

# SIDS Lighthouses Initiative

## Supporting Small Island Developing States in Energy Transformation



- » Established in 2011
- » Headquarters in Masdar City, Abu Dhabi, UAE
- » IRENA Innovation and Technology Centre – Bonn, Germany
- » Permanent Observer to the United Nations – New York, USA

## Mandate

To promote the widespread adoption and sustainable use of **all forms of renewable energy** worldwide



Bioenergy



Geothermal  
Energy



Hydropower



Ocean  
Energy



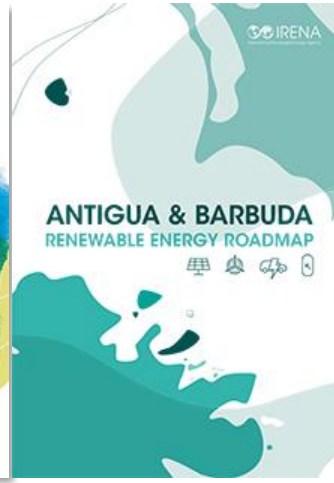
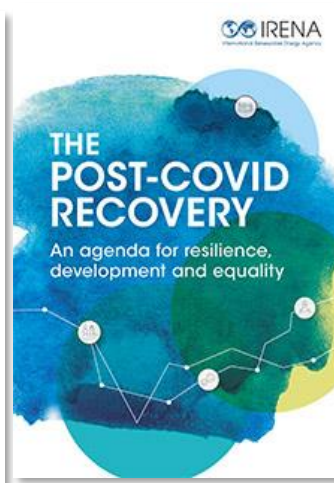
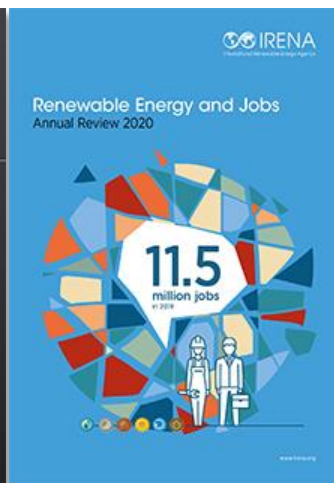
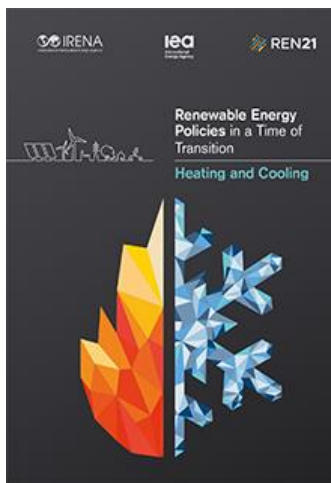
Solar  
Energy



Wind  
Energy



- Renewable energy capacity and use worldwide: maximum net generating capacity of power plants and other RE installations (MW)
- Data sets on power generation capacity (GWh), actual power generation, renewable energy balances
- Investments in renewables presented in USD million at 2017 prices
- Off-grid power capacity, biogas production and numbers of household users for cooking and lighting. Off-grid renewables provide power for water pumping, street lighting, telecommunications towers, rural schools and clinics, as well as for remote commercial and industrial facilities and other uses.



# SIDS Lighthouses Initiative

## Priority Areas

1. **NDCs, with technical assistance and capacity building**

2. Assessment, planning and **implementing** effective, innovative solutions.

3. **All renewable sources**, including geothermal and ocean energy, wind and PV

4. Development of bankable projects, **access to finance** and co-operation with the **private sector**

5. Strengthen **institutional and human capacity**

6. Expand focus beyond power generation to include **transportation and other end-use sectors**

12. Boost renewable power deployment, aiming for a target of 5 GW of installed capacity in SIDS by 2023

7. Leverage synergies between renewables and **energy efficiency**

8. **Nexus** between RE and agriculture, food, health and water – to foster broad **socio-economic development: job creation, gender equality and women's empowerment** through renewables.

9. Link renewable energy uptake to climate resilience and more effective disaster recovery.

10. **Enhance collection and dissemination of statistics, supporting informed decision-making**

11. Reinforce and expand partner engagement, leveraging synergies with other SIDS initiatives

## Caribbean

**3 584 MW**

Anguilla	Curaçao	Martinique
Antigua and Barbuda	Dominica	Montserrat
Aruba	Dominican Republic	Puerto Rico
Bahamas	French Guiana	Saint Lucia
Barbados	Grenada	Saint Vincent and the Grenadines
Belize	Guadeloupe	Suriname
British Virgin Islands	Guyana	Trinidad and Tobago
Cayman Islands	Haiti	Turks and Caicos
Cuba	Jamaica	

## AIMS

(Atlantic, Indian Ocean and South China Sea)

**783 MW**

Bahrain  
Cabo Verde  
Comoros  
Guinea Bissau  
Maldives  
Mauritius  
São Tomé and Príncipe  
Seychelles  
Singapore

## Pacific

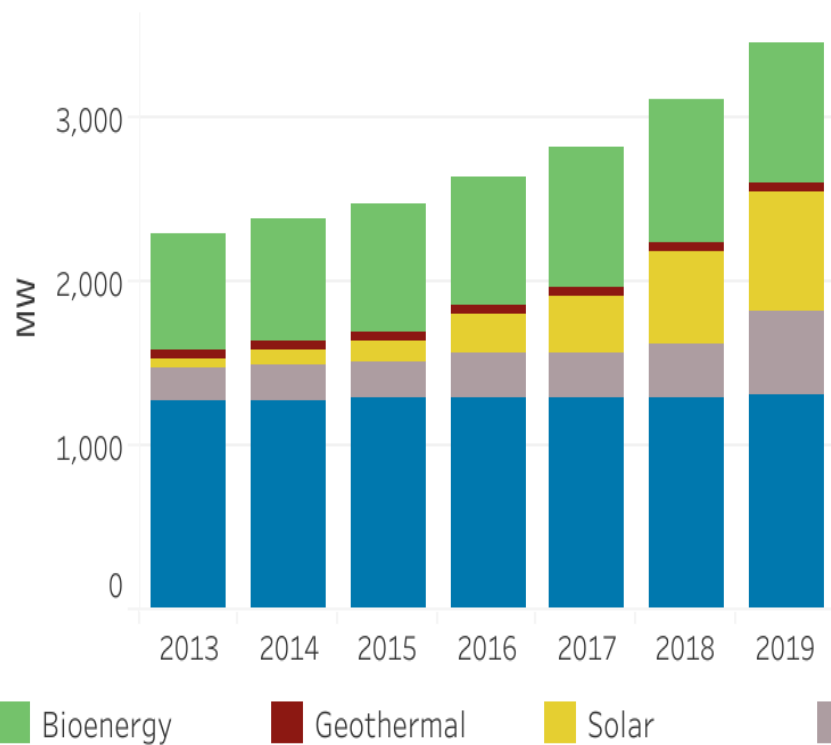
(excluding Australia and New Zealand)

**920 MW**

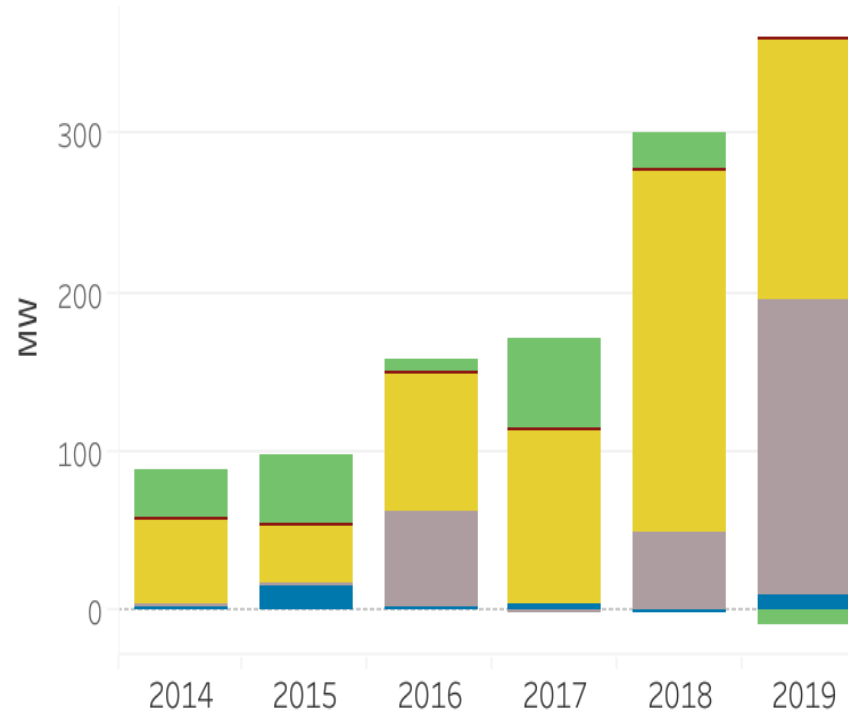
American Samoa	Niue
Cook Islands	Palau
Fiji	Papua New Guinea
French Polynesia	Samoa
Guam	Solomon Islands
Kiribati	Timor-Leste
Marshall Islands	Tonga
Micronesia	Tuvalu
Nauru	Vanuatu
New Caledonia	

**Installed capacity of renewables for all SIDS in 2019 (MW)**

Installed Renewable Energy Capacity by Technology  
2014-2019



Annual Renewable Energy Additions



Renewable Energy Additions 2014 - 2019

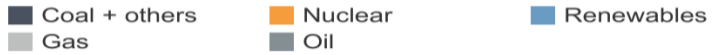
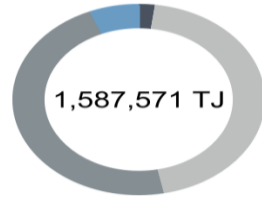


**Note:** This dashboard illustrates progress made by SIDS partners of the Lighthouses Initiative based on latest renewable energy statistics.

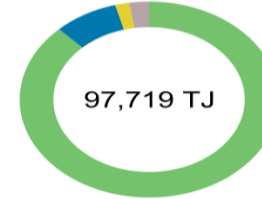
**Source:** IRENA Statistics [www.irena.org/statistics](http://www.irena.org/statistics)

## TOTAL PRIMARY ENERGY SUPPLY

Total Primary Energy Supply in 2017

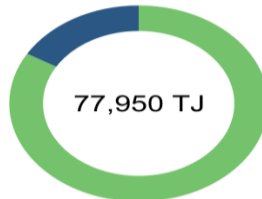


Renewable Energy Supply in 2017

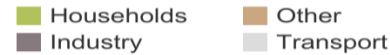
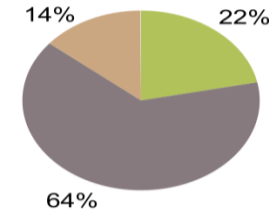


## RENEWABLE ENERGY CONSUMPTION

Renewable Energy Consumption by Source in 2017

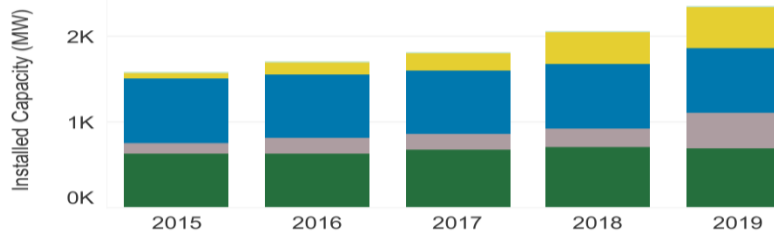


Renewable Energy Consumption by Sector in 2017

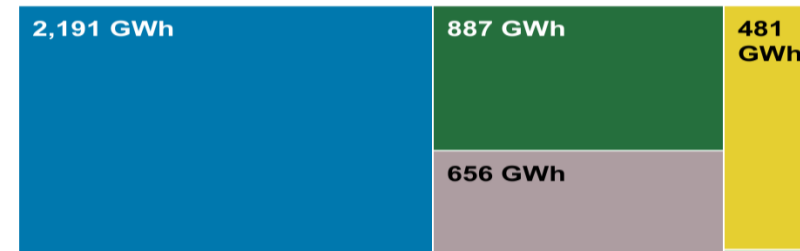


## ELECTRICITY CAPACITY AND GENERATION

Installed Renewable Energy Capacity Last 5 Years

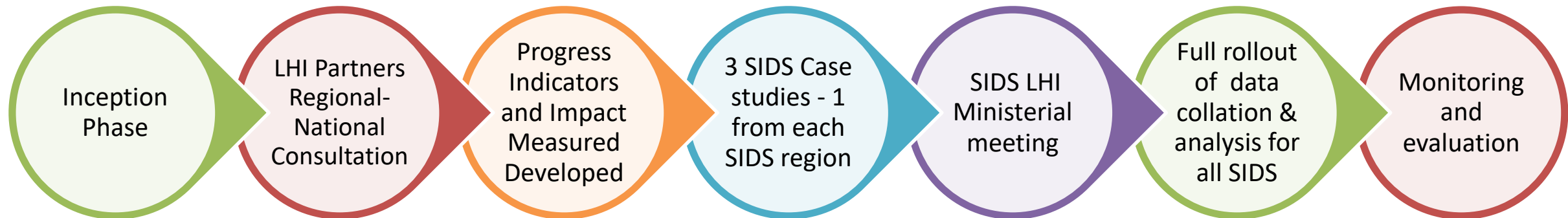


Renewable Electricity Generation in 2018





AGENDA 2030 SUSTAINABLE DEVELOPMENT INDICATORS

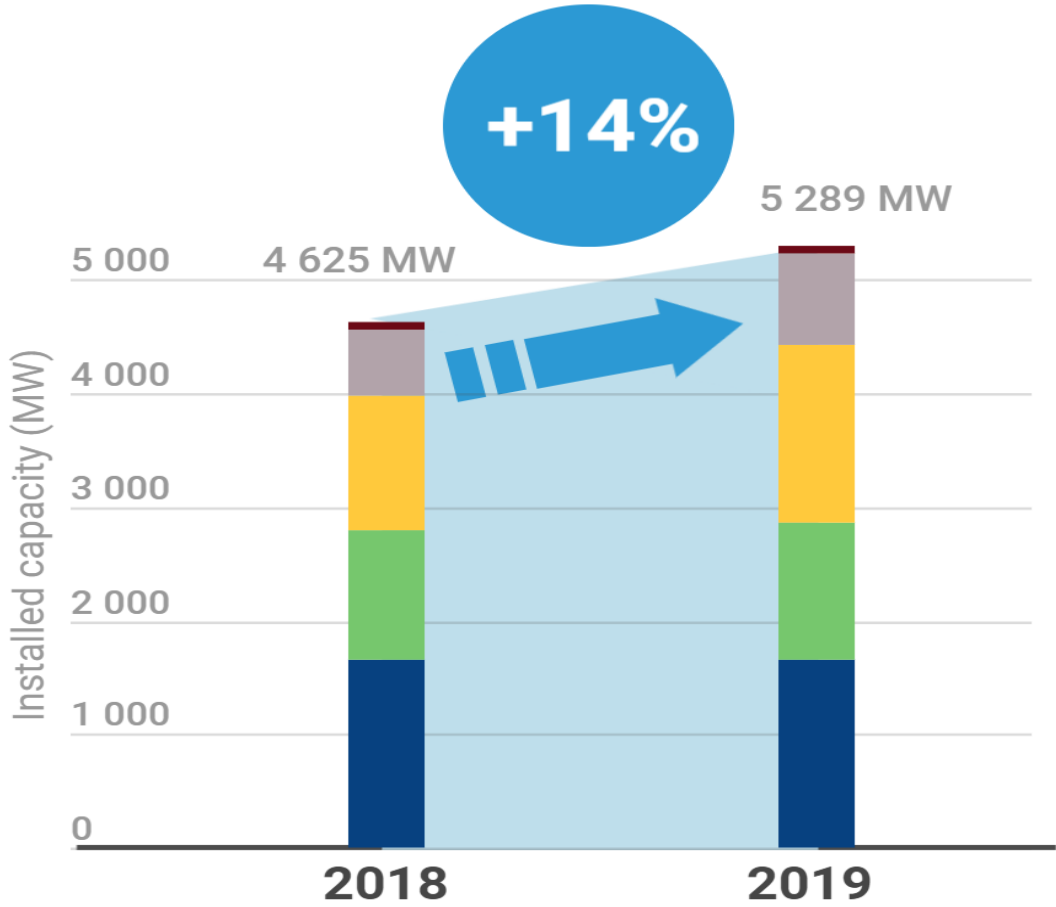


S.A.M.O.A PATHWAY PROGRESS INDICATORS AND IMPACT MEASURES

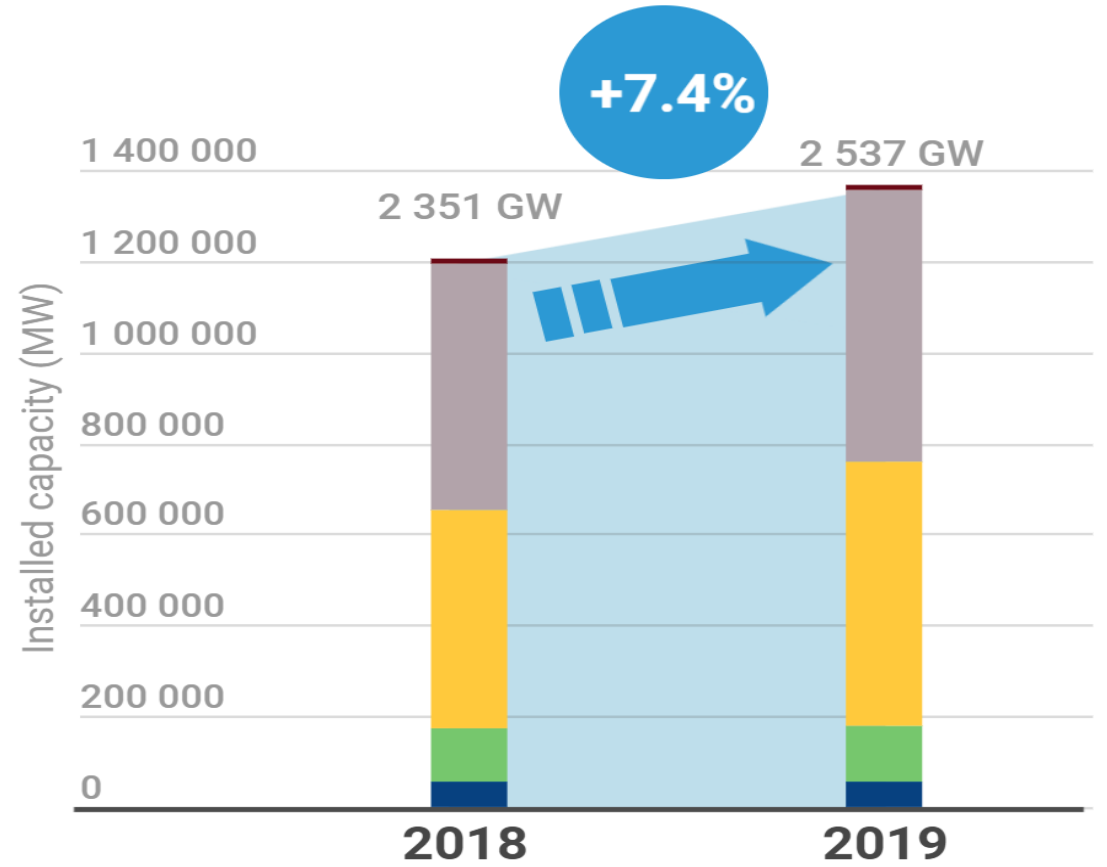




**Socio-economic benefits**



SIDS



GLOBAL

- Hydropower
- Bioenergy
- Solar
- Wind
- Geothermal

## SIDS Lighthouses Initiative Focal Points

**Mr. Amjad Abdullah**  
Head - Partnerships  
AAbdullah@irena.org

**SIDS LHI Email:**  
[Islands@irena.org](mailto:Islands@irena.org)

**SIDS LHI WEBSITE:**  
<https://islands.irena.org>

**Ms. Arieta Gonelevu Rakai**  
Programme Officer, SIDS LHI  
ARakai@irena.org