The first global tracking framework lays out the challenge ahead:

While the world is making progress, it isn’t moving fast enough. Business as usual won’t get us there.

WHAT WILL IT TAKE?

THE SUSTAINABLE ENERGY FOR ALL INITIATIVE SETS

3 GLOBAL GOALS FOR 2030

1. ENERGY ACCESS
2. ENERGY EFFICIENCY
3. RENEWABLE ENERGY

IT’S TIME FOR DECISIVE ACTION
ENGLISH ACCESS
PROVIDING UNIVERSAL ACCESS TO MODERN ENERGY

2030 GOAL: 100% GLOBAL ACCESS TO

ELECTRICITY & MODERN FUELS
for cooking

GLOBAL ACCESS TO ELECTRICITY
Pace needs to increase by 38% to reach goal by 2030

BUSINESS AS USUAL WOULD LEAVE 12.16% of the world’s population without electricity

1.2 BILLION PEOPLE HAVE NO ACCESS TO ELECTRICITY TODAY

ACCESS TO ELECTRICITY is essential to end poverty

1990 2010 2030

during the last 20 years 1.7 BILLION PEOPLE gained access to electricity

GLOBAL ACCESS TO MODERN FUELS FOR COOKING
Pace needs to increase by 2.5 times to reach goal by 2030

BUSINESS AS USUAL WOULD LEAVE 31.36% of the world’s population without modern cooking solutions

2.8 BILLION PEOPLE RELY ON SOLID FUELS, SUCH AS WOOD & COAL, FOR COOKING TODAY

Access to safe household fuels will end FOUR MILLION DEATHS a year caused by toxic indoor smoke.

during the last 20 years 1.6 BILLION PEOPLE gained access to less-polluting household fuels

SUGGESTED TACTICS TO REACH GOAL BY 2030:

INVEST in energy generation, including grid and off-grid
EXPAND transmission & distribution networks
BUILD markets for off-grid lighting in rural areas
PROVIDE targeted subsidies for energy access
FOCUS on clean cooking solutions
IMPROVE household and country-level surveys

by: Swathi Sridharam (CRISAT)
Objective 2: Doubling the Rate of Improvement in Global Energy Efficiency

Primary world energy consumption

**1990**
- Consumption: 367 exajoules
- Energy Intensity: 10.2 MEGAJOULES $/PPP

**2010**
- Consumption: 534 exajoules
- Energy Intensity: 7.9 MEGAJOULES $/PPP

**2030**
- Energy Intensity: 4.7 MEGAJOULES $/PPP

Energy intensity: a measure of energy efficiency

Doubling the rate of improvement of energy efficiency saves energy, money & emissions.

From 1990 to 2010, nearly 2,300 exajoules of energy were saved. Equivalent to more than 25 years of primary energy consumption in the U.S.

Suggested tactics to reach goal by 2030:

- **Improve**
  - Energy efficiency standards for buildings
- **Phase Out**
  - Untargeted fossil fuel subsidies
- **Introduce**
  - Policies that put price on carbon
- **Install**
  - Smart-grid and smart-meter technologies
- **Implement**
  - Urban planning that highlights energy savings through building, transport & other infrastructure
- **Public**
  - Awareness campaigns on saving energy
- **Strengthen**
  - Capacity to collect data on energy intensity, efficiency targets, policies and investments

Photo by Alan Radecki Akradecki
Doubling the share of the world’s mix of renewable energy

Pace needs to increase by 2.5 times historical growth rate to reach goal by 2030

<table>
<thead>
<tr>
<th>Year</th>
<th>Renewable Energy</th>
</tr>
</thead>
<tbody>
<tr>
<td>1990</td>
<td>16%</td>
</tr>
<tr>
<td>2010</td>
<td>18%</td>
</tr>
<tr>
<td>2030</td>
<td>36%</td>
</tr>
</tbody>
</table>

Suggested tactics to reach goal by 2030:

- **Establish** a price for carbon
- **Phase Out** untargeted fossil fuel subsidies
- **Introduce** policy incentives for renewable energy such as feed-in tariffs, renewable portfolio standards, auctions
- **Increase** capital flows and reduce risks associated with investing in renewable energy

*photo by: NHD-INFO*
Increase Financing

$1 - 1.2 TRILLION
ANNUAL SPENDING NEEDED

$400 BILLION
ANNUAL SPENDING CURRENTLY

To achieve the goals

Take bold policy steps, such as:

- Phasing out untargeted fossil fuel subsidies
- Using targeted subsidies to promote access
- Establishing a price for carbon
- Adopting strict standards for energy efficiency
- Introducing policy incentives for renewable energy
- Promoting a good investment climate for energy

Meeting the renewable energy and energy efficiency goals can help slow climate change.

JOIN THE GLOBAL EFFORT TO BUILD SUSTAINABLE ENERGY FOR ALL.

Learn more in the Sustainable Energy for All Global Tracking Framework Report:

WorldBank.org/se4all