Think Global, Act Local: Sustainable Development Goals and the Implementation of SDG7

Mark Lister
7 April 2017
Global vision

Local action

Smart everything

Nations Unies
Conférence sur les Changements Climatiques 2015
COP21/CMP11
Paris, France

191 signatories, 61 ratifications

SUSTAINABLE ENERGY FOR ALL
by 2030

ENSURING universal access TO MODERN ENERGY SERVICES.
DOUBLING THE GLOBAL RATE OF IMPROVEMENT IN energy efficiency.
DOUBLING THE SHARE OF renewable energy IN THE GLOBAL ENERGY MIX.

SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY

Ensure access to affordable, reliable, sustainable and modern energy for all

162 INDCs submitted, representing 189 countries
Energy Efficiency and the Sustainable Development Goals
Energy Efficiency and the Paris Agreement
Annual Global Total Greenhouse Gas Emissions (GtCO₂e)

- **Baseline**
- **Current policy trajectory**
- **Unconditional INDC case**
- **Conditional INDC case**

**Purple area** shows pathways limiting global temperature increase to below 1.5°C by 2100 with >50% chance.

**Blue area** shows pathways limiting global temperature increase to below 2°C by 2100 with >66% chance.

**1.5°C range**
- Remaining gap to stay within 2°C limit
- Median estimate of level consistent with 2°C: 42 GtCO₂e (range 31-44)

**2°C range**
- Remaining gap to stay within 1.5°C limit
- Median estimate of level consistent with 1.5°C: 39 GtCO₂e (range 38-40)

**30 2015 2020 2025 2030**
Bridging the Gap and maintaining economic growth

- From the Gap Report: there remains substantial untapped potential for emissions reductions through energy efficiency across the key energy using sectors of buildings (estimated 30 Gt to 2035), industry (22 Gt), and transport (12 Gt). So the gap can be bridged by EE alone, based on the availability of cost-effective potential.

- However, Governments cannot reach this potential alone. Realizing this opportunity requires ongoing innovation and new thinking in partnerships and delivery models to reconnect the private sector with delivery of global climate and development goals.

- Non-state actors are already increasingly recognized for the role they play as providers of services, technologies, and as advocates for strengthened action. Also from the Gap Report: estimates indicate that aggregated impact of existing private sector initiatives are in the order of a few GtCO2 e in 2030 beyond the current INDCs: a potentially a significant contribution to 'closing the gap.'
2016: Shift in investments towards low carbon sources

Source: IEA WEI 2016

EE brings half of energy savings
Where are the big energy efficiency gains going to come from?

Energy-related GHG emissions reduction (CO$_2$e) in Bridge scenario relative to INDC Scenario

**Regions:**
- India
- European Union
- United States
- Latin America
- Southeast Asia
- Africa
- Russia
- Middle East

- Heating and cooling
- Appliances and lighting
- Industrial motors
- Road transport

*World Energy Outlook Climate Special Report 2015*
The Copenhagen Centre on Energy Efficiency ("the Centre") was formed in 2013 under an agreement between UN Environment, the Technical University of Denmark ("DTU") and the Government of Denmark.

The Centre serves as the global Energy Efficiency Hub of Sustainable Energy for All ("SEforALL") and supports the objective of doubling the global rate of energy efficiency improvement by 2030.

The Centre helps to coordinate and facilitate the implementation of SEforALL work program- and related energy efficiency activities globally, by:

- **Assisting policy change in countries and cities** with knowledge, insights and technical support;
- **Accelerating energy efficiency through innovation** in delivery models, public-private partnership formation and project development; and
- **Raising the profile of energy efficiency** by communicating success and supporting outreach.
What does a 'hub' do?
Key activities of the Copenhagen Centre

**Building the Evidence Base for Action:** collation and dissemination of the Centre’s information and knowledge offerings, promotion of existing knowledge products and partner services, and generation of new information to underpin implementation.

**Brokering Partnerships and Connecting Stakeholders:** Engaging with delivery partners and building strategic relationships with other energy efficiency organisations. Activities include Secretariat functions of the Energy Efficiency Accelerator Platform, work on strengthening agreements between service partners and expert providers, and attracting new collaborators.

**Unlocking Finance:** Convening financiers and other partners in creating new investment models for energy efficiency, including for initiatives of the Centre and its partners.

**Benchmarking Progress and telling stories of success:** Serving as the focal point for the Centre’s external communications, including engaging with SEforALL’s campaigning and outreach activities, and aiming to better communicate the efforts and progress of the energy efficiency initiatives in which the Centre and other actors play a role.
Some examples of our recent work
**Matching the demand for EE support with our supply network**

- **Existing Best Practice Network of EE experts**
- **Project implementation partners (EE Accelerators)**
- **Finance and investment partners**
- **Leading/‘inspirational’ global cities**

**Copenhagen Centre on Energy Efficiency**

- **Functions**
  - Act as Global Secretariat/administrator of the Network
  - Assistance to help refine and formulate and develop requests to the Network
  - Some direct technical assistance work and analysis
  - Matching with leading cities from other countries

- **Cooperation agreement**
- **Coordination assistance**

**Local coordinating partner**

- **Functions**
  - Local coordinators to identify requests and needs that cannot be met internally
  - Direct delivery partner in some aspects of technical assistance

**Aspirational Cities**

- **Functions**
  - Respond to assistance requests coordinated through the Secretariat
  - Provide resources and expertise to work directly on capacity building activities

**National/subnational governments**

- **Functions**
  - Cooperation agreement
  - Coordination assistance

**Local service providers and companies**

- **Functions**
  - Work with local coordinator to formulate requests
  - Assist in technical assistance cooperation projects with global network as requested
Where do I sign? The process by which the Copenhagen Centre works with governments

EE implementation stage
- Commitment
- Scoping
- Stakeholder consultation
- Opportunities assessment
- Local coordinator nomination

Joint work/collaboration
- Statement of intent
- Local stakeholders
- International partners
- Business associations
- Finance models

Copenhagen Centre’s delivery offer
- Baseline analysis
  - Current status: barriers, solutions, existing activities
  - Best practices and high-impact opportunities for EE action
- Recommendations
- City/Country Brief
- Partners’ engagement
  - Matching scope of work with relevant partners; developing market analysis, partnership model and commitment agreements
- Developing project proposal(s) for funding and investment
- Ongoing facilitation and communications work

New project cycle
- Funding
- Implementation
- Assessment & Review
- Knowledge sharing
Our broader existing energy efficiency implementation partners

Countries
- Countries developing energy efficiency actions with the Accelerators, including through AA/IP processes
- Partners to many G20, IEA, UN Environment and UNFCCC processes

International Energy Efficiency Organizations
SEforALL's Network and the wider international expert energy efficiency community

Cities
- An increasingly important frame for decision making
- Connection with city initiatives and organizations e.g. C40, ICLEI, Covenant of Mayors

Companies and Private Sector
- Links with active companies, industry bodies, expert providers and financiers, including through the Global EE Accelerator Platform
Our key private sector network: SEforALL's Accelerator Platform

Global Energy Efficiency Accelerator Platform

- Drawing on existing best practice networks
- Building
- District Energy
- Lighting
- Vehicle Fuel
- Industry
- Appliances & Equipment
- City & Country Commitments to EE Action
- Assess Opportunities
- Develop Strategy and Plans
- Build the Enabling Environment
- Formulate Initiatives and Investments
- Achievement of municipal, national and global EE objectives

Secretariat
- Communications
- Co-ordination
- Tracking activity/results
- Cross-sectoral funding

Global Team
- Platform ownership
- High level oversight