

Alexandru SOARE

From: Niels Vink [Niels.Vink@remeha.nl]
Sent: Monday, November 14, 2016 11:47 AM
To: coduri_acces_retea@anre.ro
Subject: Emmerging technology standard application

81643
16 11 2016

Dear sir/madam,

Find attached the application form to to apply for the Emerging Technology Classification in the context of the Network Code on Requirements for Generators (NC RfG).

Also attached:

EC type examination certificate (CE)

Installation and service manual eVita.

Please could you send us a confirmation of our application and thus the confirmation that we are in the process to apply for the Emerging technology.

Hope to hear from you soon.

With kind regards,

Met vriendelijke groet / Best Regards,

Niels Vink
Accountmanager & jr. Productmanager Export | Remeha B.V.

Remeha

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11/16/2016

**Application model for classification of power-generating modules
as emerging technologies**

1. Contact data		
<u>Manufacturer name</u> Remeha B.V.		<u>Date of application (dd/mm/yyyy)</u> 17/11/16
<u>Manufacturer address</u> Marchantstraat 55 – 7332 AZ Apeldoorn Postbus 31 – 7300 AA Apeldoorn		
<u>Contact Person:</u>		
<u>No.1 phone</u> +31 (0) 55 549 6423	<u>No.2 phone</u> +31 (0) 55 549 6219	<u>E-mail address</u> Niels.vink@remeha.nl
2. Description of power-generating module technology		
<u>Technology type used by power-generating module</u> Remeha eVita range for CHP		
<u>Description of power-generating module technology</u> <i>(including innovative elements and if possible an evaluation of the possibility of applying the Regulation (UE) 2016/631 requirements on the power-generating technology and an assessment of implementation costs)</i> Domestic micro-CHP using Linear Free Piston Stirling Engine Technology from Microgen Engine Corporation		
<u>Identification number of the power-generating module using technology</u> <i>(to be specified: if any, the power-generating module identification number in the manufacturer's catalogue or given by the manufacturer)</i> Remeha eVita 28c Stirling Remeha eVita 25s Stirling		

3. Criteria provement of power-gerating module as emerging technology
0.8 kW ≤ Maximum capacity of power-generating module which are using the

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proposed technology like emerging technology < 1 MW

(PGM maximum capacity must be specified)

Max electrical output 1kWe or 2kWe.

Note: the current commercial eVita delivers an output of 1 kWe and will be configured to deliver range of outputs, up to 2 kWe.

It is commercially available power-generating module technology?

(to be provided: data/information/proof that eligible technology is present on the market and is marketable)

The following documents are enclosed as evidence with this application;

Installation and service manual with CE certificates.

Communication the accumulated sales of the power-generating module within Continental Europe synchronous area at the time of application, expressed in MW
(the accumulated sales of the power-generating module technology within a synchronous area at the time of application for classification as an emerging technology do not exceed 25% of the maximum level of cumulative maximum capacity, i.e. 97.775 MW, and has to be less than 9.4105MW, i.e. the maximum level for Romania)

2,2 MW 1kW Evita Stirling in Europe

4. Establishment of technology impact

(to be specified: information regarding the environmental impact of the power-generating module technology categorised as emerging technology)

Other technologies in this market utilise inverter technology and have the ability to meet the requirement of the Network Code with software setting changes as opposed to a fundamental design change that would be required for Stirling Engine technology. Without emerging technology classification Stirling Engine CHP would be at a disadvantage with the competition.

These low output domestic CHP products are not concentrated in only one geographical area but spread out across the whole of the UK. With the limited capacity of 0.1 % they do not present any threat to grid security.

The reaction on LFSM-O with randomized disconnection will progressively turn off domestic CHP units and contribute to grid stability due to its fast reaction time.

Domestic CHP appliances mainly operate during peak household *power demand* periods (in the winter where at least PV does not produce very much of active power), thereby enhancing grid stability and security.

Importantly, micro-CHP installations contribute to Green House Gas emission

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reductions and energy efficiency improvements in the built environment.

5. Additional information

*Any additional information not requested above and deemed useful to support the application
for classification of power-generating modules as emerging technologies*

NOTE : ANRE reserves the right to request additional information from the applicant where it considers the information provided is insufficient to reach a decision regarding the application.

