sa todays hot water generated percentage

Hot Water Energy Generated Percentage

Author: Peter Hormann Note: sensors shown in italised text are raw/source sensors. They are generally not used for display in Date: 12-Oct-24 Lovelace and modifying the state units will cause calculation errors. SENSOR UNIQUE ID FRIENDLY NAME / ALIAS YAML Attributes STATE SOURCE UNITS STATUS SENSORS sa dashboard status Dashboard Status all Shows the Dashboard Status site text site sa mer status System Status all text none Shows the system Status site PV Performance all Shows the PV Performance percentage as reported by SA (Efficiency of Solar System) sa mer percentage % none POWER SENSORS (W) Used for display purposes. Units and number of decimal points can be changed in Lovelace. Power Consumption all w Reports current consumption data, updated every 30 seconds onsumed sa consumption power time_stamp W mport export sa import export power Power Import Export all W time stamp Calculates the current consumption minus the power generated to give you a positive or negative power usage, updates every 30 seconds. (positive means you have surplus solar, negative means you are importing from grid) Used for display purposes. Units and number of decimal points can be changed in Lovelace. **ENERGY SENSORS (Wh)** sa_todays_energy_consumed_total **Total Energy Consumed** all Wh time_stamp Reports accumulated daily total of Todays Consumed Energy (Total house usage grid and solar) onsumed Wh all mport_export sa_todays_energy_imported Total Energy Imported all W/h time_stamp Reports accumulated daily total of energy imported from the grid (Import) Total Energy Exported all Wh Reports accumulated daily total of energy exported to the grid (Export or Feed in) mport_export sa_todays_energy_exported time_stamp sa_todays_air_conditioner_total **Heating Cooling Energy** not 3phase Wh time_stamp SA Channel data as labelled "load_air_conditioner". not 3phase SA Channel data as labelled "load ev charger". sa_todays_electric_vehicle_total Electric Vehicle Energy Wh time stamp not 3phase SA Channel data as labelled "load hot water". нw sa todays hot water total Hot Water Energy Wh time stamp sa_todays_stove_oven_total Stove Oven Energy not 3phase Wh time_stamp SA Channel data as labelled "load_stove" Consumed sa_todays_energy_other_total Todays Energy Other Total not 3phase W/h time_stamp Balance of total consumed energy that's not heating-cooling, EV charging, hot water or stove-oven. sa_todays_heating_cooling_generated **Heating Cooling Energy Generated** not 3phase Wh time stamp Heating-cooling energy from generated sources. ac_energy_last5min percentage of total ٩C sa_todays_heating_cooling_imported **Heating Cooling Energy Imported** not 3phase Wh time_stamp Heating-cooling energy imported from the grid. ac_energy_last5min percentage of total sa_todays_heating_cooling_generated_percentage Heating Cooling Energy Generated Percentage not 3phase time_stamp Same as Heating Cooling Energy Generate percentage_of_total attribute. sa_todays_electric_vehicle_generated Electric Vehicle Energy Generated not 3phase Wh EV charging energy from generated sources. time stamp ev_energy_last5min percentage of total sa todays electric vehicle imported Electric Vehicle Energy Imported not 3phase Wh time_stamp EV charging energy imported from the grid. ev_energy_last5min percentage of total Electric Vehicle Energy Generated Percentage Same as Electric Vehicle Energy Generate percentage of total attribute. sa todays electric vehicle generated percentage not 3phase % time stamp Wh time_stamp sa_todays_hot_water_generated Hot Water Energy Generated not 3phase Hot water energy from generated sources. hw_energy_last5min percentage_of_total łW sa_todays_hot_water_imported Hot Water Energy Imported Hot water energy imported from the grid. not 3phase Wh time_stamp hw_energy_last5min percentage_of_total

time stamp

Same as Hot Water Energy Generate percentage of total attribute.

not 3phase

sa_todays_stove_oven_generated sa_todays_stove_oven_imported sa_todays_stove_oven_generated_percentage GENERATED SOLAR % SENSORS	Stove Oven Energy Generated Stove Oven Energy Imported Stove Oven Energy Generated Percentage	YAML SOURCE not 3phase not 3phase	STATE UNITS Wh	time_stamp st_energy_last5min percentage_of_total time_stamp st_energy_last5min percentage of total	Lovelace and modifying the state units will cause calculation errors. DESCRIPTION Stove-oven energy from generated sources. Stove-oven energy imported from the grid.
sa_todays_stove_oven_imported sa_todays_stove_oven_generated_percentage	Stove Oven Energy Imported	not 3phase		st_energy_last5min percentage_of_total time_stamp st_energy_last5min	
sa_todays_stove_oven_generated_percentage			Wh	time_stamp st_energy_last5min	Stove-oven energy imported from the grid.
	Stove Oven Energy Generated Percentage	not 3phase			
GENERATED SOLAR % SENSORS			%	time_stamp	Same as Stove Oven Energy Generate percentage_of_total attribute.
sa_todays_generated_consumed_percentage	Percentage Generated Energy Consumed	all	%	time_stamp	Reports the accumulated daily percentage of generated energy vs consumed, higher the value the more solar energy you have used, lower means more exported.
sa_todays_consumed_generated_percentage	Percentage Consumed Energy Generated	all	%	time_stamp	Reports the accumulated daily percentage of energy consumed from Solar vs total consumption i.e. percentage of solar use vs grid use, higher the value the more you used of your solar.
ENERGY COST RELATED SENSORS (\$)					
sa_todays_energy_imported_cost	Todays Energy Imported Cost	all	\$	last_reset	As defined by HA energy dashboard - not in solar_analytics.yaml
sa_todays_energy_exported_compensation	Todays Energy Exported Compensation	all	\$	last_reset	As defined by HA energy dashboard - not in solar_analytics.yaml.
sa_todays_energy_total_net_cost	Todays Energy Total Net Cost	all	\$	time_stamp	Reports the net cost (imported cost minus exported revenue)
sa todays energy import rate	Todays Energy Import Rate	all	\$/kWh	time_stamp	Import rate in cost / kWh
mport_export sa_todays_energy_import_rate mport_export sa_todays_energy_export_rate	Todays Energy Export Rate	all	\$/kWh	time_stamp	Export rate in cost / kWh
HISTORY SENSOR					Used for plotting a graph - e.g. using Apex Charts
sa_todays_energy_history	Total Energy History	all	date-time	times times_simple energy_consumed energy_generated energy_load_air_conditioner energy_load_ev_charger energy_load_hot_water	
	sa_todays_generated_consumed_percentage sa_todays_consumed_generated_percentage ENERGY COST RELATED SENSORS (\$) sa_todays_energy_imported_cost sa_todays_energy_exported_compensation sa_todays_energy_total_net_cost sa_todays_energy_import_rate sa_todays_energy_export_rate HISTORY SENSOR	sa_todays_generated_consumed_percentage Percentage Generated Energy Consumed BENERGY COST RELATED SENSORS (\$) sa_todays_energy_imported_cost	sa_todays_generated_consumed_percentage	sa_todays_generated_consumed_percentage	Sa_todays_generated_consumed_percentage

sa data by 5min load stove imported

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Author: Peter Hormann Note: sensors shown in italised text are raw/source sensors. They are generally not used for display in Date: 12-Oct-24 Lovelace and modifying the state units will cause calculation errors. SENSOR UNIQUE ID FRIENDLY NAME / ALIAS YAML Attributes STATE SOURCE UNITS REST (HTTP) SENSORS sa auth token sa_auth_token seconds Get an refreshed authenticion token every 2 hours (typically won't have changed) or whenever expires triggered by the sa_token_expiry_timer automation. State value is the duration until token expires in seconds. Attributes include the token itself, and the date-time of next expiry. sa site list sa_site_list all date-time Get the site details and status, updated every 24 hours. State is date-time of last update. Various attributes as provided by Solar Analytics. Shows the status of site updated every hour. State is text label - e.g. "good". Various attributes as sa status sa status text provided by Solar Analytics. sa_status_log_entry sa_status_log_entry all text Get the site fault status log entry for the specified site_id updated every 5 minutes. State is short text description of any fault, normally "Good". Various attributes as provided by Solar Analytics. api sa_data_by_5min... Get used to retrieve energy related sensor data every 5 mins. The retrieved sensor data is considered as "raw", where it's typically not used display or historic data purposes. sa data by 5min time stamp sa data by 5min_time_stamp all date-time Solar Analytics timestamp of the provided data. time true/false Derived true/false sensor indicating true for 5 minutes at the start of the day (post midnight). Useful for sa_data_by_5min_meter_reset sa_data_by_5min_meter_reset all triagering reseting cost related sensors. all Wh onsumed sa_data_by_5min_energy_consumed sa_data_by_5min_energy_consumed none Last 5 minutes energy consumed. sa data by 5min load air conditioner sa data by 5min load air conditioner not 3phase Wh none Last 5 minutes energy for an "load air conditioner" (channel as labeled by Solar Analytics). sa_data_by_5min_load_ev_charger sa_data_by_5min_load_ev_charger not 3phase Wh none Last 5 minutes energy for an "load_ev_charger" load (channel as labeled by Solar Analytics). Last 5 minutes energy for a "load_hot_water" (channel as labeled by Solar Analytics). sa_data_by_5min_load_hot_water sa_data_by_5min_load_hot_water not 3phase Wh sa_data_by_5min_load_stove sa_data_by_5min_load_stove not 3phase Wh none Last 5 minutes energy for a "load stove" (channel as labeled by Solar Analytics). onsumed sa_data_by_5min_energy_consumed_total sa_data_by_5min_energy_consumed_total all Wh none Daily total of 5 minute energy consumed. sa data by 5min load air conditioner total sa data by 5min load air conditioner total not 3phase Daily total of 5 minute energy air conditioner load. sa data by 5min load ev charger total sa data by 5min load ev charger total not 3phase Wh none Daily total of 5 minute energy EV charger load. чω sa data by 5min load hot water total sa data by 5min load hot water total not 3nhase Wh none Daily total of 5 minute energy hot water load. sa data by 5min load stove total sa data by 5min load stove total not 3phase Wh none Daily total of 5 minute energy stove-oven load. all Daily total of 5 minute energy imported (calculated). mport_export sa_data_by_5min_imported_total sa_data_by_5min_imported_total Wh none sa_data_by_5min_exported_total sa_data_by_5min_exported_total all Wh Daily total of 5 minute energy solar exported (calculated). mport_export none sa_data_by_5min_load_air_conditioner_generated sa_data_by_5min_load_air_conditioner_generated not 3phase Wh Daily total of 5 minute energy air conditioner load that was generated. none sa data by 5min load air conditioner imported sa data by 5min load air conditioner imported not 3phase Wh none Daily total of 5 minute energy air conditioner load that was imported. sa_data_by_5min_load_ev_charger_generated sa_data_by_5min_load_ev_charger_generated not 3phase Wh Daily total of 5 minute energy EV charger load that was generated. none Daily total of 5 minute energy EV charger load that was imported. sa_data_by_5min_load_ev_charger_imported sa_data_by_5min_load_ev_charger_imported not 3phase Wh none sa data by 5min load hot water generated sa data by 5min load hot water generated not 3phase Wh Daily total of 5 minute energy hot water load that was generated. none sa data by 5min load hot water imported sa data by 5min load hot water imported not 3phase Wh Daily total of 5 minute energy hot water load that was imported. sa_data_by_5min_load_stove_generated sa_data_by_5min_load_stove_generated not 3phase Wh none Daily total of 5 minute energy stove-oven load that was generated.

Wh

none

Daily total of 5 minute energy stove-oven load that was imported.

not 3phase

Author: Peter Hormann Version: 8 Date: 12-Oct-24

Note: sensors shown in italised text are raw/source sensors. They are generally not used for display in Lovelace and modifying the state units will cause calculation errors.

version	5 C			Date. 12	****	Lovelace and modifying the state ands will cause calculation errors.
ТҮРЕ	SENSOR UNIQUE_ID	FRIENDLY NAME / ALIAS	YAML SOURCE	STATE UNITS	Attributes	DESCRIPTION
time	sa_data_by_5min_history_time_stamp	sa_data_by_5min_history_time_stamp	all	array	none	Array of 5 minute timestamps for the recent history.
time	sa_data_by_5min_history_time_stamp_count	sa_data_by_5min_history_time_stamp_count	all	number	none	Count of entries in the history array.
consumed	sa_data_by_5min_history_energy_consumed	sa_data_by_5min_history_energy_consumed	all	array	none	Array of 5 minute consumed energy.
generated	sa_data_by_5min_history_energy_generated	sa_data_by_5min_history_energy_generated	all	array	none	Array of 5 minute generated energy.
AC	sa_data_by_5min_history_load_air_conditioner	sa_data_by_5min_history_load_air_conditioner	not 3phase	array	none	Array of 5 minute air conditioner load energy.
EV	sa_data_by_5min_history_load_ev_charger	sa_data_by_5min_history_load_ev_charger	not 3phase	array	none	Array of 5 minute EV charger load energy.
HW	sa_data_by_5min_history_load_hot_water	sa_data_by_5min_history_load_hot_water	not 3phase	array	none	Array of 5 minute hot water load energy.
ST	sa_data_by_5min_history_load_stove	sa_data_by_5min_history_load_stove	not 3phase	array	none	Array of 5 minute stove-oven load energy.
api	sa_live_site_data		all			Get used to retrieve power related sensor data every minute. The retrieved sensor data is considered as "raw", where it's typically not used display or historic data purposes.
time	sa_live_site_data_time_stamp	sa live site data time stamp	all	date-time	none	Solar Analytics timestamp of the provided data.
consumed	sa_live_site_data_consumed	sa live site data consumed	all	W	none	Average consumption power (previous minute)
generated	sa live site data generated	sa live site data generated	all	W	none	Average generation power (previous minute)
import_export	sa_live_site_data_imported_exported	sa_live_site_data_imported_exported	all	W	none	Average net imported (+ve) or exported (-ve) power (previous minute).
арі	sa_data_by_hour		all			Get used to retrieve energy related sensor data every hour. The retrieved sensor data is considered as "raw", where it's typically not used display or historic data purposes.
time	sa_data_by_hour_time_stamp	sa_data_by_hour_time_stamp	all	date-time	none	Solar Analytics timestamp of the provided data.
generated	sa_data_by_hour_generated_expected	sa_data_by_hour_generated_expected	all	Wh	none	Expected generated energy to the current hour for the day.
	AUTOMATIONS					
auth	sa_token_expiry_update	SA Token Expiry update	all	on/off	last_triggered	Automation to restart timer when the authentication token is refreshed.
auth	sa_token_refresh_on_timer_expiry	SA Token refresh on Timer expiry	all	on/off	last_triggered	Automation to refresh the token when the timer expires.
auth	sa_refresh_all_rest_gets	SA Refresh all REST data gets	all	on/off	last_triggered	Manually initiated automation for force refresh of all rest gets.
api	sa data by 5min trigger	SA Data by 5min Trigger	all	on/off	last_triggered	Automated trigger for sa_data_by_5min sensors - fires every 5 minutes.
api	sa live site data trigger	SA Live Site Data Trigger	all	on/off	last_triggered	Automated trigger for sa_live_site_data sensors - fires every minute.
api	sa_data_by_hour_trigger	SA Data By Hour Trigger	all	on/off	last_triggered	Automated trigger for sa_data_by_hour sensors - fires every hour.
	TIMERS					
auth	sa_token_expiry_timer	sa_token_expiry_timer	all	seconds	none	Timer for triggering refresh before token expiry.
	TEXT SENSORS					
site	sa_site_id	sa_site_id	all	text	none	Site identifier as defined from the secrets.yaml file.
	SECRETS (defined in secrets.yaml)					
site	!secret sa_site_id	na	all	text	none	User site identifier defined in secrets.yaml file.
site	!secret sa_username	na na	all	text	none	User username defined in secrets.yaml file
site	!secret sa_password	na	all	text	none	User password defined in secrets.yamı file.
	.500.00 50_pu55word		un.	text.	none	oser passivora acymea in secretaryunii jire.