



# REPUBLIC OF LIBERIA

THE PRESIDENT

EXECUTIVE ORDER NO. 107

## SUSPENDING TARIFFS ON OFF-GRID SOLAR RENEWABLE ENERGY PRODUCTS

**WHEREAS**, to continue the development of the renewable energy sector in Liberia, Government has reviewed the tariffs imposed on plug and play solar lighting and electrification systems, integral parts of solar standalone photovoltaic systems, efficient appliances with all accessories (panels, batteries, control units, etc) used for stimulation of economic development in rural areas, other components needed for system integrity, and other systems directly related to renewable energy development;

**WHEREAS**, Government recognizes the increased need to stimulate activities in the renewable energy sector after years of war, and also recognizes the need to provide incentives under the Economy and Jobs pillar of the Pro-poor Agenda for Prosperity and Development by encouraging private sector investment in the procurement of essential off-grid solar lighting appliances, equipment and system components directly related to renewable energy development with the view, inter alia, to increase access to clean, affordable and quality energy services; and

**WHEREAS**, in the exercise of Executive power vested in the President by the Constitution, the President may issue Executive Orders in the public interest, either to meet emergencies or to correct particular situations which cannot await lengthy legislative processes;

**NOW THEREFORE**, the Government of Liberia hereby suspends import tariffs on the types of off-grid solar lighting appliances, equipment and system components and other systems directly related to renewable energy development classified under the Tariff Numbers of the Liberia Revenue Code attached to this Executive Order. Importers shall pay only the Custom User Fees (CUF) and the ECOWAS Trade Levy (ETL), where applicable.

Those benefiting from this Executive Order must be directly involved in the renewable energy sector. Only products compliant to standards recognized by the National Standards Laboratory (NSL) are eligible for the suspension of import tariffs.

This Executive Order shall take immediate effect.

GIVEN UNDER MY HAND AND SEAL OF THE  
REPUBLIC OF LIBERIA, THIS 27<sup>th</sup> DAY OF  
APRIL 2022.

A handwritten signature in green ink, appearing to read 'George M. Weah, Sr.', written over a horizontal line.

George M. Weah, Sr.  
PRESIDENT  
REPUBLIC OF LIBERIA



## LIST OF ITEMS PROPOSED FOR DUTY WAIVER

### Category 1: Plug & Play Solar Lighting and Electrification System

<b>Complete Solar Lighting and Electrification System</b>			
Product	HS Code	Product Description	Justification for Duty Waiver
Solar Light & Lantern	940540.00	Portable solar powered light whether integrated or external solar panel and/or storage unit and whether with or without phone charging function. In case of separate storage unit or panel, includes wires and plugs. Includes all housing, wiring, switches, and adaptors for phone charging. Storage unit is charged through solar panel.	Provides minimum light and often phone charging; entry level energy access.
Solar Home System	940540.00	System with external storage unit and panel with several appliances coming without AC/ DC adapter to be charged/ run by the solar panel through storage unit. Includes all housing, wiring, and switches and a control unit. Components are specifically designed to work together as one solar home system to be sold to customers as one product, whether they come packaged in one box or in separate boxes and assembled in-country.	Provides higher level of energy access, to run appliances beyond lighting;

### Category 2: Integral Parts of component based solar photovoltaic System and / or Solar Lighting Product

<b>Integral Parts of Component based solar Photovoltaic System, a Basic Solar Home System and /or Solar Lighting Product</b>			
Product	HS Code	Product Description	Justification for Duty Waiver
Solar Module	854140.00	Photosensitive semiconductor devices, incl. photovoltaic cells, whether or not assembled in modules or made up into panels.	Generation of electricity is paramount.
Solar Battery (PbAc, AGM, Gel) Li-ion Solar battery	850780/850720/ 850660.00	Rechargeable deep cycle batteries, whether lithium, lead acid, lithium iron phosphate, or similar.	Storage of generated electricity is paramount.

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DC/AC converter or inverter	854000/85401010	Electrical transformers, static converters (for example, rectifiers) and inductors.	Essential part to allow AC equipment work with solar.
Solar Charge Controller	850680	Integral component part of a solar electric system, which regulates the amount of electric current added to or drawn from the rechargeable battery. (Overcharge and undercharge protection).	Essential component for solar electric systems which protects batteries and prolongs system life.

**Integral Parts of Component based solar Photovoltaic System, a Basic Solar Home System and /or Solar Lighting Product**

Product	HS Code	Product Description	Justification for Duty Waiver
Control Unit	853710.00/ 8541.40.00	Boards, cabinets and similar combinations of apparatus for electric control or the distribution of electricity, for a voltage $\leq$ 1,000 V. Controls circuit with battery for remote monitoring and control of the system. Once customer paid regular fee, control unit unlocks flow of electricity whether remotely or through manual entering of a code by customer via a touchpad or through a remote control.	Key for any SHS that uses mobile payment/ for system monitoring and maintenance Control unit is elementary to the pay as you go business models which provides financing mechanisms for off-grid households to afford electricity access.
Charge Control Unit	850680	Units that combine the solar charge controller and the control unit.	Same as above but combined into one component
Solar LED light	940540.00	DC Solar LED lights to be powered from solar, including all housing, wiring, switches, and all parts used to focus and amplify the usable light	Key spare part for all systems.

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Solar LED sensor light	9405.40.00	DC LED lights powered from solar sensitive to motion, including all housing, wiring, and switches	Used for outdoor lighting; light only turns on after dark when someone approaches it. Helps to create safety and security in an energy efficient manner
Solar Torches	8513.10.90	Portable electric lamps with their own rechargeable battery storage, designed to be charged by an integrated or separate solar panel	Portable light which can be used when leaving the house during night times in rural areas with no street lighting. It is also used by women to cook outside.

**Integral Parts of Component based solar Photovoltaic System, a Basic Solar Home System and /or Solar Lighting Product**

Product	HS Code	Product Description	Justification for Duty Waiver
Solar Radio	852799.00/ 852719.00	Reception apparatus for radio-telephony radio-telegraphy or radio-broad-casting, whether or not combined, in the same housing, with sound recording or reproducing apparatus, with their own rechargeable battery storage, designed to be charged by an integrated or separate solar panel and coming without a AC/ DC adapter	Rechargeable appliance designed to be powered by solar, which gives households access to information; key to participate in society.  Reduces reliance on radios which function on disposable batteries which are cumulatively expensive and which pollute the environment.

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Solar TV	852872.00	TVs designed for the use for low-voltage (usually 12V) and DC power that are extremely energy efficient and consume a maximum of 0.014W/cm <sup>2</sup> for TVs with a display smaller than 22" and a maximum of 0.011W/cm <sup>2</sup> for those with a display of 22" and above.	High aspiration of rural households: increased quality of live, better access to information and clear developmental benefits (e.g. family planning etc.)
Solar powered refrigeration unit	841829.00	DC refrigerators, non-electrical, absorption-type to be powered by solar and coming without an AC/ DC adaptor.	Used by institutions such as hospitals, households, and small business; key for vaccines and to keep groceries and drinks fresh as well as keep agricultural and fisheries products
Solar Fan	841459.00	Fans (excl. table, floor, wall, window, ceiling or roof fans, with a self-contained electric motor of an output <= 125 W), running on DC and powered by solar and coming without AC/ DC adapter	In hot areas, fan improves living conditions and quality of live drastically; often used in bars and small restaurants to ensure customers are comfortable.

**Integral Parts of Component based solar Photovoltaic System, a Basic Solar Home System and /or Solar Lighting Product**

Product	HS Code	Product Description	Justification for Duty Waiver
Solar water heater	84199000	DC water heating systems and accessories	Used by institutions such as hospitals, households, and small business including hotels;

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Category 3: Efficient Appliances Used for Income Generation of Small Business

Efficient Appliances Used for Income Generation of small Business			
Product	HS Code	Product Description	Justification for Duty Waiver
Solar Water Pump or Irrigation Pumps with all accessories (panels, batteries, control unit, etc.)	841381.00 8413.91.00	Electrical DC Pumps for liquids, - both submersible and surface pumps -, solar powered, including sprinklers  Control unit (part of the pumping system)	Increases the yield of agricultural products and promotes income generation, already import tariff exempt
Solar phone charging unit	9405.50.00 / 850440.00	Charges multiple mobile phones at the same time from a battery that is charged by solar.	USB outputs allow to charge phones simultaneously; phone charging is offered as a service to clients and generates income.
Solar hair cutters Solar hair clippers	8510.10.00 8510.20.00	Shavers, hair clippers and hair-removing appliances, with self-contained electric motor that runs on a rechargeable battery that is charged through solar without any AC charger.	Income generation for barber shops which can continue to operate during power cuts/ can operate in places where access to the grid is not available.
Solar hair straighteners	8516.32.00	Other hair dressing apparatus, whether with self-contained storage unit, charged or powered from solar without any AC charger.	Income generation for hairdresser shops which can continue to operate during power cuts/ can operate in places where access to the grid is not available.
Solar grain miller	8437.10.00	Solar powered equipment to grind grains, cereals, cassava, etc. with a self-contained electric motor of an output <= 125 W), running on DC and coming without AC/DC adapter	Income generation, reduces the consumption of fuel, drives economic development among women groups

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**Efficient Appliances Used for Income Generation of small Business**

Product	HS Code	Product Description	Justification for Duty Waiver
Solar dryer	84199000	Installation used to dry agricultural products, powered by solar	Add value on agricultural products, foodstuff conservation
Solar egg incubators	N.A	Solar powered egg incubators to provide chick-hatching solutions to farmers especially in rural areas where there is no electricity. The incubators ensure that eggs hatch in bulk as opposed to the natural process the farmers currently rely on	The technology boosts poultry production and in addition provides a source of income to the communities - the youth and women thus empowering them
Solar sewing machines	N.A	Solar DC powered equipment to help in tailoring workshop in off-grid and weak grid settlements	The technology helps introduce efficient electric sewing machines in rural settlement specially for women and provides additional income.
Solar iron	N.A	Solar powered iron DC 12V to help tailors iron clothes in off-grid and weak grid settlements	The solar iron replaces charcoal powered irons and preserve forests.
Solar cold rooms	94069010	Solar powered cold chambers with sizes varying from few m <sup>3</sup> to hundreds m <sup>3</sup>	The cold rooms are usually for large industrial units or as storage depot of fresh products for their conservation in large quantities. This could provide interesting revenues for business, farmers, women.
Solar cooker	8516.60.00	An apparatus for cooking food using the energy of direct sunlight, typically by means of reflective panels that concentrate the light on to a dark-coloured pot in an insulated box	Reduces charcoal and fire-wood use and preserve forests

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Category 4: Other Parts Needed for System Integrity

Other Parts Needed for System Integrity			
Product	HS Code	Product Description	Justification for Duty Waiver
Connectors	853600.00	Electrical apparatus for switching or protecting electrical circuits, or for making connections to or in electrical circuits (for example, switches, relays, fuses, surge suppressors, plugs, sockets, lamp-holders, junction boxes), for < 1kV	Integral part of the system
Cables	854449.00	Electric conductors, for a voltage <= 80 V, insulated, whether or not fitted with connectors	Integral part of the system
Switches	853650.00	Switches for a voltage <= 1.000 V (excl. relays and automatic circuit breakers)	Integral part of the system
Phone Charging Adapters	8504.90.00/ 8471.80.10	In various forms to charge different brands of mobile phones.	Important to charge phones from the system
Adapters	85444219000	Adapter that connects appliances with the solar controller unit or used for other purposes in conjunction with the Solar Home System	Integral part of the system

Improved cooking stoves

Biogas energy systems (power and cooking) including accessories



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