

# Initiatives affecting RES investments in Ukraine

The background of the slide features a landscape with three wind turbines silhouetted against a sunset sky. The sky transitions from a pale blue at the top to a bright yellow and orange near the horizon. In the foreground, there is a vast field of green plants with small yellow flowers, likely rapeseed, stretching to the horizon.

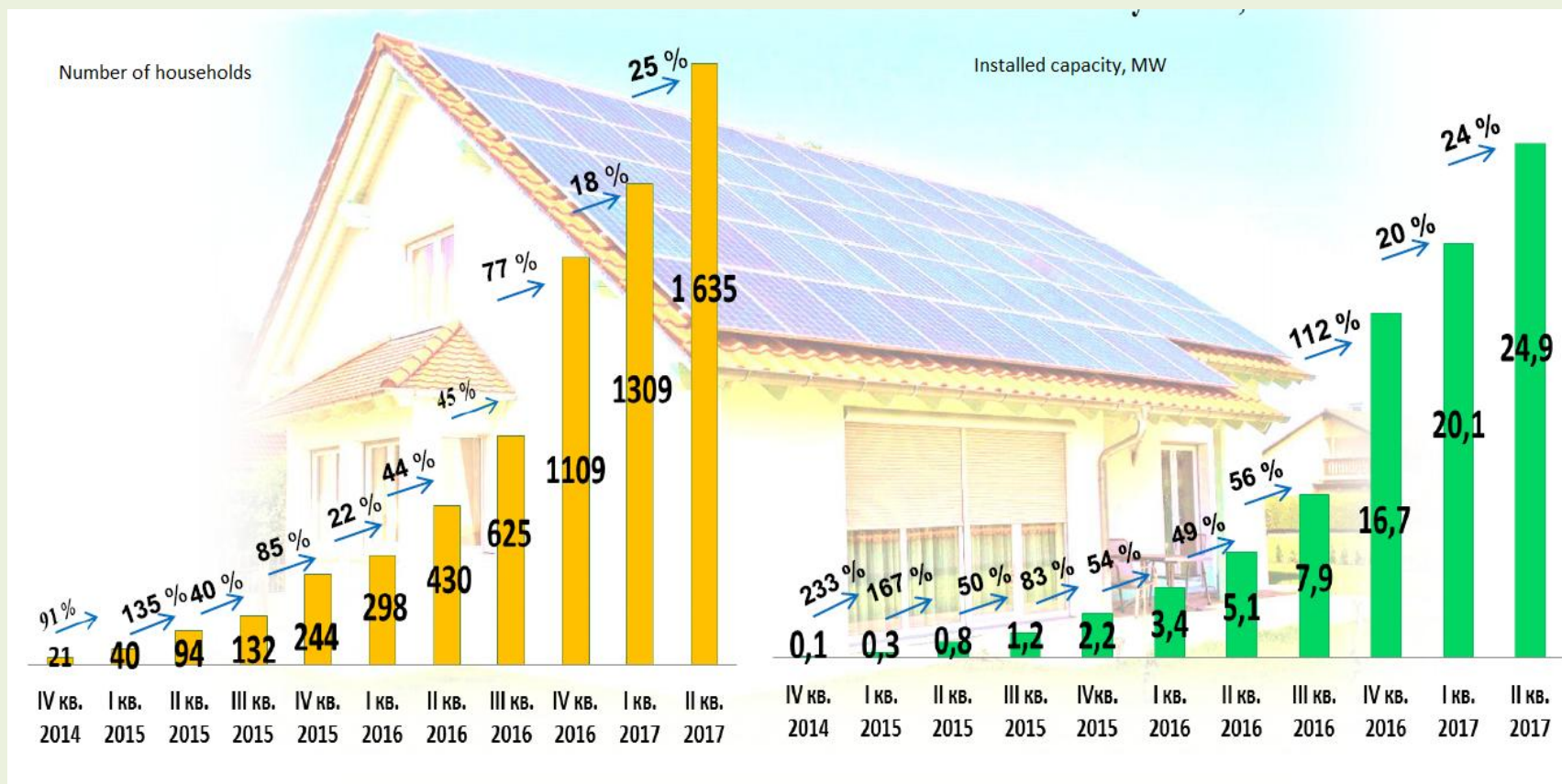
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# Positive measures

- Increased FIT for households
- Almost 100% payment for electricity against FIT in 2016
- One-stop-shop service
- Growing list of fin. companies providing loans for RES
- Growing share of companies obtaining 5-10% surplus to existing FIT for using Ukrainian equipment
- Plans to “inhabit” Chornobyl zone with solar power plants
- Revision and termination of contracts with companies who do not show any construction of RES objects, but who “booked” capacity of Energy System
- «Green calculator» (under construction)
- Online map for RES and EE measures

# Increased FIT for households



Source: Shafarenko, Yu. State Agency on Energy Efficiency and Energy Saving

# One-stop-shop service, “green calculator” (both under construction)

- State Agency on Energy Efficiency and Energy Saving + State Enterprise «Vinnytsya Expert Center on Energy Efficiency» = «Green Investments Center», aimed at support of investment projects of RES

<https://www.gidc.in.ua>

- “green calculator” (cost parameters of RES facilities)

# Growing list of fin. companies providing loans for RES

- EBRD (Program USELF) – loans from EUR 1,5 mln for electricity from RES
- EBRD – loans EUR 5-250 mln against 7-10%
- NEFCO – loans EUR 0,05-5 mln against 6%
- Dutch Investment Fund IFU – loans up to EUR 0,2 mln
- European Investment Bank – loans for municipalities from EUR 10 mln against 4%
- World Bank + UkrEximBank (UA) – loans up to USD 30 mln
- Ukgazbank (UA) against 7%
- Potentially «Reiffeizen Bank Aval»

# Plans to “inhabit” Chernobyl zone with solar power plants

- Several solar parks: 100 MW (developers from Belgium) + 1 GW (GCL System Integration Technology and China National Complete Engineering Corporation).
- Require legislative change of area’s status



# Contracts Termination

- In 2017, “UkrEnergo” revised and terminated contracts with 2 companies who do not show any construction of RES objects, but who “booked” capacity of power system. It freed 1,1 GW for new potential facilities
- Power system is capable to connect only 4.5 GW of new capacities by 2026, of which 4.2 GW are already “booked”

# Online map for RES and EE measures



<http://www.uamap.org.ua/en>



# Negative points

- Increased payment for grid connection (not enacted)
- Lowered FIT for solar PP with unit capacity of above 10 MW
- Termination of blending mandate requirement in 2015 for biofuels

# Further measures that need to be undertaken to spur RES in Ukraine

- Development of financial regional programs (i.e. those partially financed from local budgets)
- Revision of building codes to integrate more RES and to stimulate creation of zero-energy households and settlements
- Measures lowering the cost of borrowed capital (WACC in Ukraine up to 19%(!), in EU – 1,8-12,5%)



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Thank you for your attention!

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