

Schneider Electric Renewable Energy Philosophy and examples

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Agenda

- **The Energy Landscape**
- **Renewable Energy Philosophy in a nutshell**
- **Access to Energy and MicroGrid**
- **Enabling Access to Energy**
- **Impact of Access to Energy Development**
- **Villaya Solution**
- **From Idea to Realization**

We believe access to energy is a
basic human right

...and the present way of managing energy is
unsustainable



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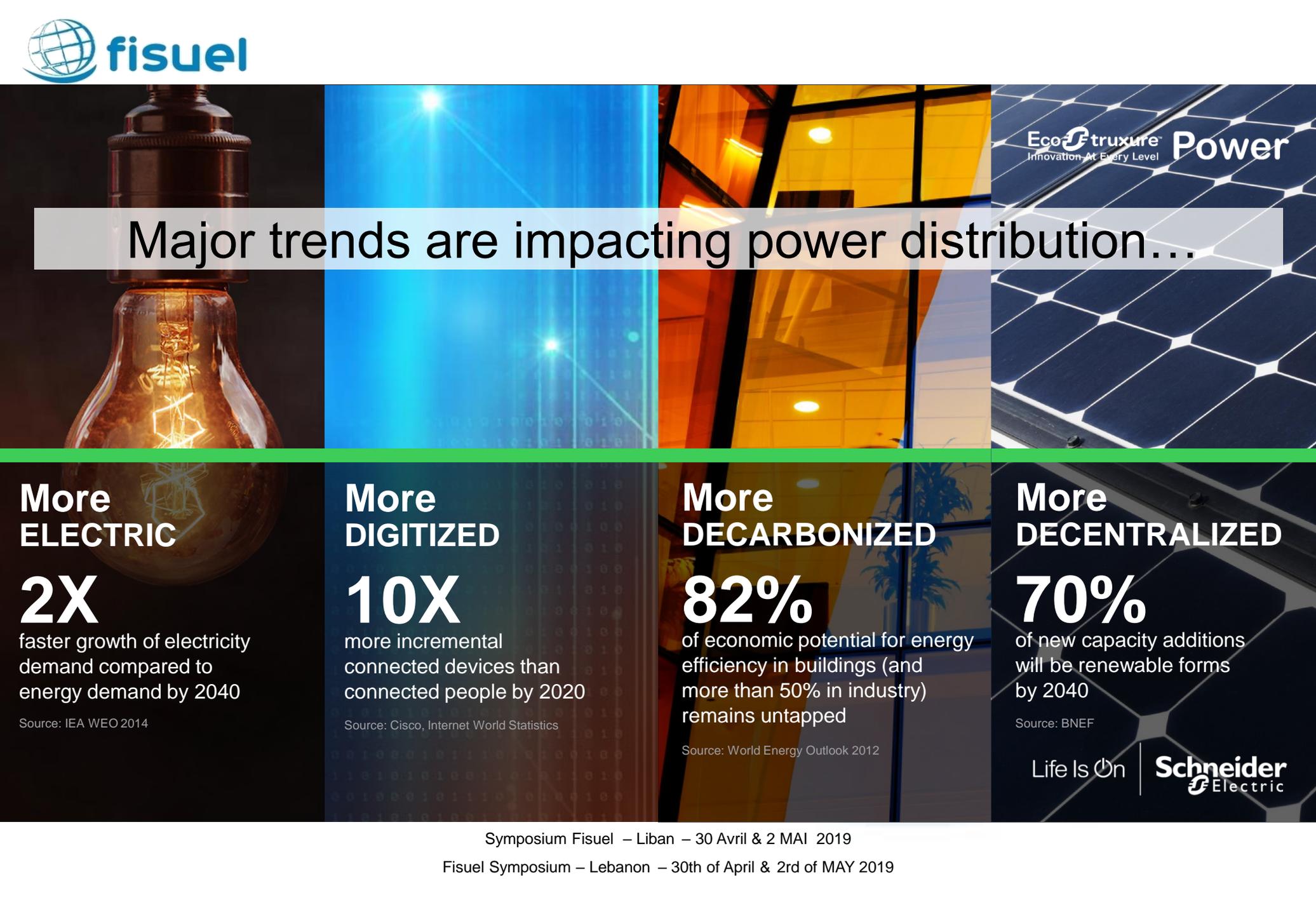
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1.3 billion people currently do not have access to electricity

Another 1 billion people have unreliable and intermittent supply of electricity

Source : IEA, Economist



Major trends are impacting power distribution...

Ecostruxure[™] Power
Innovation At Every Level

**More
ELECTRIC**

2X

faster growth of electricity demand compared to energy demand by 2040

Source: IEA WEO 2014

**More
DIGITIZED**

10X

more incremental connected devices than connected people by 2020

Source: Cisco, Internet World Statistics

**More
DECARBONIZED**

82%

of economic potential for energy efficiency in buildings (and more than 50% in industry) remains untapped

Source: World Energy Outlook 2012

**More
DECENTRALIZED**

70%

of new capacity additions will be renewable forms by 2040

Source: BNEF

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Megatrends are provoking a rise in Energy Demand

URBANIZATION

+2.5B people in cities by 2050

Source: United Nations, DESA



DIGITIZATION

50B connected things by 2020

Source: Cisco



INDUSTRIALIZATION

+50% Energy consumption by 2050

Source: IEA



The world in the next 40 years

$\times 2$

Energy consumption
will double

$\div 2$

CO₂ emissions
need to be
halved

 $4 \times$

We have to become
4 times more efficient

Philosophy in a nutshell

- Thanks to our global footprint, our experience and our expertise in every energy market, we **help clients identifying and maximizing opportunities** to cut energy prices, boost efficiency and reliability, and become more sustainable.
- In a world where margins are slim and energy costs are in flux, there's an enormous opportunity for companies to **save both money and reduce environmental impact** — with the right mix of renewable sources.
- More information following [this link](#)

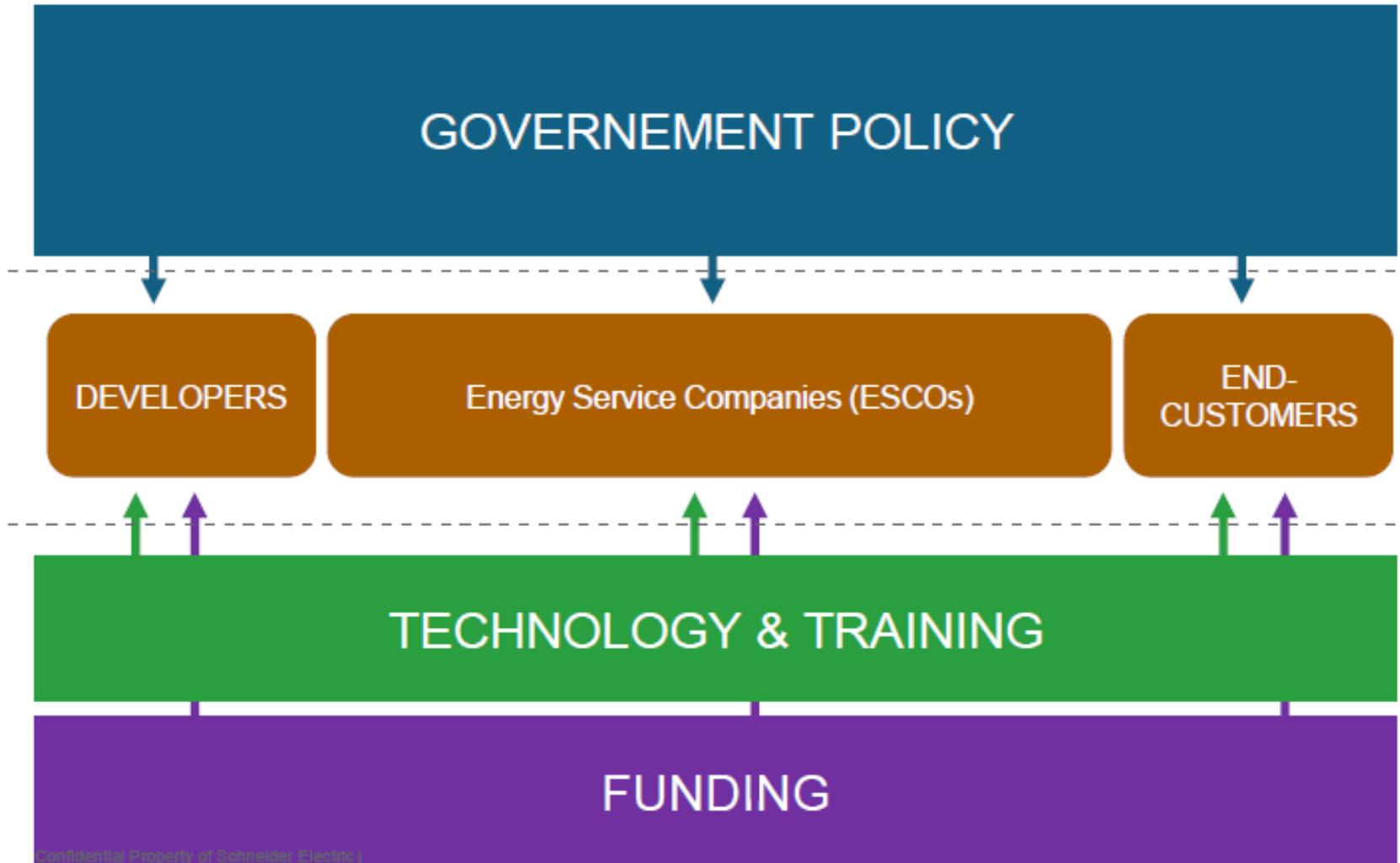
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Access to Energy and Microgrid

- **Access to energy**
 - ➔ Higher standards of living
 - ➔ Economic development
- **Progress in four key areas**
 - ➔ Government regulation,
 - ➔ Financing,
 - ➔ Technology,
 - ➔ Training
- **A key driver for accelerating Access to Energy :**
 - ➔ United Nations Sustainable Development Goal 7 (SDG 7),
 - ➔ Guidepost for ensuring access to affordable, reliable, sustainable and modern energy for all.



Enabling Access to Energy



Confidential Property of Schneider Electric

Source: Adapted from EUEI PDF, *Building Energy Access Markets*, 2015

- **Employment**

- ➔ **4.5 millions jobs by 2030**

- ➔ According to International Renewable Energy Agency (IRENA)

- **Needs**

- ➔ **20,000** decentralized renewable energy companies

- ➔ Small & Medium size Business mainly.

- ➔ More information following [this link](#)

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From Ideas to Realization

○ Donvagne, Ivory-Coast

➔ Initiative of Solar Mamas *

➔ Collaboration Schneider-Electric,
Agence Française de Développement
(AFD) and l'Institut Européen de
Coopération et de Développement
(IECD)

➔ More than 100 Solar kits & Lamps

➔ Mini grid Solar > 25kWc

➔ to equip the women's cooperative
with a mill, a mixer and refrigerators in
order to accelerate its economic
development



* Solar Mamas :
An initiative of the [Barefoot College](#) starting
in India in 1972 to empower women

From Ideas to Realization

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THANK YOU

MERCI

