**As the pic specifies** applied to this section SPECIFICALLY comprehensive solar-energy system/s typically consists of very strong **solar ENERGY panels (*vnom*/ vol/ vmp/ voc's...). (Manufacturers warranties of upto e.g. 30 years, true -/+12/24/36/48 volt upward ranges/ high efficiency...) only from SM/G!);**that effectively MODULATES (in relation to e.g **system** voltage/s etc) solar rays properly into stabilized electric current (DC - Direct Current), (please note all panels are not created equal!) this current is directly sent to a specialized **charge**/**MPPT controller (specially from SM)**that **successfully** (through e.g. Accuracy), manages e.g. the accurate charging rate/s & output voltag/s of the current flowing to the eg the **battery bank/s**. (Please be aware of cheap limitations regarding e.g. panels especially). From the battery bank/s the power flows directly to a specialized SM/G **in-verter**that converts the e.g.12/24/48 Volt DC (VALID Direct Current) power to 220/230/360 VALID Volt AC (Alternating Variances plugin's) that you can use in your e.g. home /farm/ business/ office etc without any substantial e.g. losses... Contact US regarding e.g. S.A charging rates /ratios while usage/non-usage/expert modes as well as ideal /specific contextual charging ratios applied to sustainabilities etc especially & beyond/ brand/s compatibilities/ min/max wat which can be stored on e.g. specific system voltages etc. (**Lastly applied to this section SPECIFICALLY laminated**solar panels can work with wind turbines (dc sources) charge batteries however through e.g. different (INTEGRATED) charge controllers called [hybrid](https://m.youtube.com/watch?v=uxvXAFrZJQg). With this specific option wind turbines can be connected in place of solar panels, see specs... as to how **strong** wind must be... to be *operational/ practical*). (Ac Battery chargers (via generator /e.g, grid as ''AC'' 'backup') can be installed to charge batteries, if e.g. Dc sources 'runs dry', as mentioned, keep in mind VARIOUS technicalities of E.G. sizing etc, influencing various sustain abilities etc).