

January 2022

SUPPORT THE ONE SUN DECLARATION

On 2 November 2021 the [One Sun Declaration](#) was issued at the UN climate summit in Glasgow, the founding document for the Green Grids Initiative - One Sun One World One Grid partnership. The Declaration, and a list of the more than 90 countries so far endorsing it, are attached, together with statements by Prime Ministers and Ministers at the Glasgow launch events. The Declaration commits governments to work together to build the new energy system needed to power the world economy with renewable energy.



Climate Parliament
Legislators working worldwide to combat climate change

How we can make this happen, and *fast* :

1

Legislators, journalists, civil society groups and citizens can build political will by urging all governments to step up the pace.

2

Researchers and engineers can contribute ideas and advice to governments and lawmakers.

3

Companies, investors, philanthropists and international organisations can take the lead on developing and financing clean energy superhighways, community grid programmes and smart charging networks for electric vehicles.

Legislators, citizens, organisations and companies are invited to add their name to the statement of support below, as a first step towards building political will to implement the One Sun Declaration. The statement of support has been produced independently by the Climate Parliament. Please respond to info@climateparl.net or visit www.greengrids.world

Statement of Support

January 2022

“All the energy humanity uses in a year is equal to the energy that reaches the earth from the sun in a single hour. The sun’s energy causes the wind to blow and the rain to fall. And that sunshine, wind and water can power our global economy.

The transition to renewable energy needs to advance at unprecedented speed. Three quarters of the gases that are heating the planet come from fossil fuels. The Intergovernmental Panel on Climate Change has made clear that only the most rapid global energy transition will give us a real chance of limiting the earth’s temperature increase to 1.5°C.

We welcome the One Sun Declaration issued by world leaders at the 2021 climate summit in Glasgow, committing governments to accelerate the construction of green grids. To meet our needs with affordable, clean energy we need continental-scale smart grids that can connect millions of small energy sources and thousands of large wind farms and solar power stations in the best locations. These must be combined with energy storage using batteries, existing hydro dams and green hydrogen. To ensure energy access for all and resilience in the face of extreme weather, community grids powered by renewable energy are needed everywhere. And to enable a rapid shift to clean transport, smart charging infrastructure for electric vehicles must be built in every nation.

We call on governments to engage actively to implement the One Sun Declaration.

We commit ourselves to support this global endeavour to build our new energy system before it is too late.”

Members of Parliament:

Ayoub Cheraitia, Algeria
Sen. Mustapha Djeghdali, Algeria
Nadjib Drouiche, Algeria
Houria Oulebsir Khenas, Algeria
Dr Mohammed Mehaya, Algeria
Mohamed Nemamcha, Algeria
Abdelghani Ouicher, Algeria
Euric Guidi, Benin
Issa Mardo Djabir, Chad
Diakardia Bamba, Côte d'Ivoire
Alain Ekissi, Côte d'Ivoire
Sahoua Sylvain Gaully, Côte d'Ivoire
Yacouba Sangare, Côte d'Ivoire
Jean François D. Sonan, Côte d'Ivoire
Hassan Aden Guedi, Djibouti
Abdallah Barakat Ibrahim, Djibouti
Mahamoud Moustapha, Djibouti
Hassan Omar, Djibouti
Christine Mwando, DRC
Didier Sadi, DRC
Maha Abdelnaser, Egypt
Karim Darwish, Egypt
Freddy Elbaiady, Egypt
Khennas Oulebsir Houria, Egypt
Rawan Lasheen, Egypt
Amira Saber, Egypt
Annie Chapelier, France
Lemanken Aramat, Kenya
Francis Ganya, Kenya
Abshiro Halake, Kenya
Vicent Willie, Liberia
Hayat Bouffarrachen, Morocco
Abdulmumin Abdulsalam, Nigeria
Awaji-Inombek Abiante, Nigeria
Yusuf Ahmed Tijani, Nigeria
Luke Onofiok Akpan, Nigeria
Shehu Balarabe, Nigeria
Sani Umar Balarabe, Nigeria
Samuel Onuigbo, Nigeria
Simon Gill, Seychelles
P.C Haja Kajue, Sierra Leone
Abdul Titus Kamara, Sierra Leone
Rebecca Yei Kamara, Sierra Leone
Abdul Kargbo, Sierra Leone
P.C Kandeh Kawalleh, Sierra Leone
Saa Emerson Lamina, Sierra Leone
Neneh Lebbie, Sierra Leone
Yusuf Mackery, Sierra Leone
Dickson Momoh, Sierra Leone
Quintin Salia-Konneh, Sierra Leone
Hassan Sankoh, Sierra Leone
Sulaiman Sesay, Sierra Leone
Bashiru Silikie, Sierra Leone,
Catherine Tarawallie, Sierra Leone
Keikura Vandy, Sierra Leone
Dr. Kandeh Yumkella, Sierra Leone
Bantu Holomisa, South Africa
Simpfiwe Mbatha, South Africa
Cheryl Phillips, South Africa
Jamila Ksiksi, Tunisia
Richard Lumu, Uganda
Brightness Mangora, Zimbabwe
Annastacia Tatenda Mavetera,
Zimbabwe

GREEN GRIDS INITIATIVE - ONE SUN ONE WORLD ONE GRID: ONE SUN DECLARATION

The untapped potential of the sun is well known – **all the energy humanity uses in a year is equal to the energy that reaches the earth from the sun in a single hour**. The sun never sets – every hour, half the planet is bathed in sunshine. By trading energy from sun, wind and water across borders, we can deliver more than enough clean energy to **meet the needs of everyone on earth**. This trading is already beginning to happen through discrete bilateral and regional arrangements. But to meet the sheer scale of the challenge, these efforts need to be brought together and supplemented to create a more inter-connected global grid. We call this vision: **One Sun One World One Grid**.

We need new transmission lines crossing frontiers and connecting different time zones, creating a global ecosystem of interconnected renewables that are shared for **mutual benefit and global sustainability**. This must be combined with expanded and modernised national and regional grids and complemented with the rapid scale-up of mini-grids and off-grid solar solutions.

To help deliver the vision of One Sun One World One Grid, we have resolved to **combine our efforts and create a more inter-connected global grid**. Our next step is to develop an **action agenda for global cooperation** on this agenda. Through working groups of interested governments, regulators, financiers, institutions, companies, legislators and researchers, we will seek to provide a **common global framework** for efforts on:

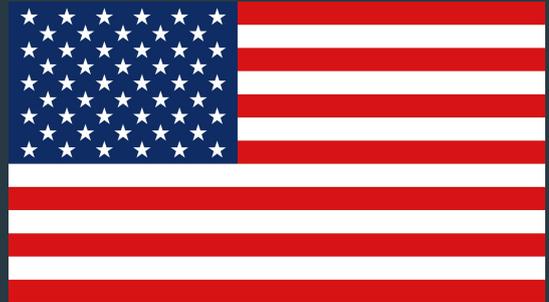
- 1** Investing in solar, wind, storage and other renewable energy generation in locations endowed with renewable resources for supporting a global grid.
- 2** Building long-distance cross-border transmission lines to connect renewable energy generators and demand centres across continents, underpinned by effective and mutually beneficial cross-border power trading arrangements.
- 3** Developing and deploying cutting edge techniques and technologies to modernise power systems and support green grids which can integrate billions of rooftop solar panels, wind turbines and storage systems.
- 4** Supporting the global transition to zero emission vehicles through incorporating the role of electric vehicles to help improve grid flexibility.
- 5** Attracting investment into solar mini-grids and off-grid systems to help vulnerable communities gain access to clean, affordable, and reliable energy without grid access in their own areas, enhancing socio-economic development and a resilient power supply for all.
- 6** Developing innovative financial instruments, market structures, and financial and technical assistance to attract low-cost capital, including climate finance, for global solar grid infrastructure.

Through these and other efforts, we intend to **cooperate internationally** to share ideas and learn from each other's successes and expertise. In this common endeavour, we can ensure that the sun becomes a secure and reliable source of energy for all, especially for the world's underprivileged citizens.

Realizing One Sun One World One Grid through **interconnected green grids** can be transformational, enabling all of us to meet the targets of the Paris Agreement to **prevent dangerous climate change, to accelerate the clean energy transition, and to achieve the Sustainable Development Goals**. These efforts can stimulate green investments and create millions of good jobs. By sharing the sun's energy, we can help to build a **more peaceful and prosperous world**.



□ **Members of the Green Grids Initiative -
One Sun One World One Grid Steering
Group*:**



**Representatives from Africa, Latin America, South East Asia and Small
Island Developing States to be determined*

Endorsed by:

January 2022

| | | | | | | | |
|---|------------------------------|---|-------------------|---|-------------------------------|---|----------------------|
|  | Albania |  | Egypt |  | Mali |  | Senegal |
|  | Algeria |  | El Salvador |  | Marshall Islands |  | Seychelles |
|  | Argentina |  | Equatorial Guinea |  | Mauritius |  | Somalia |
|  | Azerbaijan |  | Ethiopia |  | Mongolia |  | South Sudan |
|  | Bangladesh |  | Fiji |  | Morocco |  | Sri Lanka |
|  | Barbados |  | Gabon |  | Mozambique |  | St. Lucia |
|  | Belize |  | Gambia |  | Myanmar |  | Sudan |
|  | Belgium |  | Germany |  | Namibia |  | Suriname |
|  | Benin |  | Ghana |  | Nauru |  | Sweden |
|  | Botswana |  | Grenada |  | Nepal |  | Tanzania |
|  | Burkina Faso |  | Guinea |  | Netherlands |  | Togo |
|  | Burundi |  | Guyana |  | Nicaragua |  | Tonga |
|  | Cambodia |  | Haiti |  | Niger |  | Trinidad and Tobago |
|  | Cameroon |  | Holy See |  | Nigeria |  | Tuvalu |
|  | Chad |  | Ireland |  | Oman |  | Uganda |
|  | Comoros |  | Italy |  | Papua New Guinea |  | Ukraine |
|  | Cote d'Ivoire |  | Jamaica |  | Peru |  | United Arab Emirates |
|  | Cuba |  | Jordan |  | Rwanda |  | Vanuatu |
|  | Democratic Republic of Congo |  | Kiribati |  | St Vincent and the Grenadines |  | Venezuela |
|  | Denmark |  | Madagascar |  | Samoa |  | Zambia |
|  | Djibouti |  | Malawi |  | Sao Tome and Principe |  | Zimbabwe |
|  | Dominica |  | Maldives |  | Saudi Arabia | | |

Excerpts from statements during COP26 presentation of the Initiative

Prime Minister Narendra Modi, India

"If we want to re-establish a life that is in balance with nature, the path to this life can only be lit by our sun... The sun's unlimited energy is completely clean and sustainable. The only challenge is that solar energy is only available during the day and is dependent on weather conditions. One Sun One World One Grid is a solution for this very challenge. It will enable us to provide clean energy, everywhere, at all times... This creative initiative will not only reduce our carbon footprint and the cost of energy, it will also open up new avenues for cooperation between different regions and different countries. I'm confident that the harmonisation between One Sun One World One Grid and the Green Grids Initiative will help in developing a joint and robust global grid."

Prime Minister Fiamē Naomi Mata'afa, Samoa

"Climate change is at the heart of our vulnerabilities as small island developing state nations and peoples... Accelerating the deployment of modern green grids globally will contribute to shared solutions that will address climate change and promote more resilient infrastructure... Samoa aims to generate 100% of its electricity from renewable sources by 2025."

Angus Taylor, Minister of Industry, Energy and Emissions Reduction, Australia

We've set ourselves the goal of getting solar costs down to 1.5 cents per kilowatt hour, and that will be profoundly transformational for energy systems across the world... Interconnection becomes more and more important as we see more intermittency coming into our grid. Storage, including pumped storage and hydrogen, also becomes more and more important as you put more renewables into the grid... You solve the problems for one country, you solve them for every country. So collaboration is absolutely essential if we are to get to net zero in a timely way.

Jean-Yves Le Drian, Minister for Europe and Foreign Affairs, France

“France is very pleased to support the Green Grids Initiative – One Sun One World One Grid. Today France, India, the United Kingdom and other countries have decided to unite their forces to provide this vision with a global dimension. This initiative will allow private and public stakeholders to work together in order to speed up investments in electric grids in particular in developing countries. France within the European Union has acquired solid experience in electric grids and regional interconnection. We would like to make this experience available through the Green Grids Initiative, which is another milestone on the path to achieving the goals of both the Paris Agreement and the goal of access to sustainable and affordable energy set by Agenda 2030.”

Bhupendra Yadav, Minister of Environment, India

“The sun is constant at some geographical location globally at any point of time. The sun’s energy can be harnessed and transported through an intercontinental grid across the regions to the far east and the far west, transforming the way we generate and consume energy. Increasing the balancing areas can provide structural and sustainable flexibility at the macro level. We need to connect various regional power pools to eventually form a global grid. Sustainable development and climate change mitigation are at the heart of the Green Grids Initiative – One Sun One World One Grid and the scale of the project could make it the next big modern engineering marvel.”

Goddy Jedy Agba, Minister of State for Power, Nigeria

“There are no pathways to net zero by 2050 that do not include ending energy poverty by 2030... This initiative champions the possibility of collective action across borders to pursue our common goals. The issue of decarbonisation is deeply linked to grids, as in developing countries across the world grid infrastructure continues to offer an impediment to expanding the share of viable renewable energy into the energy system... In this context, Nigeria welcomes the Green Grids Initiative.”

Kwasi Kwarteng, Secretary of State for Business, Energy and Industrial Strategy, United Kingdom

“This is an exciting initiative which will help us take on the challenge of net zero, and allow us to think more holistically and systematically about green grids. The initiative will bring together key actors on the green grids agenda to support countries to realise their clean energy potential. There will be new cross-border interconnections, there will be stronger regional and national grids and modern power systems, storage, mini-grids. The potential for this is extraordinary. Collaboration and interconnection are vital... Greening our grids will not be easy, but with this collaboration and goodwill I am confident that we can rise to the challenge. I hope everyone will play their part in helping us to realise this brilliant concept.”

Jennifer Granholm, Secretary of Energy, United States of America

“I note that the One Sun Declaration says this: ‘all the energy humanity uses in a year is equal to the energy that reaches the earth from the sun in a single hour’. Can you imagine right now, we are wasting all of that energy by not capturing it! The grid sun combination is going to be what saves the planet. You have focused on the two most important pieces of the puzzle. We at the Department of Energy in the United States are very happy to be a partner with you in this... We want to be able to lead with you, follow with you, learn from you.”

