

About Cool Up

Cool Up is a programme that promotes accelerated technological change towards sustainable cooling solutions in cooling demand reduction, and early implementation of the Kigali Amendment and Paris Agreement in Egypt, Jordan, Lebanon and Türkiye.

Cool Up was created to help counter the rise in cooling demands and the negative effects of climate change by providing catalytic change within the refrigeration and air conditioning sector. The programme is doing this by reducing cooling demand, supporting the phase-down of hydrofluorocarbons, replacing and safely disposing of inefficient cooling appliances and refrigerants, and improving cooling appliance operation, training, and awareness.

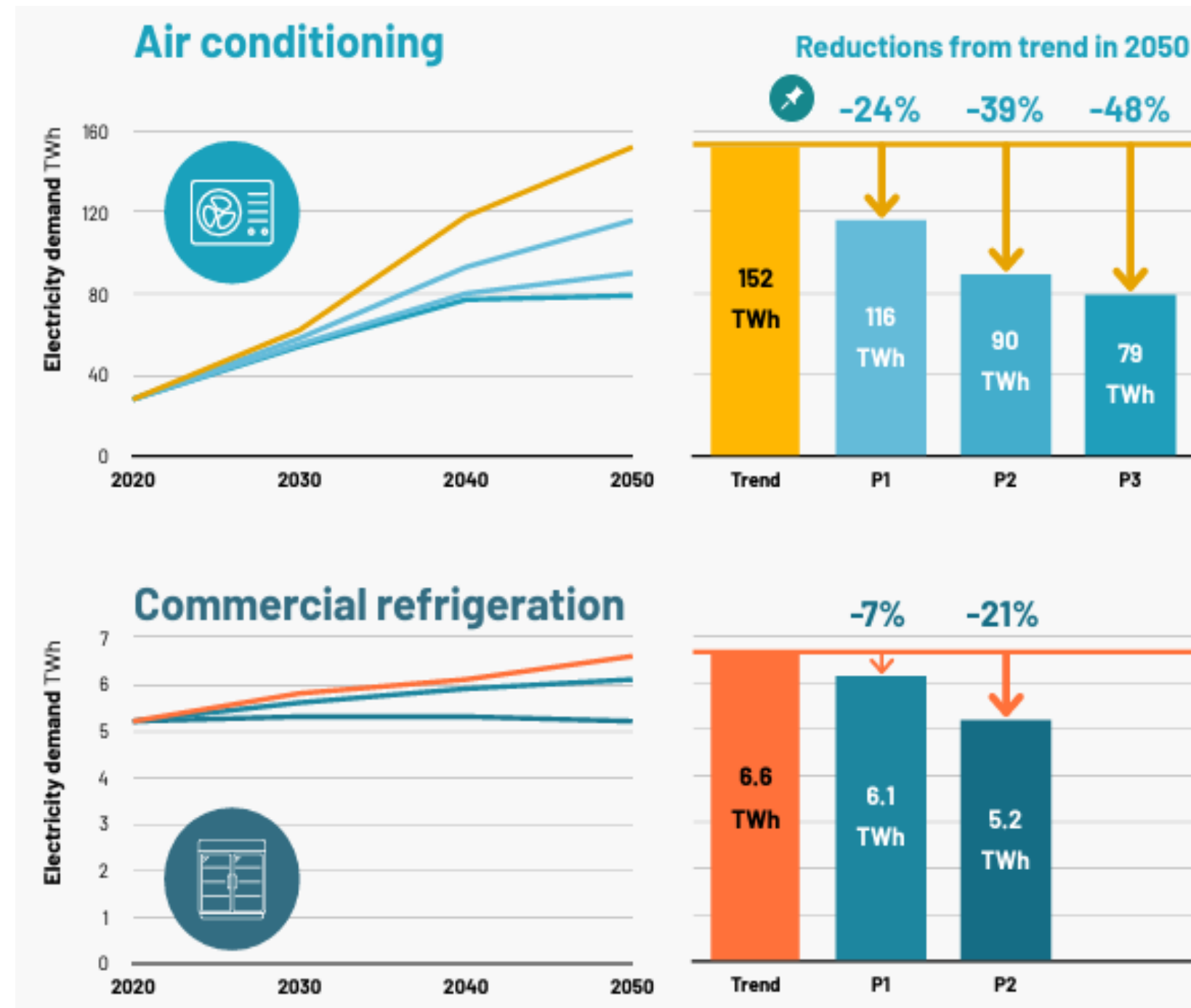
Key facts

- **Client:** German Federal Ministry for Environment, Nature Conservation, Nuclear Safety and Consumer Protection (BMUV) - IKI, International Climate Initiative
- **Duration:** 2021 – 2027
- **Consortium:** Guidehouse, IDG, RSS, LCEC, Öko-Recherche, UNDP, UNDP Türkiye, Istanbul Aydın University, Frankfurt School, ILK Dresden
- **Countries:** Egypt, Jordan, Lebanon and Türkiye
- **Contact:** Dr. Nesen Surmeli-Anac
nesen.surmeli.anac@guidehouse.com
- **Website:**
www.coolupprogramme.org



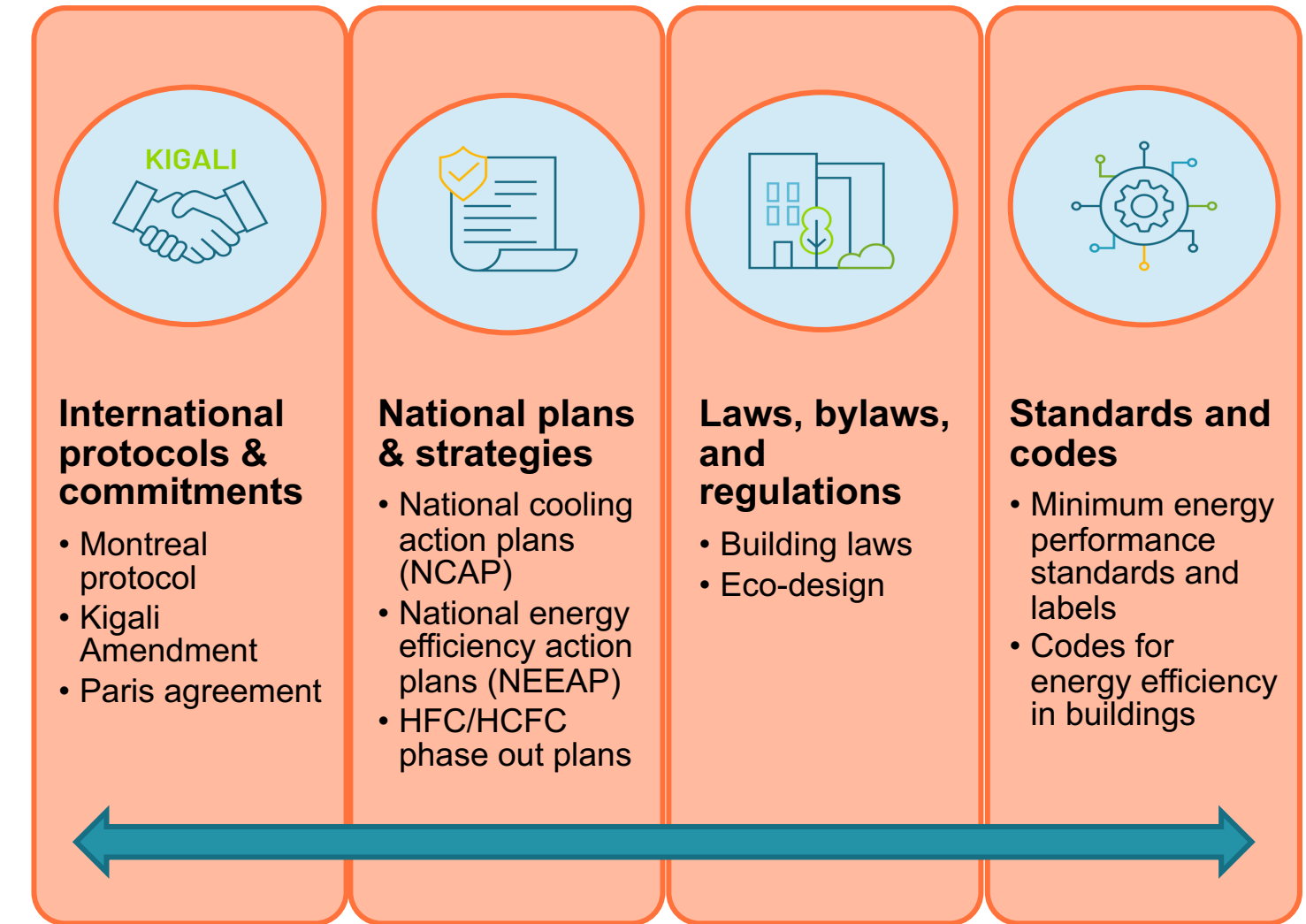
Challenge

Electricity demand prospects in Egypt



The prospects (P 1&2) model higher levels of energy efficiency in space cooling than the current trend. P3 also includes better energy performance of buildings.

Policy solutions



Technology & finance solutions



- Cool Up is implementing pilot projects demonstrating sustainable cooling solutions
- Cool Up developed a catalogue of sustainable cooling technologies
- Sustainable cooling solutions can significantly reduce direct and indirect emissions from cooling compared to current in-use technologies
- Spreading awareness and practical proof of concept is crucial for accelerating uptake
- Cool Up is exploring the economic feasibility of financing sustainable cooling technologies
- Sustainable cooling finance can look like existing energy efficiency financing options
- Attractive financing offerings can significantly accelerate the uptake of sustainable cooling technologies

About BUILD_ME

BUILD_ME aims to accelerate zero-emission building sector ambitions in across the Middle East and North Africa (MENA) region.

The building sector in the MENA region has great potential for reducing greenhouse gas emissions by means of energy-efficient and climate-friendly construction.

The project supports pilot projects and policy dialogues which foster the partner countries' ambitions to achieve climate-neutral building standards. BUILD_ME focuses on the introduction of an energy classification system for buildings, aimed at facilitating access to finance for buildings that meet sustainability criteria.

Key facts

- Client:** German Federal Ministry for Economic Affairs and Climate Action - IKI, International Climate Initiative
- Duration:** 2016 – 2025
- Consortium:** Guidehouse, IDG, HBRC, NERC/RSS, LCEC, Alcor
- Countries:** Egypt, Jordan, Lebanon and Tunisia
- Contact:** Riadh Bhar - Riadh.bhar@guidehouse.com
- Website:** www.buildings-mena.com



Policy impact

- Translated to BUILD_ME Energy Performance Certificate
 - policy steering instruments
 - help to create transparency in the market
 - support a transition from voluntary to mandatory building regulation
- Formulated recommendations for National Energy Efficiency Action Plans (NEEAPs) and Energy Efficiency Building Codes (EEBCs)
- Concluded first agreements with IFIs for incentive schemes
 - supporting technical recommendations
- Supporting 19 pilot projects

BUILD_ME's BEP tool

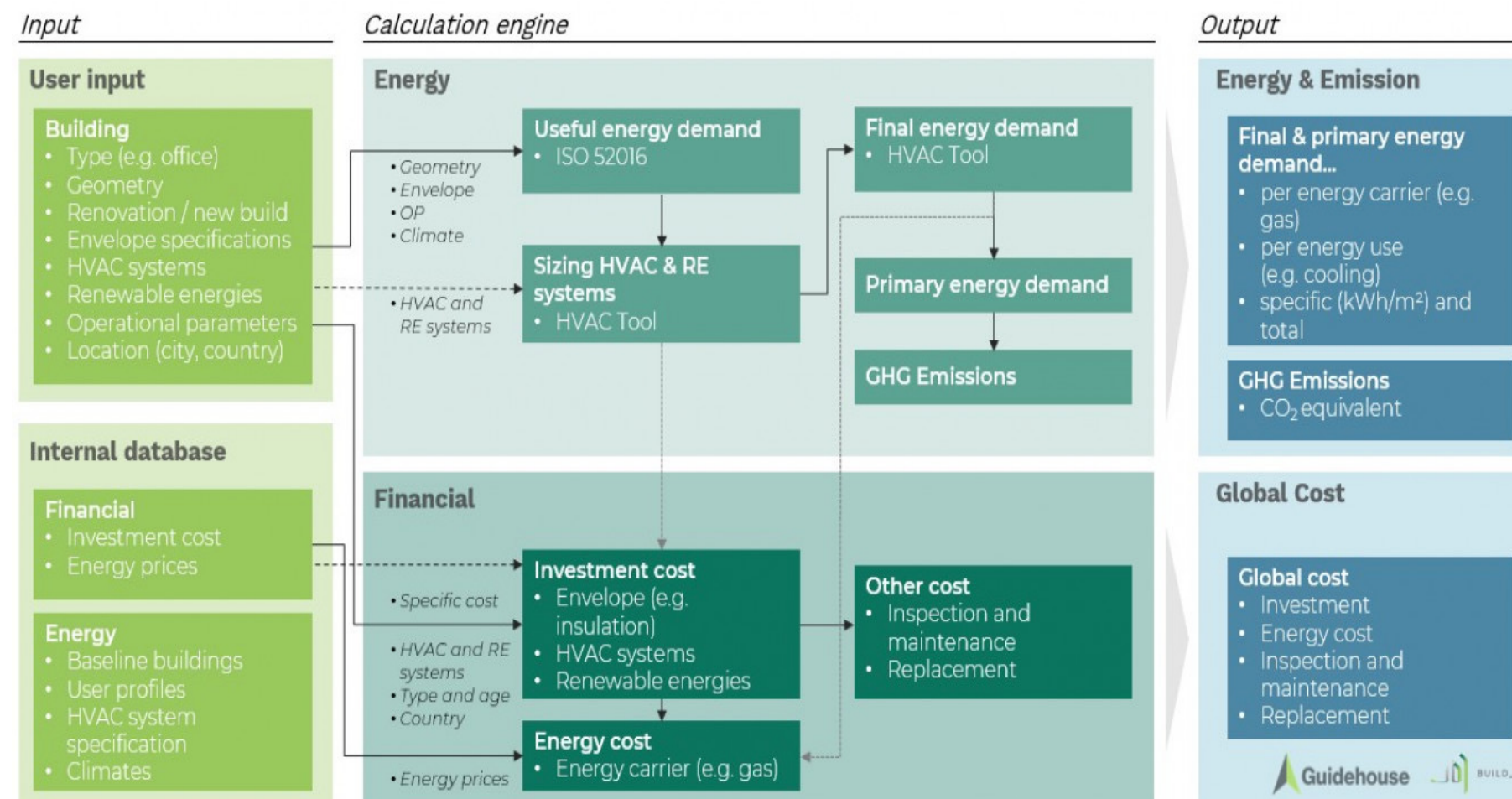
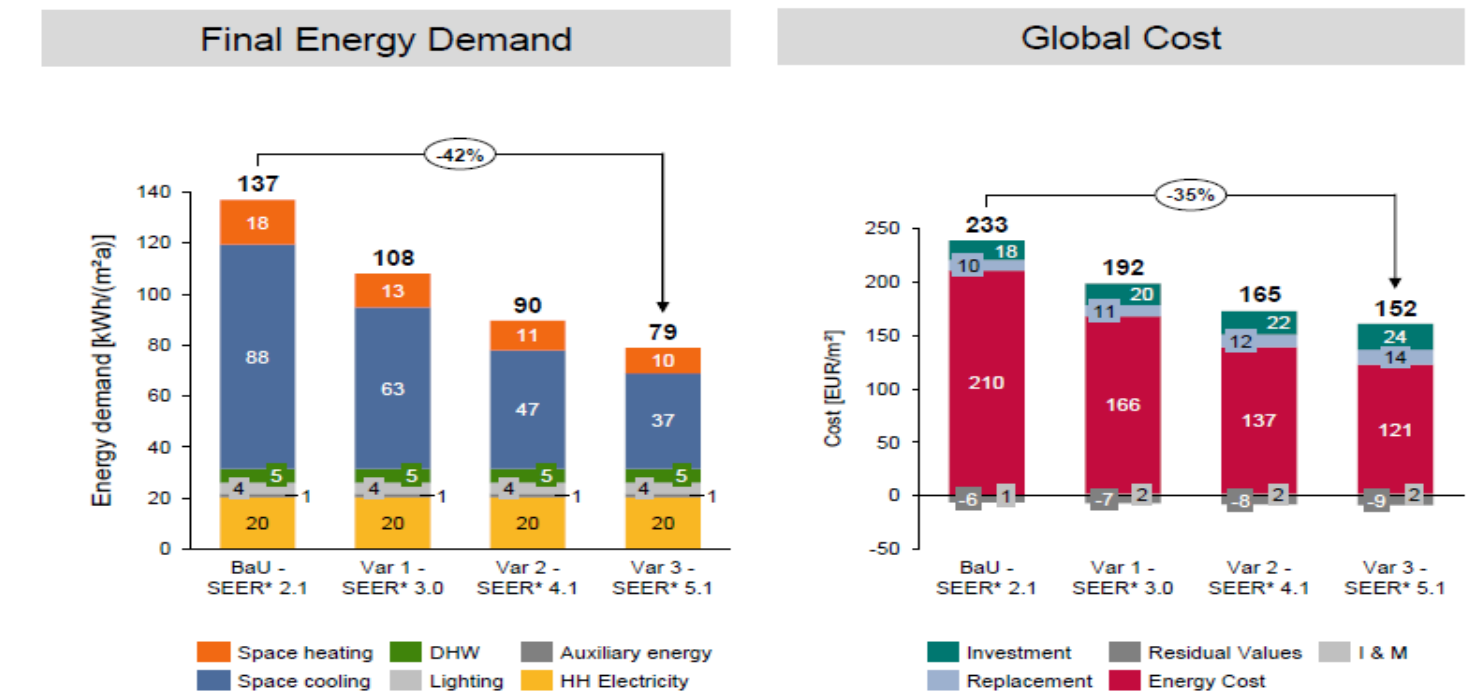


Illustration of BEP Tool architecture

BEP tool outputs

HVAC | Efficiencies - Analysis



Comparative overview | BAU, Current vs optimised

Conclusion

- The suggested measures of the selected package and the optimized lead to a significant decrease in energy demand and cost savings.

Savings compared to BaU

	Energy	Costs
Optimized	83%	56%

