Workshop on photovoltaics, grid Integration and funding of the next wave of PV expansion in Cyprus, 13 December 2016

Cyprus PV Market

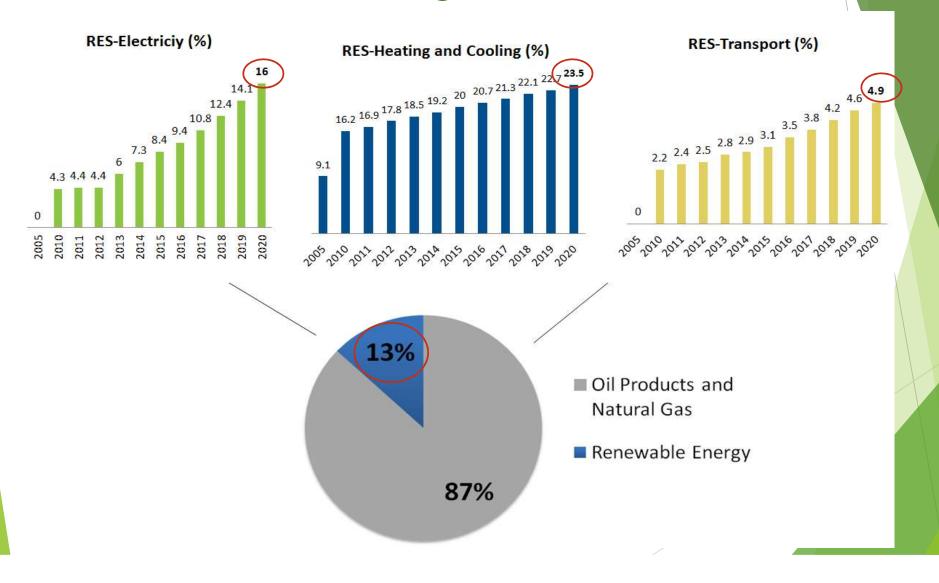
Anthi Charalambous
Head of Energy & Environment Division
Cyprus Federation of Employers & Industrialists
13 December 2016





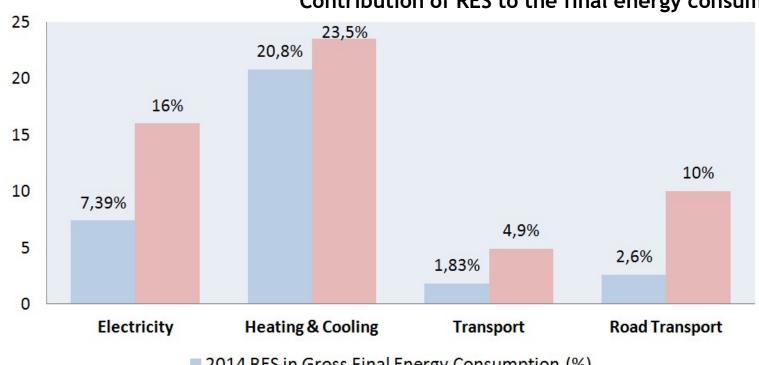


2020 RES national targets



RES progress towards 2020 targets

Contribution of RES to the final energy consumption was 8,9% in 2015



■ 2014 RES in Gross Final Energy Consumption (%)

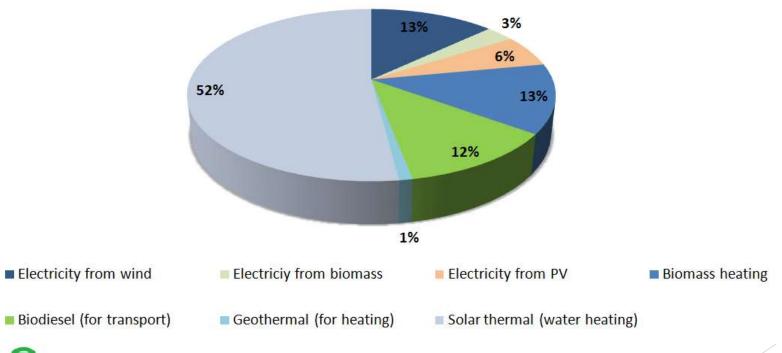
■ 2020 Indicative targets set in NREAP (%)



Source: Energy Service

RES progress towards 2020 targets

Contribution of RES to the final energy consumption was 8,9%

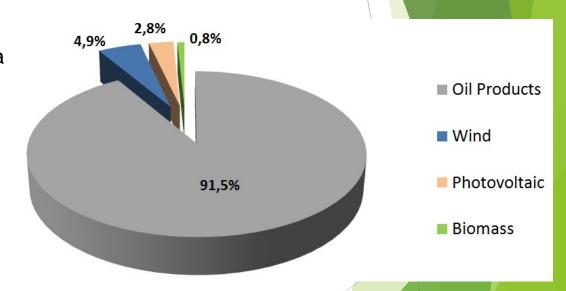




Source: Energy Service

Share of RES-e in the total electricity consumption in Cyprus in 2015

- Until the end of 2015, the contribution of Renewable Energy Sources for electricity generation in Cyprus amounted in the 8,5% of tota electricity consumption.
- The penetration of the RES into Cyprus Electrical System was mainly produced by the **Wind parks** (155,1 MW installed capacity) and from the **Photovoltaic systems** (85 MW installed capacity)

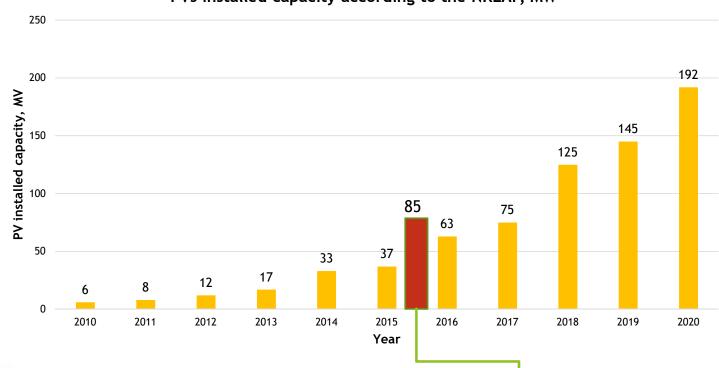




Source: TSO Cyprus

Cyprus 2020 PV Targets

PVs installed capacity according to the NREAP, MW





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Current situation

Cyprus PV Status

- In Cyprus, the first Photovoltaic System with installed capacity 4,84 kW grid connected was installed on 17/02/2005. The total installed capacity of photovoltaic systems **connected** with the distribution system of EAC was **85** MW in September 2016.
- Feed in tariffs applied in the past through support schemes
- Net metering: The scheme started in 2013 and is planned to continue at least until Cyprus reaches the National targets of 2020. Until September 2016 installed 8.957 photovoltaic systems with total capacity of 27,5MW.
- Self-production: The scheme was launched in 2013 and is planned to continue at least until you achieve National targets for RES 2020. Until September 2016 installed 78 photovoltaic systems in various premises with total capacity of 3,6 MW.



Current PV Support Schemes (1)

- Category A: Photovoltaic systems with capacity up to 5kW, connected with the grid through "Net- Metering" Scheme.
- PV systems for residential use: Houses that are used as permanent residences by vulnerable consumers (subsidy of €900 /installed kW). The vulnerable consumers can get the subsidy only for the first 3kW installed. Total Installed Capacity: 1,2 MW.
- ▶ PV systems for residential use: Houses that are used as permanent residences by all residential consumers (non-vulnerable, without subsidy). Total Installed Capacity: 8,8 MW.
- Systems installed in non-residential buildings (without subsidy). Total Installed Capacity: 10 MW.



Current PV Support Schemes (2)

- Category B: Photovoltaic systems with the method of selfconsumption, available for consumers with commercial or industrial electricity tariff (commercial and industrial buildings, public buildings, etc).
- ▶ 1) This Category B concerns PV systems installed in commercial or industrial buildings (commercial, industrial, public buildings, army buildings, schools etc) in order to produce electricity for their own use (self-production). The capacity of each installed PV system can be ranged from 10 kW up to 2 MW. Total installed capacity 3,6 MW.



Current PV Support Schemes (3)

- RES installations in the Agriculture sector
- The Ministry of Agriculture, Rural Development and Environment has announced a new support scheme for the overall sustainability of the agriculture sector. The Agriculture scheme was valid from 09/05/2016 09/09/2016. Under condition 4.1 the agricultural facilities can install photovoltaics systems reducing the energy demand of their facilities.
- Condition 4.1 Categories A & B Investments for improving the overall performance and sustainability of the agricultural and livestock farms



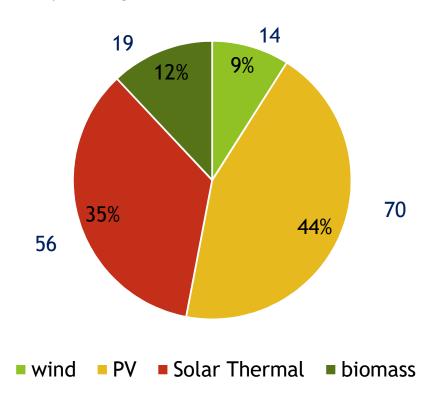
RES companies, imports & cost (1)

- Since 2002 the RES market in Cyprus has started timidly to develop.
- At the beginning quite few companies have been in operation, mainly for stand-alone PV systems, PV systems for agriculture etc. However, after the operation of Governmental Support Policies (feed in tariffs, subsidies, etc.) all the technologies have been receiving support until 2014.
- Currently, more than 160 companies are actively engaged with the RES field in Cyprus.

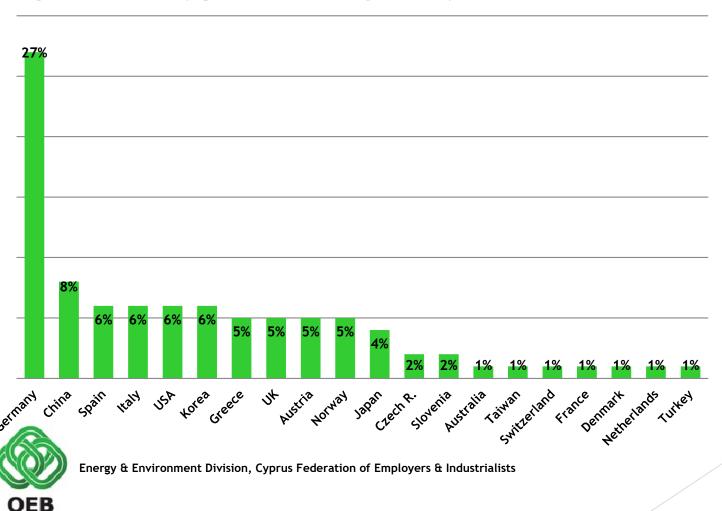


RES companies, imports & cost (1)

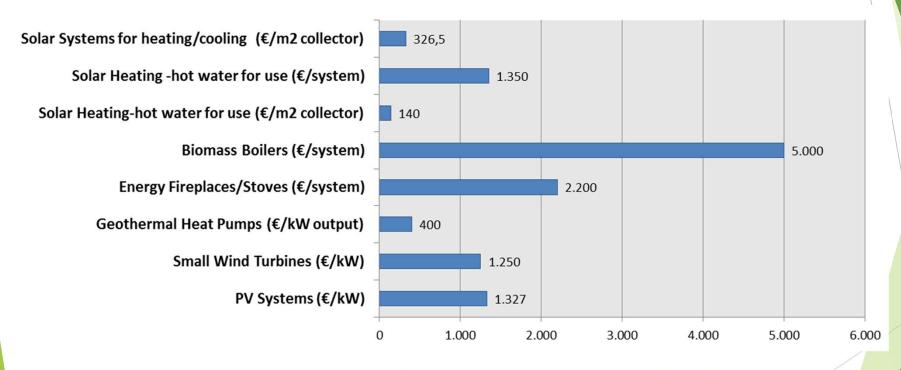
Below is presented the percentage of the companies involved in different RES technologies. The RES market in Cyprus is consisted mainly by local companies. Few foreign companies were engaged in Cyprus through the installation mainly of large Wind Turbines.

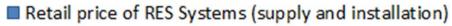


Countries of origin of RES equipment/technologies imports to Cyprus during the years 2010-2016



Retail price of RES Systems in Cyprus in 2016

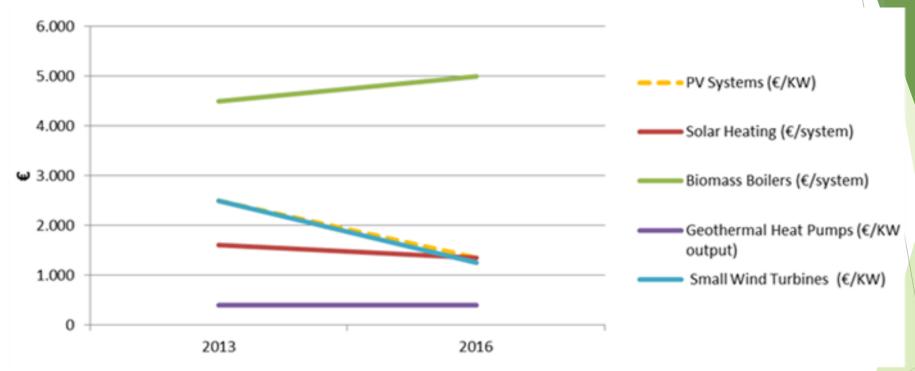






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Retail prices of RES equipment/technologies



Comparison of Retail price of RES Systems in Cyprus in 2013 and 2016



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Thank you for your attention

Anthi Charalambous

Head of Energy & Environment Division

Cyprus Federation of Employers & Industrialists

acharalambous@oeb.org.cy

