Hand-book/compendium, Newsletters, articles

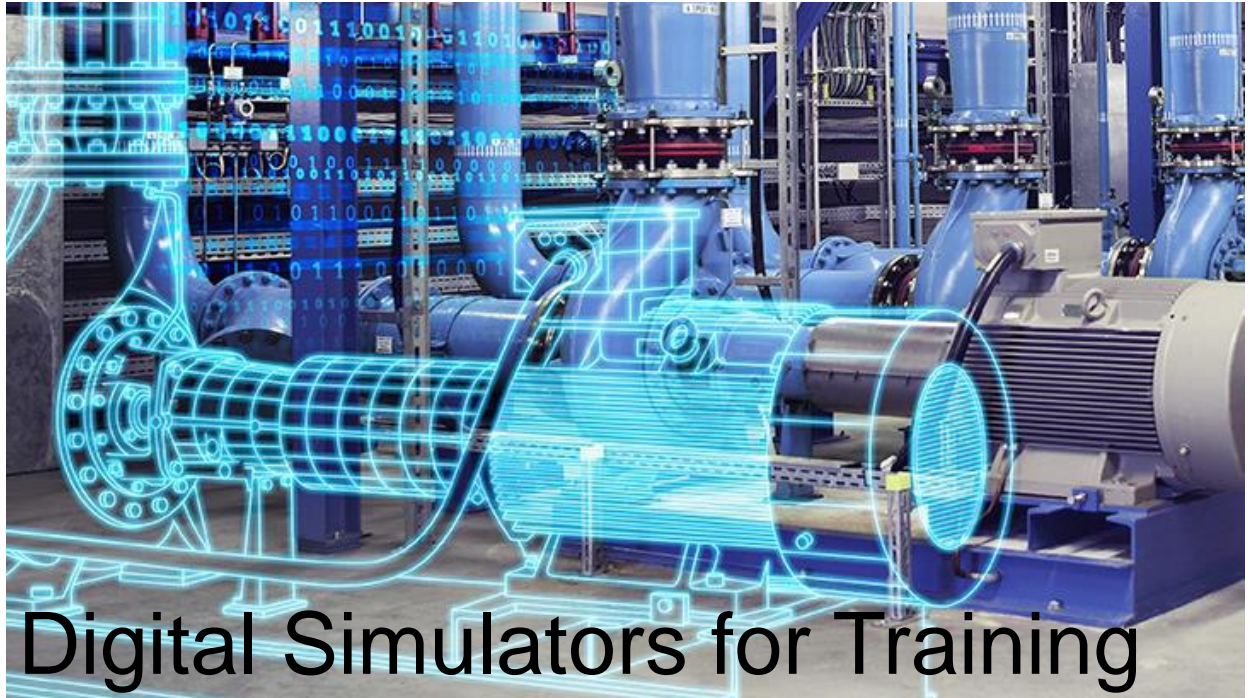


Technology Data Base

vendors and ESCOs providing/ supplying EE technology solutions

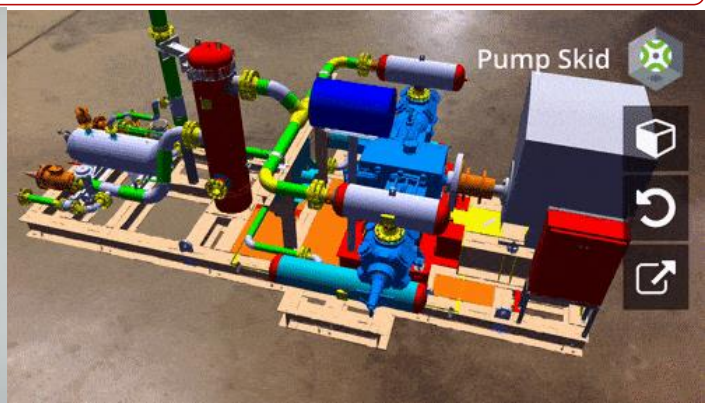
Helpdesk is getting build in existing sidhi.ee.beeindia.gov.in of Bureau of Energy Efficiency

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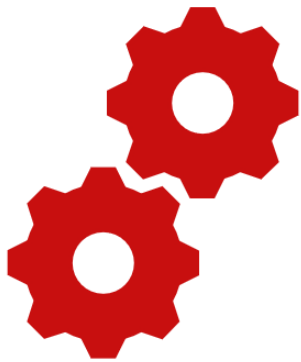


Digi-Twin

Exact digital replica of the major and commonly used energy intensive utilities for hands on training



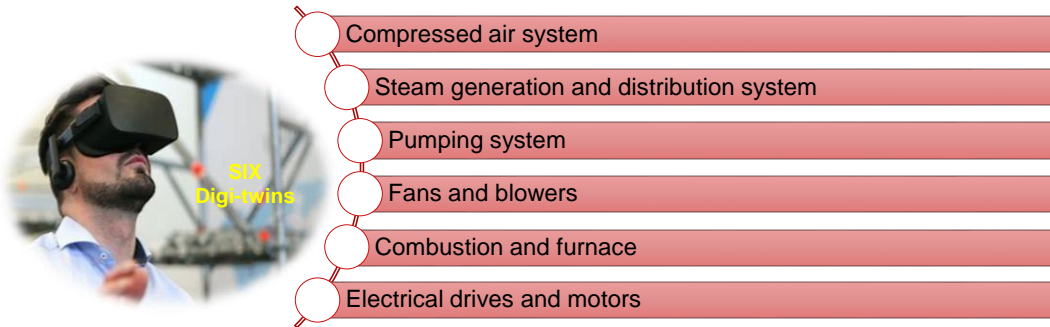
The trainee will be able to play and understand the effects of their actions without impacting the actual plant operation.



Operations Example of Digi Twin



Digi-Twin



Project Target

- ✓ 6 portable Digi-Twin models to be developed for hands on training
- ✓ Portable Training to increase cluster reach
- ✓ About 2000 industries' manpower are to be capacitated

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Thank you

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