

Federal Ministry for Economic Affairs and Energy



PV Implementation in Agro-Industries in Ghana

Webinar

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Overview of the Agro-Industrial Sector in Ghana

□ Agro-industrial sector a critical sector in Ghana's economy:

- □ Major source of employment
- Reduction in Post Harvest Losses
- □ Shelf-life extension
- Foreign exchange earner (US\$1.58 billion in 2019 or ~10% of total exports)
- □ Majority (99%) of agro-industries are either micro or small
- Agro-industries a major consumers of electricity and fall with the SLT category, with majority of falling within LV and, MV sub-categories)
- Faced with high electricity tariffs thus need to reduce cost of electricity the main driver for PV solutions

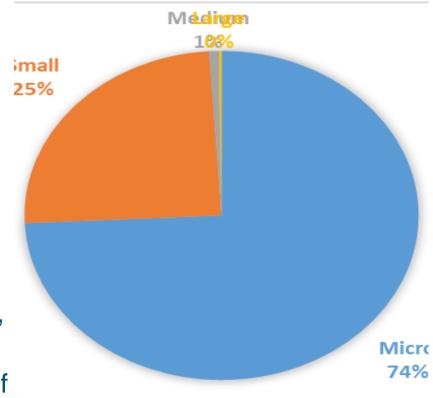
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Status of PV Implementation in Agro Industry

- 7.28 MW installed and operational in 13 establishments with 4.76 MW under construction in another 2
 - □ 3.929 MW (54%) installed in the beverages (alcoholic and non-alcoholic) sector
 - □ 1.358 MW (19%) in cocoa processing
 - □ 0.999 MW (14%) in Fast Moving Consumer Goods (FMCG);

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- □ 0.524 MW (7%) in fish/meat processing
- □ 0.46 MW (6%) in fruit processing
- Eighty-three percent (83%) installed after 2017, coinciding with the advent of third-party financing models
- Eight (62%) of the projects financed through the leasing model; 4 (33%) through PPA; 1 directly procured
- Cross Boundary Energy (CBE), Ecoligo, Berkley Energy, Redavia Solar Power, Dutch & Co, Sunpower Innovations, AB Solar/DSE Group and Yingli Naneme are among the main market players



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Potential for PV Implementation in Agro-Industry

- Could be quite significant given than only less than 15% of agro-processing establishments in Greater Accra have installed captive PV systems
- Firms involved in cocoa processing, beverages and fruit processing (predominantly for exports) have the greatest potential
- Opportunities also exist within the government One District One Factory (1D1F) programme. It emerged that some of the already established businesses are struggling with the high electricity bills
 - □ 76 factories had been completed as end 2020, 50% of which are into agro-processing
 - □ 36 factories completed awaiting operationalisation



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Thank you for your attention