



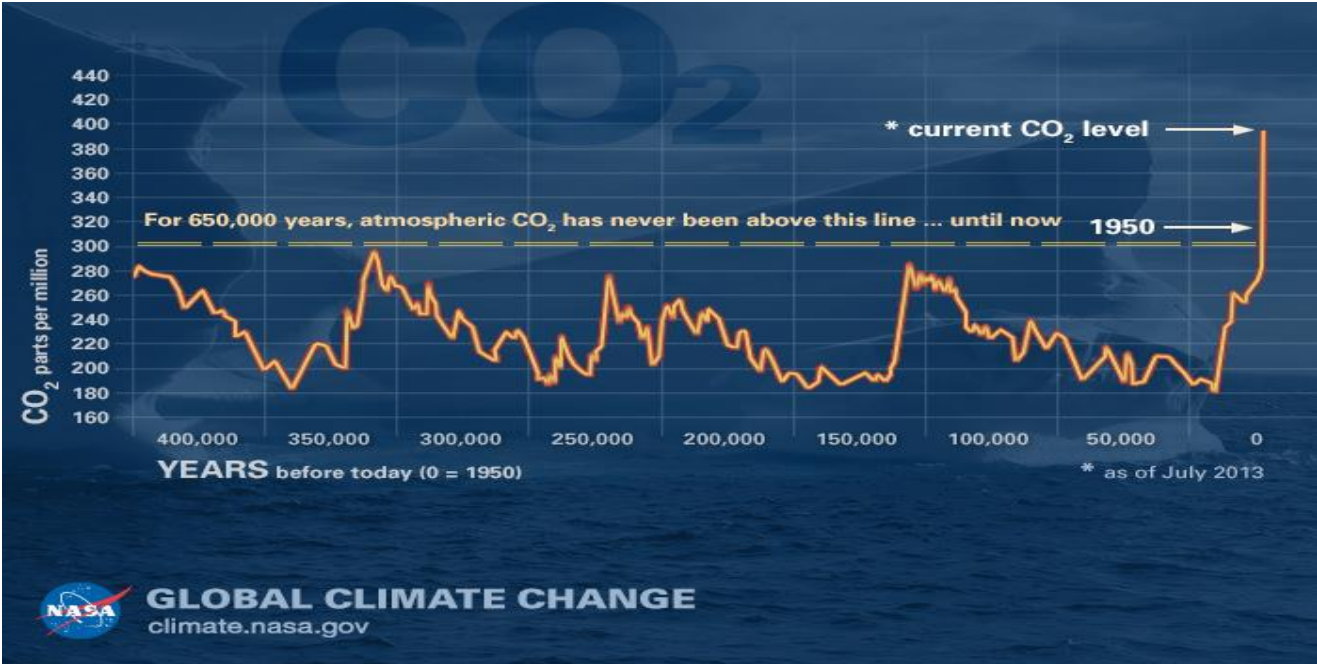
Let us make the sun brighter

K K Sharma, Adviser, ISA

**ISA and Floating Solar
(SCALING UP)**

www.isolaralliance.org

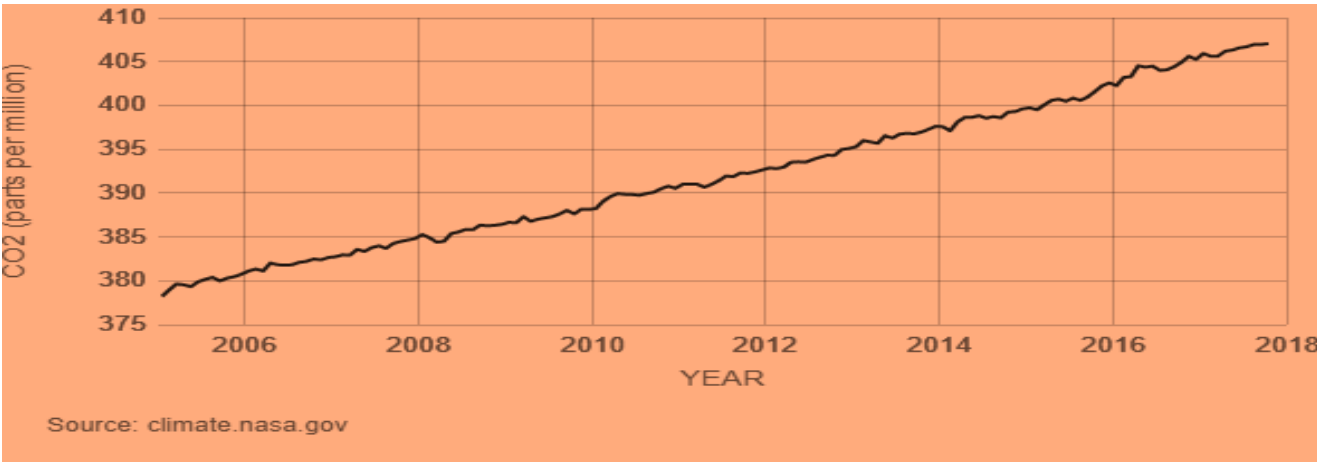
Alarming rise in CO2 levels – Period 1950 to 2017



Carbon Dioxide

LATEST MEASUREMENT: October 2017

407.06 ppm



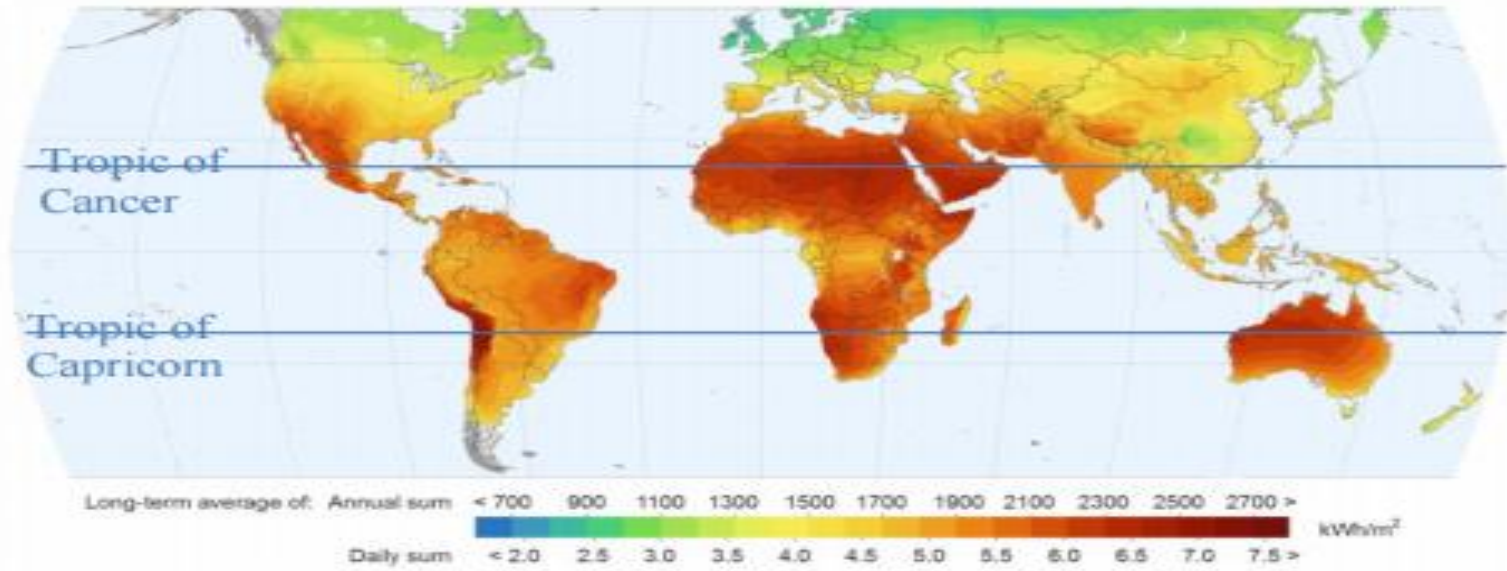
Prime Minister of India,
President of France
and UN Secretary General
at ISA launch
on 30th November, 2015



Prime Minister of India, President of France and Head of States at the ISA Founding Conference – 11th March, 2018



International Solar Alliance (ISA)

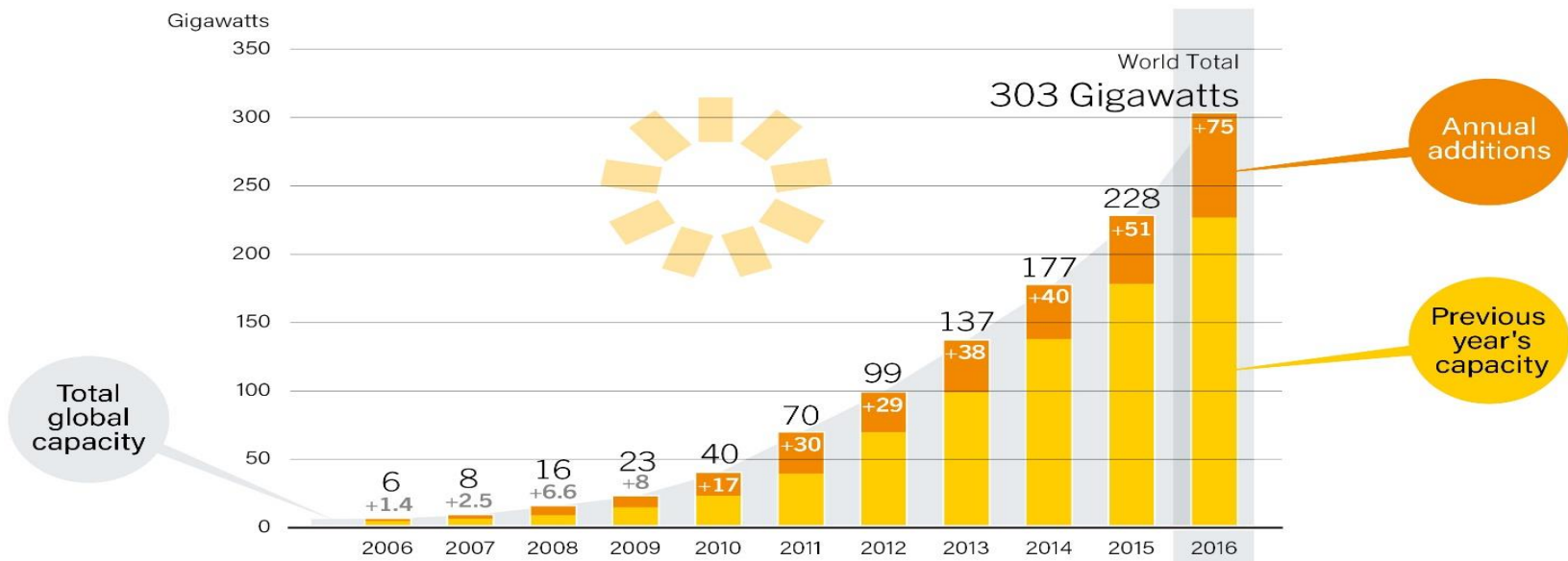


121 Prospective member countries
65 Signatory countries
35 countries have ratified as on 1st June, 2018

2016 – An Extraordinary Year for Renewable Energy



Solar PV Global Capacity and Annual Additions, 2006-2016



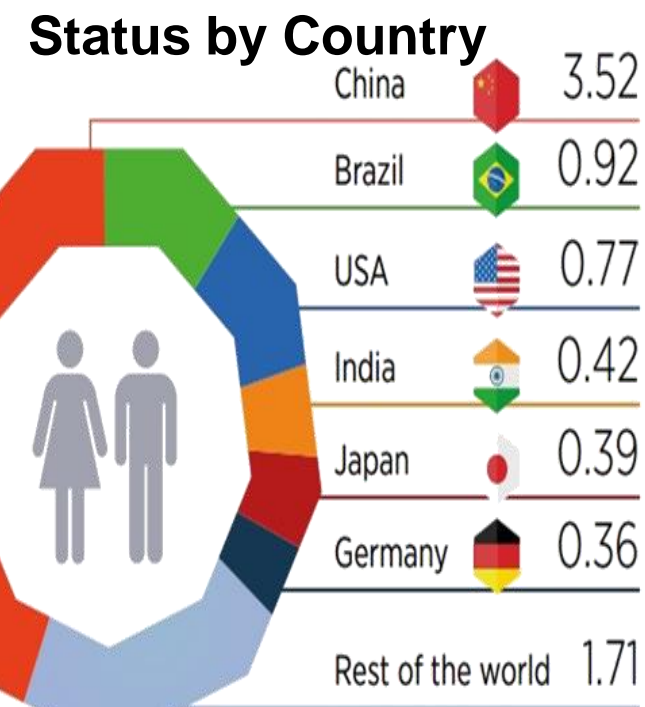
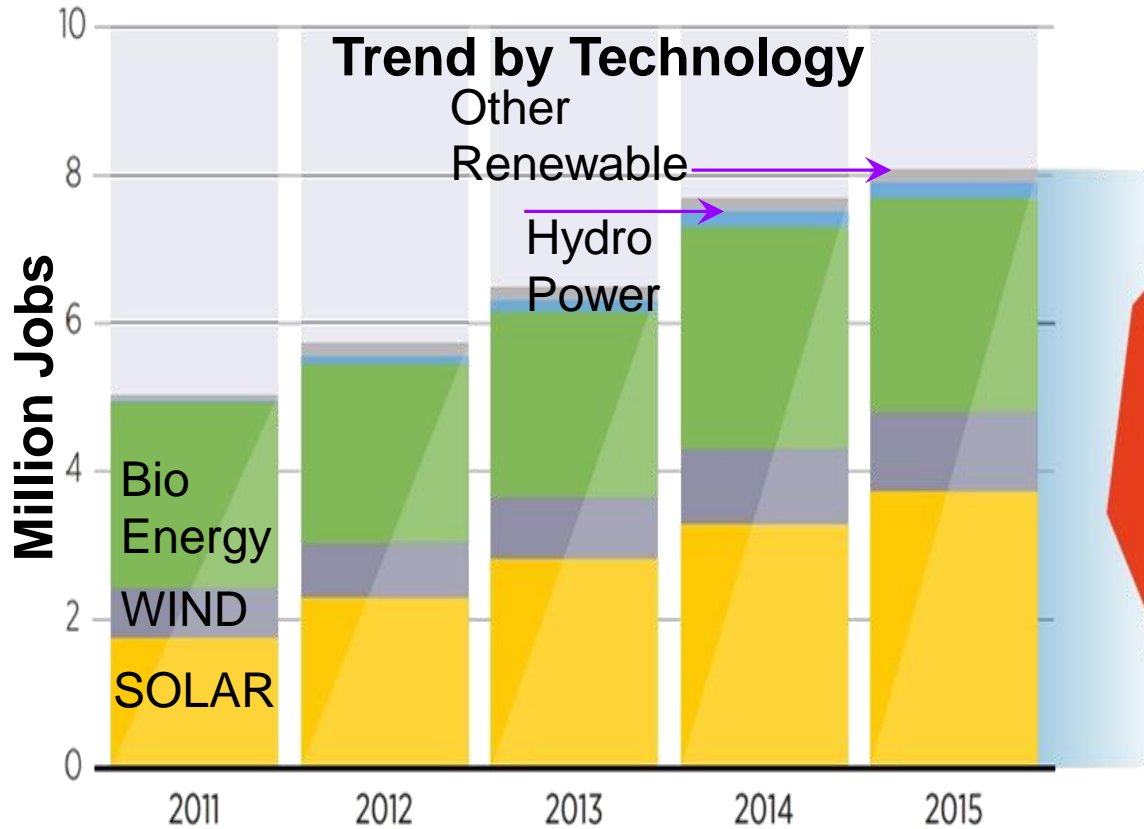
REN21 *Renewables 2017 Global Status Report*



Global solar PV capacity **303 GW** in 2016

Capacity addition **75 GW** (47% of the total RE capacity addition)

Employment trends in Solar Energy 2011 – 2015



Solar PV - largest employer (2.8 million jobs) out of estimated 8.1 million jobs in renewable energy sector (IRENA, 2016c)

SOLAR INSTALLATIONS



Conventional

- I) **Ground-mounted**
- II) **Rooftop**

Recent

- I) **Canal-top**
- II) **Off-shore**
- III) **Floating**

Potential Locations for Floating Solar

Hydroelectric Dams

Other water bodies

Reservoirs

Water treatment plants

Lakes/Ponds



Why Floating Solar in Hydro Reservoirs



Will address following RE development issues :

(i) land availability,

**(ii) variability of solar output
(spare transmission capacity available)**

(III) storage for daily load-shifting.

Floating Solar Projects



70 projects (globally)

Mostly in Asia

**Now shifting to large projects (100
– 200 MWs)**

**India 10 GW initiative (to cover 60
sites)**

Source: ADB Consultants

Floating Solar Projects



Potential in ASEAN

Over 10 GW

(exclusive of Indonesian and Malaysian states on Borneo)

Source: ADB Consultants



Floating Solar Potential in Greater Mekong Sub-region

<i>Country</i>	<i>Potential</i>	<i>Information Source</i>
Cambodia	1 GW	National Heritage Institute
Lao PDR	3.5 GW	ADB consultants
Myanmar	1 GW	ADB consultants
Peninsular Malaysia	1.2 GW	ADB consultants
Thailand	6 GW	EGAT
Vietnam	2 GW	Ciel et Terre
<i>Total</i>	<i>12 GW</i>	

Role of International Solar Alliance



ISA has mandate to

1. Scaling Solar programmes

1000 GW by 2030

mobilize 1000 B USD

2. Affordable Finance

ISA PROGRAMMES



Four (4) Programmes so far to aggregate demand & to reduce cost.

- 1. Scaling Solar Applications for Agricultural Use**
- 2. Affordable Finance at Scale**
- 3. Scaling Solar Mini-grids**
- 4. Scaling Solar Roof top**

Solar Projects



In member countries

**And in collaboration with
multilaterals, like**

ASIAN DEVELOPMENT BANK

**(ISA will facilitate all types of Solar
projects in Member countries)**



- **EU assisted ISA project to establish and maintain a Digital Infopedia Platform with three (3) major components**
 - 1. Country Counter**
 - 2. Best Practices**
 - 3. Audio & Video interaction**

Contributing Organizations : ISA Corpus Fund



US \$ 1 million each ; Soft Bank US \$ 2 million

Partner Organizations



ISA has signed Joint Declarations with Partner Organizations to promote solar energy globally

Thank You
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