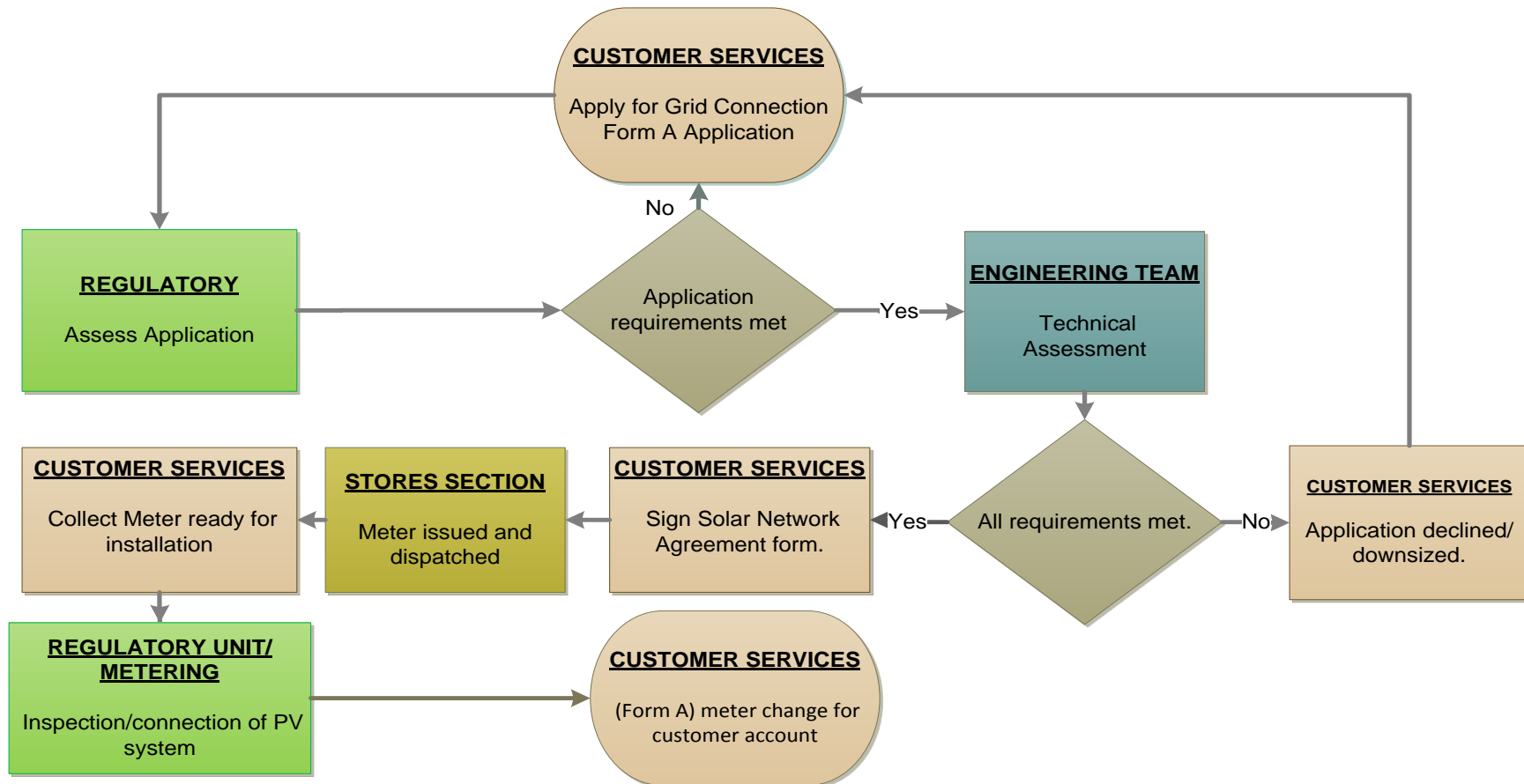
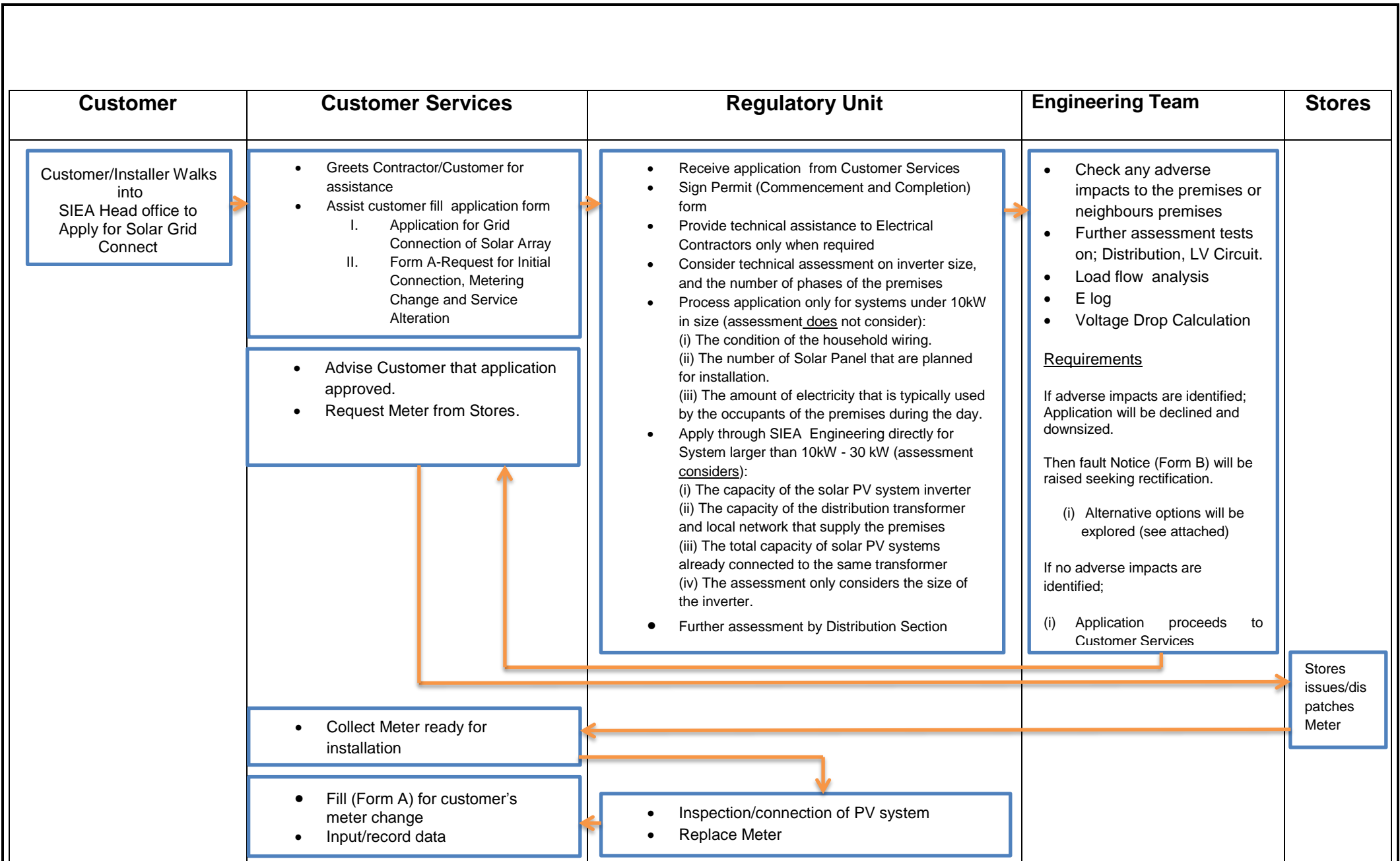




OVERVIEW PROCESS FOR SOLAR GRID CONNECT





Overview process for Solar Grid Connect

Step 1	<u>Customer Services (CSO)</u>
	<ul style="list-style-type: none"> • Greets Installer/Customer for assistance • Assist Installer/Customer to fill the Network application form <ol style="list-style-type: none"> I. Application for Grid Connection of Solar Array II. Form A- Request for Initial Connection, Metering Change, Service Alteration
Step 2	<u>Regulatory Unit</u>
	<ul style="list-style-type: none"> • Provide technical assistance to Installer only when required • Sign Permit (Commencement and Completion) form • Consider technical assessment on inverter size, and the number of phases of the premises • Process application only for systems under 10kW in size, (assessment <u>does</u> not consider): <ol style="list-style-type: none"> I. The condition of the household wiring. II. The number of Solar Panel that are planned for installation. III. The amount of electricity that is typically used by the occupants of the premises during the day. • Apply through SIEA Engineering directly for System larger than 10kW - 30 kW (assessment <u>considers</u>): <ol style="list-style-type: none"> I. The capacity of the solar PV system inverter II. The capacity of the distribution transformer and local network that supply the premises III. The total capacity of solar PV systems already connected to the same transformer IV. The assessment only considers the size of the inverter.
Step 3	<u>Engineering Team</u>
	<ul style="list-style-type: none"> • Check any adverse impacts to the premises or neighbours premises • Further assessment on system larger than 30kW • Assessment tests on; Generator, Distribution, LV Circuit. • Load flow analysis • E log

	<ul style="list-style-type: none"> • Voltage Drop Calculation • Requirements <ul style="list-style-type: none"> I. Reduce probability of transformer to enter net export feedback onto the feeder II. Ensure Feeder/Transformer peak load stabilizes at 75%-85% III. Avoid PV system share the same transformer IV. Upgrade number of phases to the premises to accommodate the desired inverter size • If adverse impacts are identified; <ul style="list-style-type: none"> I. Application will be declined and downsized. Then fault Notice (Form B) will be raised seeking rectification. II. Alternative options will be explored (see attached) • If no adverse impacts are identified; <ul style="list-style-type: none"> III. Customer will proceed with application
Step 4	<u>Customer Services</u>
	<ul style="list-style-type: none"> • Advise Customer that application approved. • Sign Network Agreement form • Request Meter from Stores
Step 5	<u>Stores Section</u>
	<ul style="list-style-type: none"> • Issues Meter to Customer Services
Step 6	<u>Customer Services</u>
	<ul style="list-style-type: none"> • Collect Meter ready for installation
Step 7	<u>Regulatory Unit/Metering Section</u>
	<ul style="list-style-type: none"> • Inspection/connection of PV system • Replace Meter
Step 8	<u>Customer Services</u>
	<ul style="list-style-type: none"> • Fill (Form A) for customer's meter change • Input and record data in the system