

DOUBLE THE GLOBAL RATE OF IMPROVEMENT IN ENERGY EFFICIENCY

**Symposium on SDG 7 (Energy) in Preparation to the
2018 High-Level Political Forum on Sustainable Development**



Energy is the golden thread that connects economic growth, increased social equity, and environmental sustainability that allows the world to thrive.

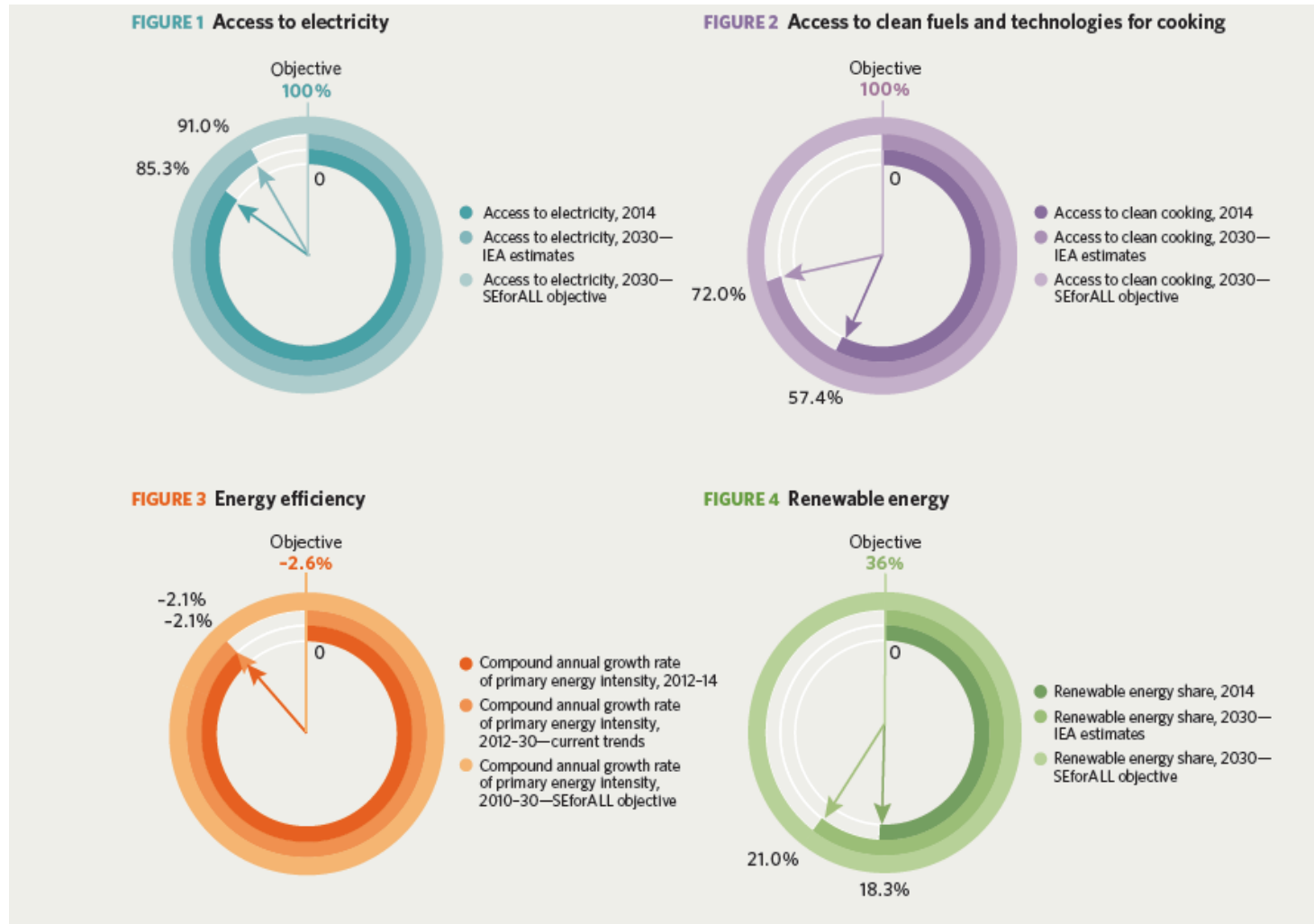


Ban Ki-Moon

Energy efficiency objective

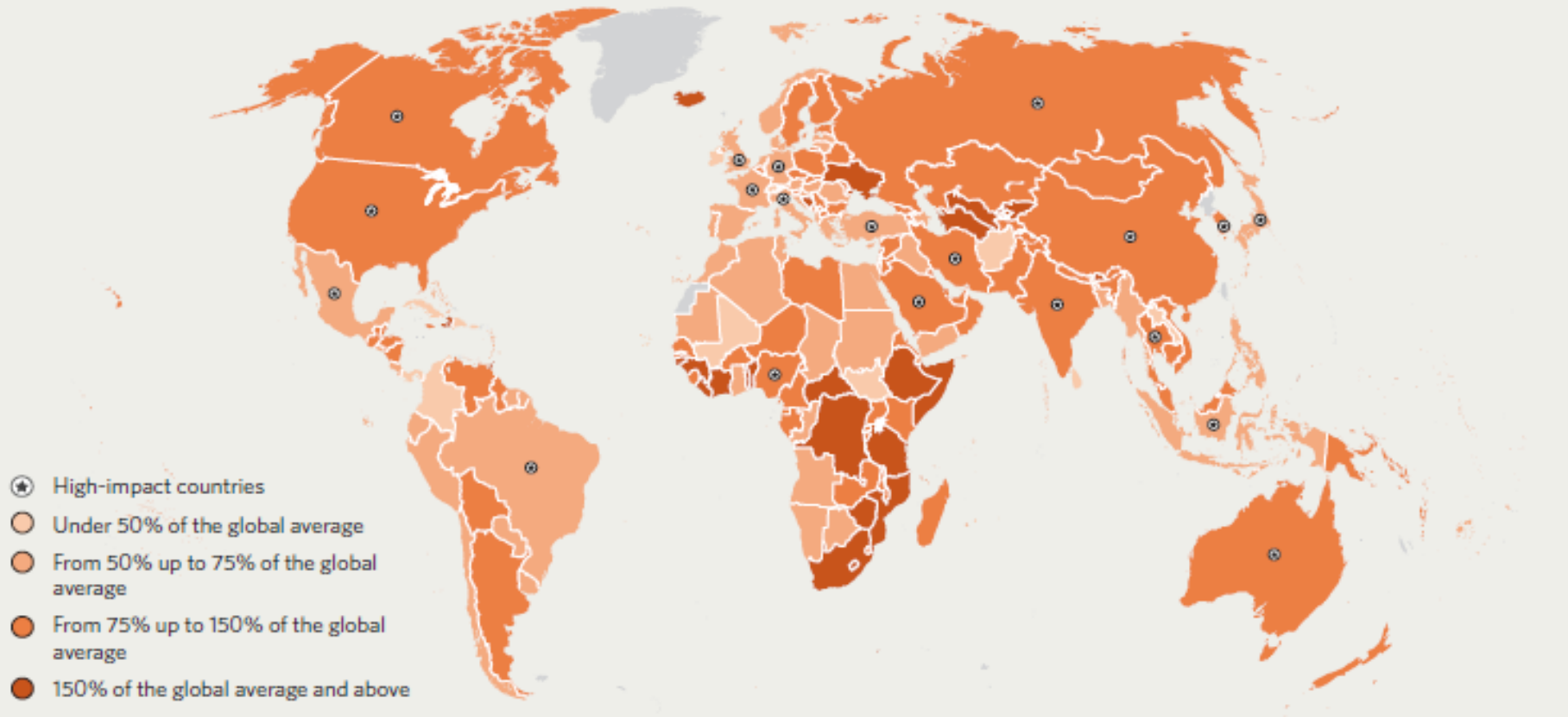
| ENERGY ACCESS | SEforALL Objective | Sustainable Development Goal 7 |
|---------------|--|--|
| Where to? | <p>Objective</p> <p>By 2030, double the global rate of improvement in energy efficiency</p> | <p>Target 7.3</p> <p>By 2030, double the global rate of improvement in energy efficiency</p> |
| | <p>Indicator</p> <p>Compound annual growth rate of energy intensity in terms of total primary energy supply and gross domestic product (GDP) at purchasing power parity (PPP)</p> | <p>Indicator</p> <p>Energy intensity in terms of total primary energy supply and GDP at PPP</p> |
| Adoption Year | 2011 | 2015 |
| Target Year | 2030 | 2030 |

Energy efficiency as part of the sustainable energy package: where do we stand?



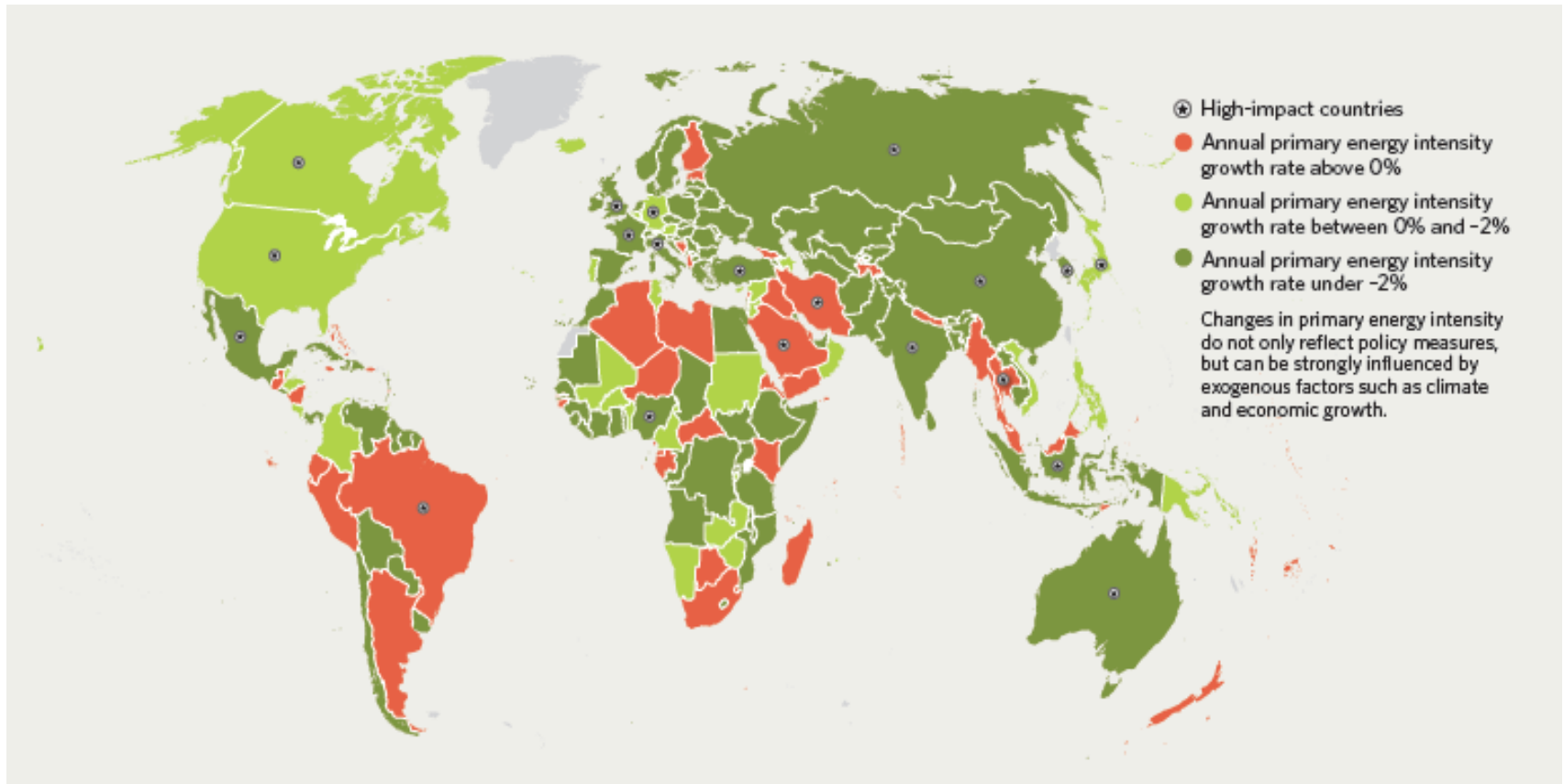
(Global Tracking Framework report 2017)

Global overview: Primary energy intensity (2014)



(Global Tracking Framework report 2017)

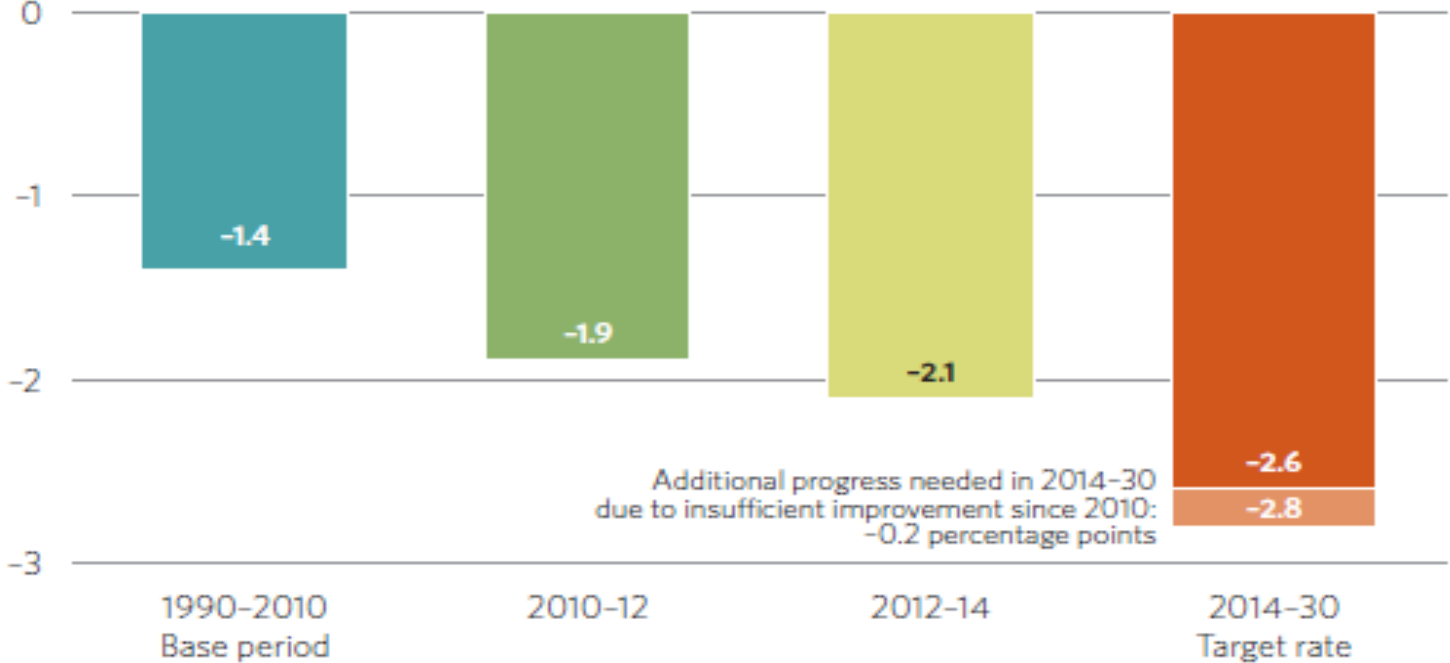
Speed of progress on reducing energy intensity (2012-2014)



(Global Tracking Framework report 2017)

Global energy intensity is not declining fast enough to meet SDG 7.3

Compound annual growth rate of primary energy intensity by period, and target rate for 2014-30 (%)



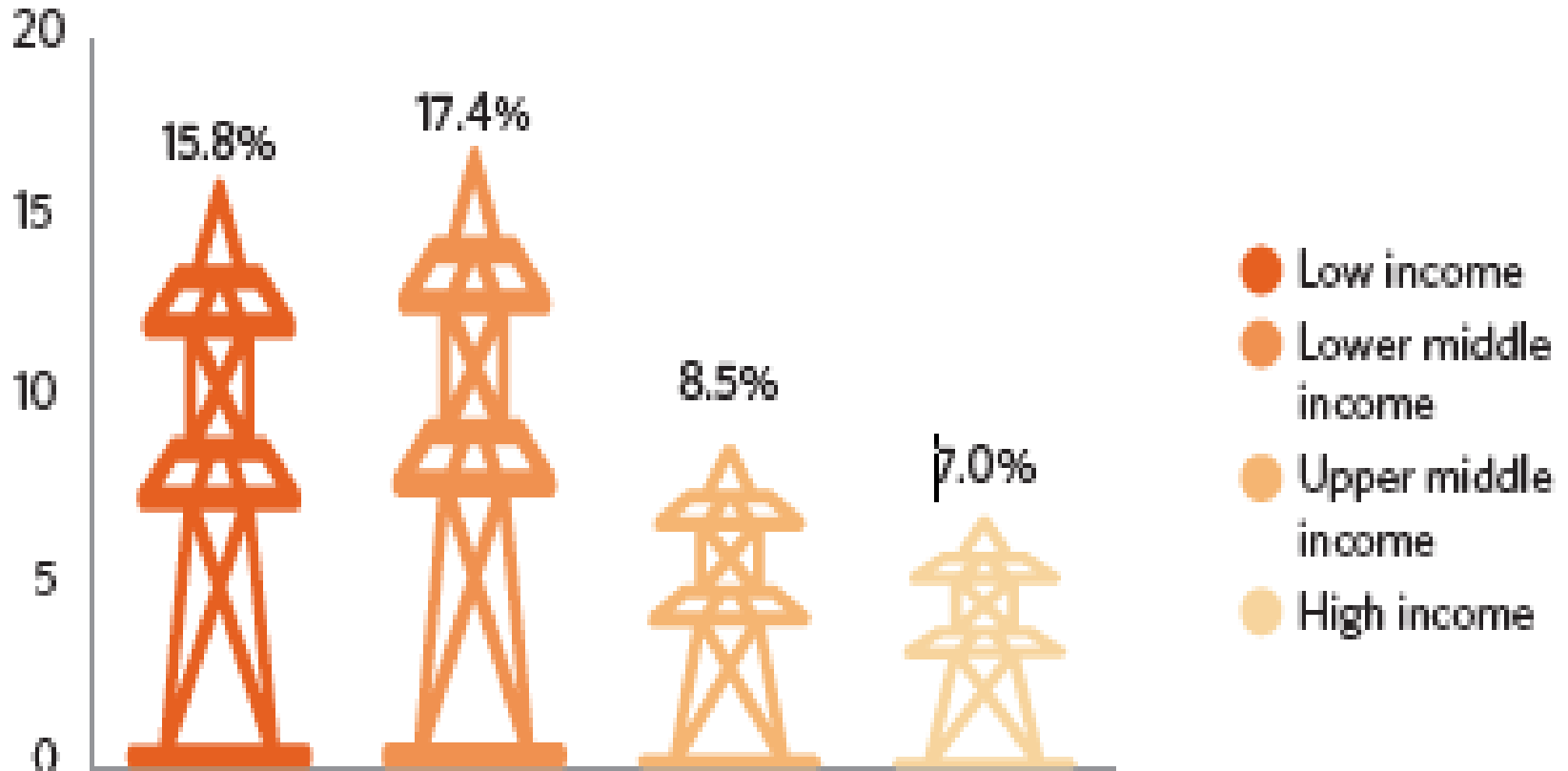
Source: World Bank analysis based on IEA, UN, and WDI databases, and IEA *World Energy Outlook* gross domestic product projections.

(Global Tracking Framework report 2017)



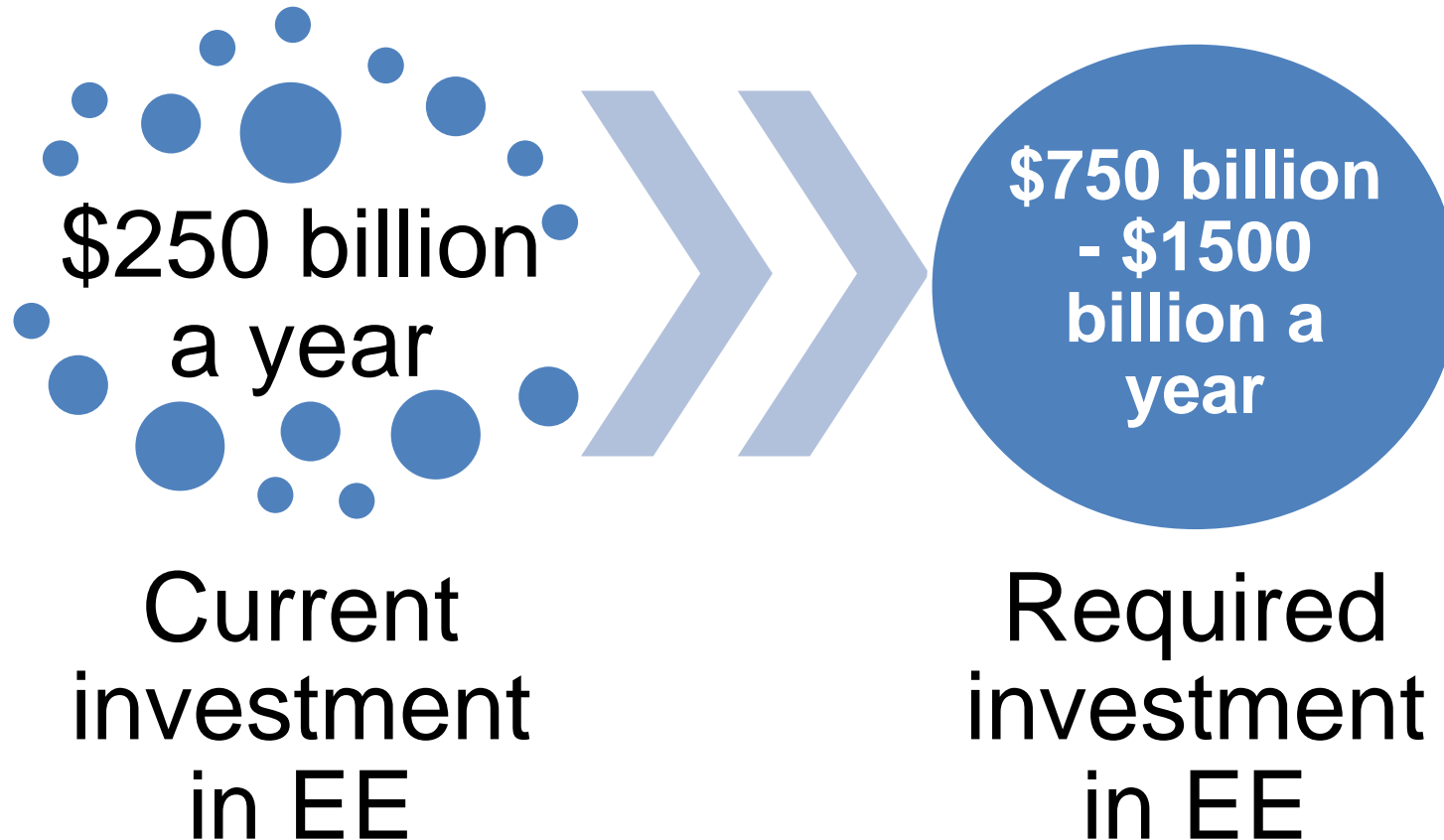
Where has progress dragged?

Transmission and distribution losses for electricity (%)

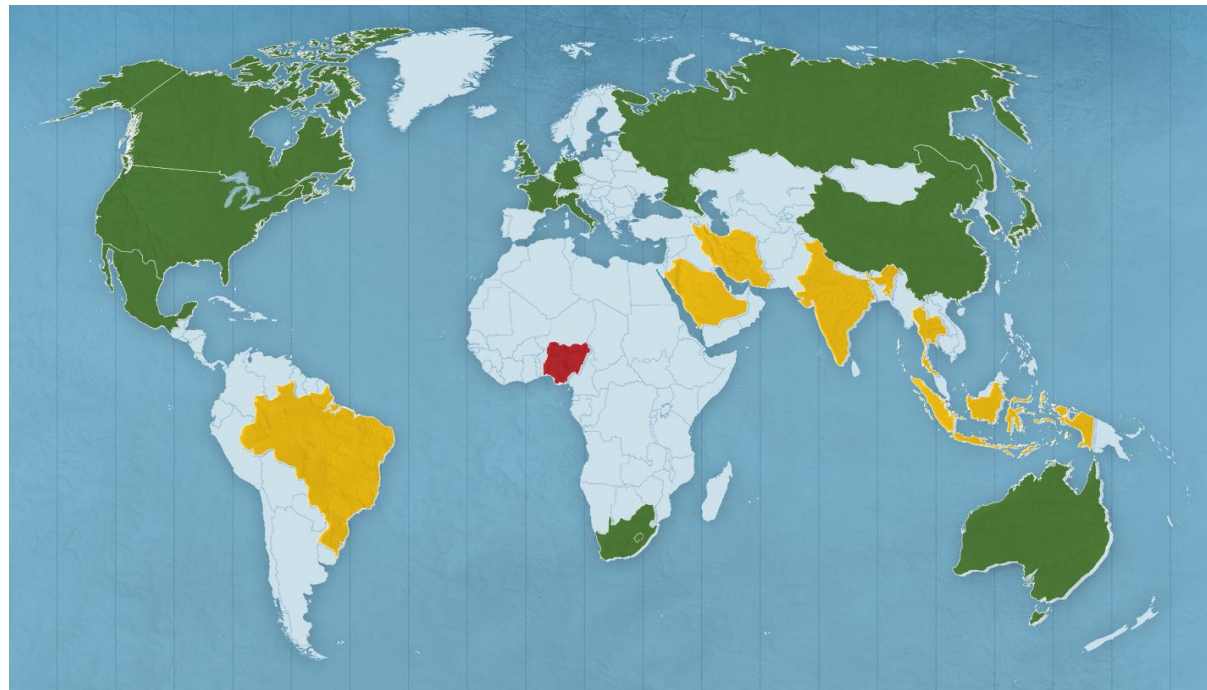


(Global Tracking Framework report 2017)

EE investment needed to attain the SDG 7 objective



Almost All High Impact Countries Are in the Green Zone for Clean Energy



- Doing well
- Some progress needed
- Significant progress needed

Energy Efficiency

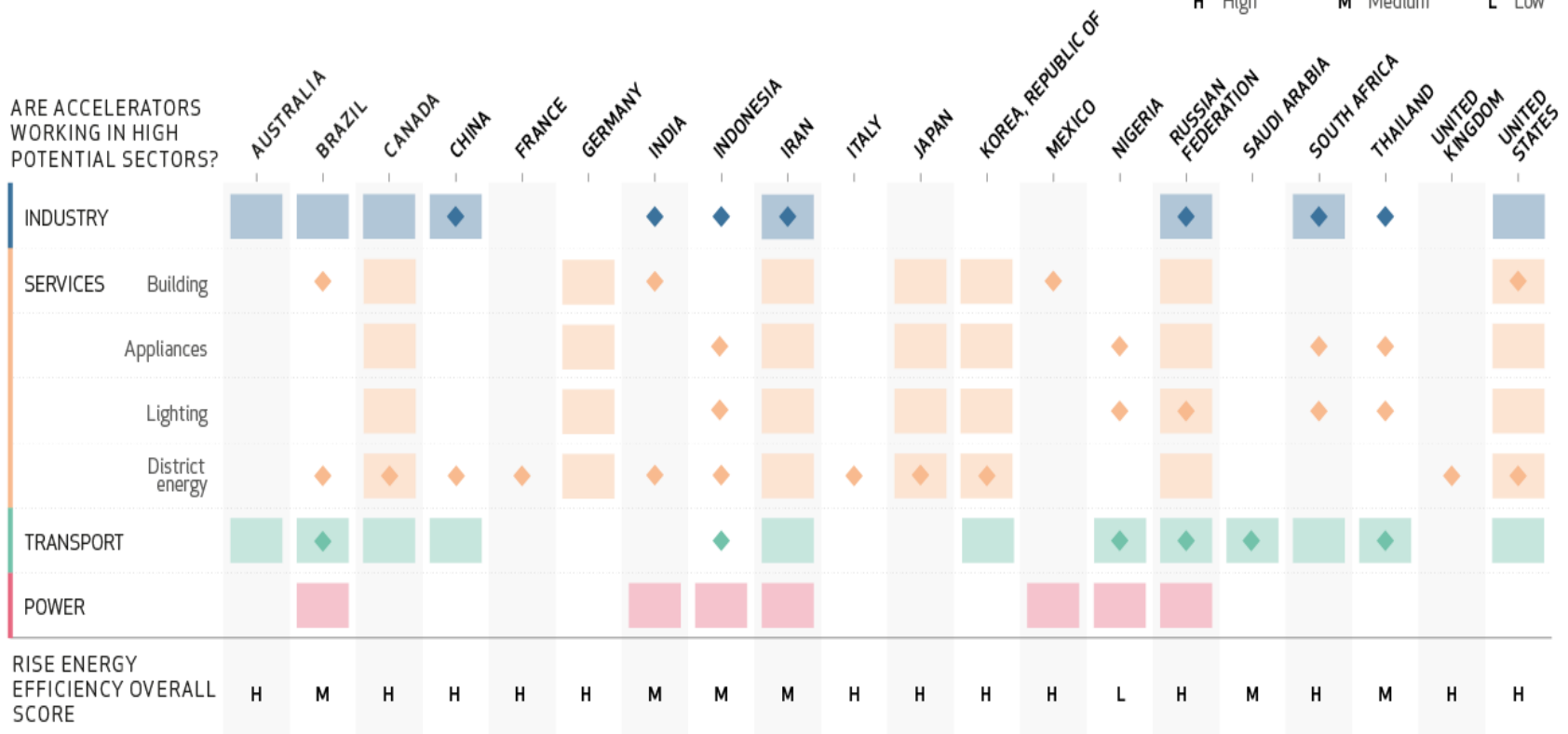
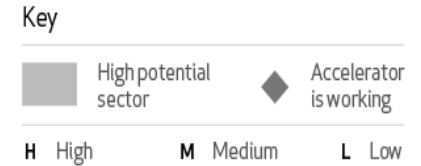
13 out of 20 high impact countries are doing well

7 out of 20 high impact countries still have some way to go

(Regulatory Indicators for Sustainable Energy report 2016)

High potential countries to improve EE?

Which countries have an enabling environment for investment in energy efficiency?

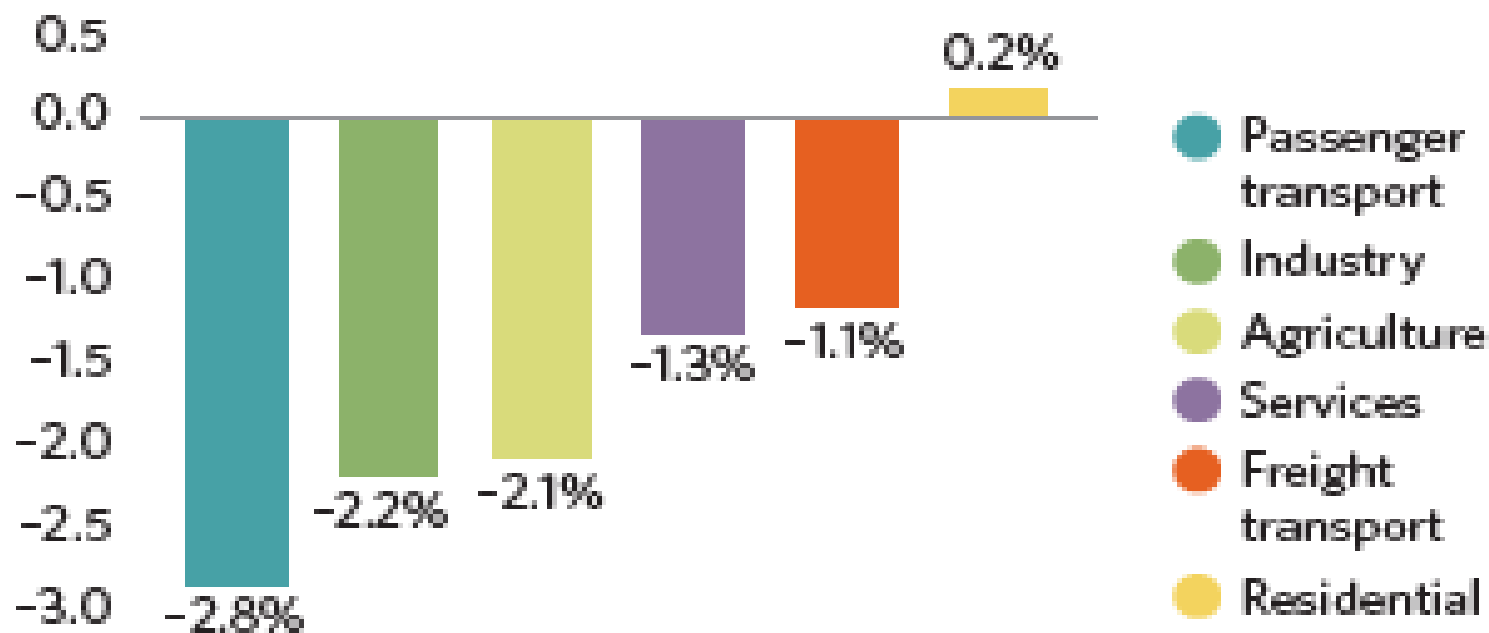


(Regulatory Indicators for Sustainable Energy report 2016)

Where can the fastest results come from?

Relative improvement in final energy intensity by end-use sectors (2012-2014)

Compound annual growth rate of final energy intensity (%)



(Global Tracking Framework report 2017)

Some next steps

- **Energy vs Energy Services** (scale)
- **Integrated approach** (let's start between the SDG7 targets).
- More **communication** and to broader constituencies (simple/key messaging on **multiple benefits**). We need to be **concrete**, with inspiring **people** stories.
- **Educate** (NY based negotiators/UNGA members, consumers, local commercial banks)
- Look at what still hurts (e.g. EE accounting, intangible, risk perception, **recent data**)

Some next steps

- Support **market transformation and adapt** those to small and vulnerable economies. Take care of **SMMEs**.
- Policies and **Business Models**
- Address means of implementation **beyond the UN jargon** (e.g. an investor will be interested in loan guarantees; a city in green procurement for efficient street lighting; internet and the sharing economy)
- Capitalise on local/regional **champions** and S-S exchange.
- **Financing SDG7** (domestic, ODA, private capital). Not just more but better financing.

UN Environment work on EE

Initiatives/Partnerships where UN Environment is co-leading or involved in capacity building programmes on EE:

- **Efficient Lighting**

enlighten initiative ; www.enlighten-initiative.org

- **Efficient appliances and Equipment**

United for Efficiency ; www.united4efficiency.org

- **Vehicle fuel efficiency**

Global Fuel Economy Initiative; www.globalfueleconomy.org

- **District heating and cooling**

District Energy in Cities Initiative; www.districtenergyinitiative.org

- **Building efficiency**

Building Efficiency Initiative ; www.buildingefficiencyinitiative.org

- **Copenhagen Centre on Energy Efficiency**

SEforALL Energy Efficiency Hub; www.energyefficiencycentre.org

Partnership between UN Environment, Government of Denmark and Danish Technical University

Thank you



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