



## **SHARING/TRADING OF SOLAR POWER AMONG GROUPS/CLUSTER OF ISA MEMBER COUNTRIES IN VARIOUS REGIONS**

ISA secretariat has been making concerted and continuous efforts to bring out various Programmes and innovative Practices to enable Member countries to promote Solar applications in large scale. Sharing of Solar Power by Member Countries is one such possibility to promote use of Solar Power in large scale. This approach can facilitate sharing of Solar resources among member Countries.

An Agreement Format has been developed for sharing of Solar Power among ISA member Countries. Under this approach, group of ISA Member countries in various regions depending on logistics etc. can enter into agreement for cross boarder dispatch of Solar Power. This will enable Countries who have surplus Solar power capacity or having large resources like land, Solar irradiation etc., to Jointly Generate, share/ sell Solar Power to Countries having less resources.

### **AGREEMENT FORMAT FOR SHARING/TRADING OF SOLAR POWER AMONG GROUPS/CLUSTER OF ISA MEMBER COUNTRIES IN VARIOUS REGIONS**

**The International Solar Alliance** (hereinafter referred to as “ISA”) a treaty based international inter-governmental organization was launched on 30 November 2015, in Paris, France, with Headquarters in India;

**Recognizing that 74 Countries** so far have signed ISA Framework Agreement and 52 Countries have ratified the ISA Framework Agreement as on 12 April 2019 as shared by the Depository with ISA Secretariat, the list placed at Annexure-A;

**Recalling** the Paris Declaration on the International Solar Alliance of 30 November 2015 and the shared ambition of Member Countries to undertake joint efforts for massive deployment of solar energy;

**Acknowledging** that specific and common obstacles stand in the way of rapid and massive scale-up of solar energy in countries and affirming that these obstacles can be addressed if solar resource rich countries act in a coordinated manner, with strong political impulse and resolve, and that better harmonizing and aggregating the demand for inter alia solar finance, technologies, innovation or capacity building, across countries

will provide a strong lever to lower costs, increase quality, and bring reliable and affordable solar energy within the reach of all;

**Recognizing** the importance of electricity and growing proportion of solar power in the energy-mix in promoting economic growth and improving the quality of life;

**Recognizing** that many of the Member Countries are rich in resources like land, solar insolation etc., which can be utilized for setting up of large scale Solar Projects for the benefits of other Member Countries as well through cross border sharing/trading of Solar Power;

**Realizing** the common benefits of cross border electricity sharing/ trading including potential for bulk solar power generation, transmission, energy storage, among the ISA Member Countries leading to development and optimal utilization of cross-border, regional and inter-regional transmission interconnections besides sharing and economic utilization of resources and Solar Power sharing arising from diversity in demand and seasonal variations;

**Convinced** of the need of increasing economic cooperation and creating new and innovative opportunities in the Solar energy sector;

**Recognizing** that solar energy provides solar resource rich countries with an unprecedented opportunity to collaborate and other member countries to bring prosperity, energy security and sustainable development to their people;

**Now, therefore** in the spirit of solidarity and mutual cooperation, and subject to the laws, regulations and international obligations of the Member Countries, wherever applicable, have agreed as follows:

## **Article 1 Definitions Buying and Selling Entities**

Buying and Selling Entities means any authorized public or private Solar power producer, trading company, or any other institution established and registered under the laws of any one of the Member Countries having permission of buying and selling of solar power within and outside the country in which it is registered.

## **Article 2 Objective**

Groups/Cluster of ISA Member Countries may enable sharing/trading Solar Power on voluntary basis subject to the laws, rules and regulations of the respective Member Countries and based on bilateral /multi-lateral/ agreements between the concerned Countries.

### **Article 3 Scope**

Groups/Cluster of ISA Member Countries may enable Buying and Selling Entities to negotiate the terms, conditions, payment security mechanism and tenure of Solar power sharing/ trading under the Government regulatory mechanisms of the concerned countries.

### **Article 4 Duties & Taxes**

Groups/Cluster of ISA Member Countries may work towards exempting from export-import/duty/levies/fees, etc. for cross-border, regional and inter-regional sharing/ trading and exchange of solar power between Buying and Selling Entities.

### **Article 5 Data Updating and Sharing**

Groups/Cluster of ISA Member Countries may share and update technical data and information on the Solar Energy sector in an agreed template.

### **Article 6 Promoting Competition**

Groups/Cluster of ISA Member Countries shall encourage the process of opening up of Solar Power sector guided by respective national priorities with the aim of promoting competition.

### **Article 7 Planning of Cross Border Interconnections**

Groups/Cluster of ISA Member Countries may enable the Transmission Planning Agencies of the Governments to plan the cross-border, regional and inter-regional Power grid interconnections through bilateral/multi-lateral agreement between the concerned Countries based on the needs of the solar power sharing/ trading in the foreseeable future through studies and sharing technical information required for the same.

### **Article 8 Build, Operate and Maintain**

Groups/Cluster of ISA Member Countries may enable the respective transmission agencies to build, own, operate and maintain the transmission system of cross-border,

regional and inter-regional interconnection falling within respective national boundaries and/or interconnected at mutually agreed locations to enable sharing/trading of solar power.

### **Article 9 Transmission Service Agreements**

Groups/Cluster of ISA Member Countries may facilitate authorized Buying and Selling Entities to enter into transmission service agreements with the transmission service providers for the purpose of cross-border, regional and inter-regional solar power sharing/trading.

### **Article 10 Electricity Grid Protection System**

Groups/Cluster of ISA Member Countries shall enable joint development of coordinated network protection systems incidental to the cross-border, regional and inter-regional interconnection to ensure reliability and security of the grids of the Member Countries.

### **Article 11 System Operation and Settlement Mechanism**

Groups/Cluster of ISA Member Countries shall enable the national, regional and inter-regional grid operators to jointly develop coordinated procedures such as Grid Code for the secure and reliable operation of the inter-connected grids and to prepare scheduling, dispatch, energy accounting and settlement procedures for cross border, regional and inter-regional Solar power sharing/trading.

### **Article 12 Transmission Access**

Groups/Cluster of ISA Member Countries shall, for the purpose of solar power sharing/trading, enable non-discriminatory access to the respective cross-border, regional and inter-regional transmission grids as per the applicable laws, rules, regulations and applicable inter-governmental bilateral/multi-lateral trade agreements.

### **Article 13 Facilitating Buying and Selling Entities**

Groups/Cluster of ISA Member Countries shall enable Buying and Selling Entities to engage in cross-border, regional and inter-regional solar power sharing/ trading subject to the laws and regulations of the concerned Member Countries.

**Article 14**  
**Knowledge Sharing and Joint Research in Solar Energy Sector**

Groups/Cluster of ISA Member Countries may enable and encourage knowledge sharing and joint research including exchange of experts and professionals related to, inter alia, solar power generation, transmission, energy storage, and sharing/trading besides development and grid integration of solar energy resources.

**Article 15**  
**Regulatory Mechanisms**

Groups/Cluster of ISA Member Countries shall develop the structure, functions and institutional mechanisms to resolve regulatory issues related to Solar Power sharing/ Trading.

**Article 16**  
**Dispute Settlement**

Any dispute arising out of interpretation and/or implementation of this Agreement shall be resolved amicably among the Member Countries signatories to this agreement.

**Article 17**  
**Withdrawal**

Any Member Country may withdraw from this Agreement at any time after its entry into force. Such withdrawal shall be effective six months from the day on which written notice thereof is received from the ISA Secretariat, the depository of this Agreement.

The rights and obligations of a Member Country which has withdrawn from this Agreement shall cease to apply as of that effective date with exception that ongoing proceedings at the time of termination shall nonetheless be completed in accordance with the provisions of this Agreement.

**Article 18**  
**Entry into Force**

This Agreement shall enter into force on a date jointly decided by the Member Countries signatories to this agreement and upon issuance of a notification thereof by ISA secretariat.

**Article 19  
Amendment**

Any amendment to this Agreement may be submitted by a Member Country to the ISA Secretariat and recommended by consensus to the Meeting of ISA Energy Ministers. Such amendment(s) will be effective upon deposit of the instruments of acceptance with the Director General of ISA.

**Article 20  
Review**

The Member Countries shall meet in order to review this Agreement on request or at the end of five years from the date of its entry into force, unless they notify one another in writing that no such review is necessary.

**IN WITNESS WHEREOF**, the undersigned being duly authorized thereto by their respective Member Countries have signed this Agreement for sharing/trading of solar power.

Done at ----- (Insert name of the place) , on this ...day of ----- (Insert month) ... (Insert year).

(Name & Address of the Signatory)

(Name & Address of the Signatory)

(Name & Address of the Signatory)

(Name & Address of the Signatory)