

No. 2023/QĐ-BCT

Hà Nội, 05 July 2019

**DECISION**  
**on the Approval of**  
**Rooftop Solar PV Promotion Program**

**THE MINISTER OF THE MINISTRY OF INDUSTRY AND TRADE**

*Pursuant to the Government's Decree No. 98/2017/NĐ-CP dated 18 August 2017 on functions, tasks, jurisdiction and organizational structure of the Ministry of Industry and Trade*

*Pursuant to the Prime Minister's Decision No. 2068/QĐ-TTg dated 25 November 2015 on the Approval of the Viet Nam's Renewable Energy Development Strategy to 2030, vision to 2050*

*Pursuant to MOIT's Decision 3816/QĐ-BCT dated 02 October 2017 on the functions, tasks, jurisdiction and organizational structure of the Electricity and Renewable Energy Authority*

*At the proposal of the Director General of the Electricity and Renewable Energy Authority*

**DECIDES:**

**Article 1.** Approval of the Program "Rooftop Solar PV Promotion Program" (henceforth known as the RTS Program), includes these main contents

**1. Name of the Program:** Rooftop Solar PV Promotion Program

**2. Objectives of the RTS Program**

- a. Overall objective: to implement the Viet Nam's Renewable Energy Development Strategy to 2030, vision to 2050 via solutions on the development of the market for rooftop solar (RTS) technology.
- b. Specific objective: At the end of 2025, 100,000 (one hundred thousand) RTS systems (or the equivalent of 1,000 MWp) are installed and in operation in the country

**3. Program Components:**

3.1 Develop and complete policies, regulations relevant to the support of the development of rooftop solar with the orientation to shift to market conditions.

The component includes the following groups of activities:

- a) Research and evaluate the RTS potential and the impact upon the distribution grid
- b) Research and propose mechanisms, policies, and regulations to promote the development of RTS

3.2 Standards, inspection, and testing

The component includes the following groups of activities:

- a) Research and develop standards, codes, and guidelines for technical equipment, installation, connection to the grid and operation of the RTS system;

- b) Research and development the procedures for RTS equipment quality assurance; implement the pilot and improve the capacity of the inspection agencies, and management agencies.

### 3.3 Promote market conditions and pilot support program

The component includes the following groups of activities:

- a) Research, analyze, and examine the market, identify demand and the roles of relevant stakeholders (supplier of equipment and service, investors and project developers, rooftop owners, and electricity buyers) and identify the target groups and the sources of funding and technical support.
- b) Implement pilot support programs and projects on investment and technical assistance.

### 3.4 RTS Certification Program

The component includes the following groups of activities:

- a) Evaluate the demand and develop an action plan for capacity building, training for all levels, all sectors, investors, service providers, installers, operators and relevant organizations and individuals;
- b) Implement RTS Training and Certification program (RTS Certificate) for equipment providers, consulting service providers; organizations and individuals that install RTS systems participating in the RTS Program;
- c) Develop and implement a capacity building plan for universities, technical and vocational training centers.

### 3.5 Develop the information management system and communication plan

The component includes the following groups of activities:

- a) Develop and maintain an online database on solar power and RTS in order to support the management, planning, monitoring, report and development of the market.
- b) Develop strategy, design and implement communication activities and disseminate information on RTS (website, television, conference, workshop, forum...).
- c) Organize conference and forum to exchange and disseminate experience and recommendations on the development process of policies and replication of development models.

Specific activities of the RTS Program can be found in Annex I

## 4. Implementation timeframe: 2019 to 2023

## 5. Resource mobilization for the RTS Program

- Integrate RTS Program's activities with technical assistance projects, ODA projects, and activities within the responsibilities of the MOIT.
- Resources from local authorities:
- Support from donors, companies, organization in accordance with current regulations.

## 6. Implementation organization:

- a) Electricity and Renewable Energy Authority:

- Lead and coordinate with relevant agencies, People's Committee of provinces and central-administrated cities and EVN to implement the RTS Program;
  - Establish the Project Steering Committee which includes the leaders of relevant agencies of MOIT, leaders of EVN, and representatives from donors for the cooperation to create an annual plan and the implementation of RTS Program's activities. A Group of Experts which includes the representatives from relevant agencies, representatives from donors and independent experts will support the Project Steering Committee. The costs for human resources and operation of the Group of Experts will be mobilized from the resources of the donors.
  - Organize periodical, mid-term, and final evaluation of the RTS Program, promote the cooperation between relevant stakeholders to ensure the implementation of the RTS Program's targets and to achieve expected outcomes.
  - Report periodically to the MOIT on the progress and the results of the RTS Program and recommendation solutions.
- b) People's Committees of Provinces and central-administrated cities
- Coordinate with the MOIT in the evaluation of potential activities and identifications of areas with potential for the development RTS in accordance with plans for urban developments, industrial and economic zones.
  - have a mechanism to encourage the development on administrative, commercials, services, and office buildings that have RTS system within jurisdiction.
- c) EVN
- Implement activities to support RTS in accordance with function and jurisdiction.
  - Instruct electricity agencies to connect RTS systems to the grid in a fast, timely manner while ensuring compliance with regulations and operational safety.
  - Develop and implement information management system for solar power and RTS in the country.

**Article 2.** This Decision is in effect from the signing date.

**Article 3.** Chief of the Office of the Ministry, Director General of the Finance and Business Innovation Department, Director General of the Electricity and Renewable Energy Authority, Director of the EVN and Heads of relevant agencies shall be responsible for implementing this Decision./.

Recipients:

- As Article 3;
- Archives: Filing, EREA

**Minister**

**Trần Tuấn Anh**

## ANNEX 1: PROGRAM COMPONENTS AND MAIN ACTIVITIES

No.	Targets and main activities	2019-2021	2021-2023	Potential Resources
<b>1</b>	<b>Develop and supplement policies, regulations to support the development of RTS with the orientation to ready to shift to market conditions</b>			
1.1.	Research and evaluate RTS potential in large cities; assess the impact of the RTS System on the distribution grid in large cities, urban areas, areas with high population	x	x	MOIT, WB, EU and donors (VEPG)
1.2.	Research and propose the issuance of and/or amendments to Decision(s) and Circular(s) on support mechanisms (FIT), technical solutions and cooperation, main support mechanisms	x	x	MOIT, WB, GIZ, USAID, VEPG
1.3.	Research and propose RTS targets to the year 2025 for the RTS Program and integrated into the PDP8	x		MOIT, WB, GIZ, USAID
1.4.	Organize thematic conference, consultation workshop, and forum to share knowledge and experience.	x	x	MOIT, VEPG
<b>2</b>	<b>Standards, Inspection, and Testing</b>			
<b>2.1</b>	<b>Develop standards and technical guidelines</b>			
2.1.1	Coordinate with EVN and relevant stakeholders to develop, and submit for approval regulations on grid connection (Grid code)	x		MOIT, EVN, GIZ
2.1.2	Review, develop and publish Technical Standards Guidelines, quality standards for RTS equipment, installation and operation	x		MOIT, EVN, GIZ in coordination with relevant ministries
2.1.3	Guidelines on the installation and operation of Solar PV system and RTS system (low voltage grid)	x		MOIT, EVN, GIZ
2.1.4	Develop Investment guidelines for the Rooftop Solar for Commercial and Industrial Buildings	x		MOIT, EVN, GIZ
2.1.5	Develop and the Standardized PPA for the models of development for RTS	x		MOIT, EVN, GIZ
2.1.6	Organize consultation workshops and conferences to exchange experience and disseminate knowledge	x	x	MOIT, VEPG, EU
<b>2.2</b>	<b>Inspection and testing program</b>			

2.2.1	Research and develop quality assurance procedures for RTS equipment, develop inspection target and materials inspection; request and propose agencies to carry out inspection	x	x	MOIT, VEPG, EU in coordination with relevant ministries
2.2.2	Develop and implement the pilot for inspection procedures and efficiency labeling for PV panels within the framework of the RTS Program	x	x	MOIT, VEPG, EU in coordination with relevant ministries
2.2.3	Build the capacity of the inspection units and management agencies.	x	x	MOIT, VEPG, EU in coordination with relevant ministries
<b>3</b>	<b>Promote market conditions and Pilot Support Program</b>			
<b>3.1</b>	<b>Research and analyze market conditions</b>			
3.1.1.	Research and analyze the market conditions including demand assessment, identification of stakeholders, identification of the role of relevant stakeholders, definition of appropriate scale for RTS projects, then identification of target group(s) and potential sources of financial and technical support.	x		MOIT, WB, GIZ, USAID, EU, VEPG
3.1.2	Evaluate the market (the current status of the RTS development, RTS equipment and system market, services provider and equipment supplier, investors and developers, rooftop owners, buyers)	x	x	MOIT, EVN, GIZ, USAID, EU, VEPG
<b>3.2</b>	<b>Pilot Support Program</b>			
3.2.1	Viet Nam Renewable Energy Development Program (GET-FIT) 2017 -2027 (support for the added costs for solar power projects and RTS with the total capacity of the program up to 200 MW)	x	x	MOIT, EVN, KfW, EU, VEPG
3.2.2	Financial support, technical assistance for the consulting and service agencies and RTS system investors within the RTS Program.	x	x	
<b>4.</b>	<b>RTS Certification Program</b>			
4.1	Evaluate implementation capacity of stakeholders, develop capacity building plan with modules: consulting, installation and maintenance of the RTS systems and business models	x	x	MOIT, GIZ, VEPG

4.2	Train and issue RTS Certificates for organizations, individuals in consulting and installing RTS systems	x	x	MOIT, GIZ, EU
4.3	Train and issue RTS Certificates on monitoring, measuring and calculating solar power efficiency on rooftops	x	x	MOIT, GIZ, EU
4.4	Develop and implement capacity building plan for universities, technical and vocational schools which train technicians and technical officials (including training-of-trainers, training for students, and support the development of the programs and official training curriculum, short training)	x	x	MOIT, EU, VEPG
4.5	Organize training/ workshop/ conference for the exchange of experience on the technical topics and financial risk reduction topics	x	x	MOIT, VEPG
<b>5</b>	<b>Information management and Communication Strategy</b>			
5.1	Develop and maintain database/ online-platform for Solar PV and RTS (PV capacity, location, date of installation, developers...) to support the monitoring and reporting, report on the contribution to the Nationally Determined Contribution (NDC), grid planning and development of the market	x	x	MOIT, EVN, EU, VEPG
5.2	Develop and implement communication plan and information sharing (development of the website, creation of advisement poster, videos, organize workshops/information sharing sessions, forum)	x	x	MOIT, USAID, EU
5.3	Design activities for different target groups (I.E: the public, S&E, policy makers, relevant authorities)	x	x	MOIT, USAID
5.4	Organize workshop and forum to disseminate lessons learned and recommendation for policy development and replication	x	x	MOIT, VEPG
5.5	Organize yearly RTS campaign, focus seminar, public exhibition activities, leverage the media and social media to promote the effects of RTS program	x	x	MOIT, EU

<b>6</b>	<b>Organize the implementation and evaluation of the impact of the RTS Program</b>			
6.1	Establish the Program Coordination Committee	x		MOIT
6.2	Design and implement the M&E system and report system on all levels and agencies	x	x	MOIT, EU, VEPG
6.3	Periodical evaluation and final evaluation, a summary of lesson learned and recommendations	x	x	MOIT, EU, VEPG
6.4	Organize Workshop, lessons learned, and forums	x	x	

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