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ABBREVIATIONS

A	=	collector area, (m^2)
a	=	constant value
b	=	constant value
B/C Ratio	=	constant value of benefit-cost
a_1	=	constant value, (1.52 $W.m^{-2}.K^{-1}$)
a_2	=	constant value, (0.0085 $W.m^{-2}.K^{-1}$)
COP	=	Coefficient of Performance
C_P	=	heat capacity of a substance ($kJ.kg^{-1}.K^{-1}$)
G_β	=	tilt solar irradiation, ($W.m^{-2}$)
IRR	=	internal rate of return, (%)
$LCCA$	=	Life Cycle Cost Analysis, (Baht)
$\dot{m}$	=	flow rate of a substance ($kg.s^{-1}$)
n	=	the period of payment, (Years)
NPV	=	net present value, (Baht)
PB	=	payback period, (Years)
$\dot{Q}_{ab}$	=	heat flow rate at absorber, (kW)
$\dot{Q}_{auxiliary}$	=	heat flow rate in use of LPG, (kW)
$\dot{Q}_{collector}$	=	heat flow rate at collector, (kW)
Q_{cold}	=	cooling capacities, (kWh)
$\dot{Q}_{cond}$	=	heat flow rate at condenser, (kW)
$\dot{Q}_{evap}$	=	heat flow rate at evaporator, (kW)
$\dot{Q}_{gen}$	=	heat flow rate at generator, (kW)
$\dot{Q}_{in}$	=	heat flow rate inlet the component, (kW)
$\dot{Q}_{loss}$	=	heat loss flow rate via the component, (kW)

ABBREVIATIONS (CONT.)

$\dot{Q}_{out}$	=	heat flow rate outlet the component, (kW)
$\dot{Q}_{rej}$	=	total heat flow rate rejected to the environment, (kW)
$\dot{Q}_{storage}$	=	heat flow rate at hot storage tank, (kW)
$SLCCA$	=	Specific Life Cycle Cost Analysis, (Baht. kWh^{-1})
$SOLF_{the}$	=	fraction of the solar energy
η_0	=	constant value, (0.717)
$\eta_{storage}$	=	efficiency of hot water storage tank
ΔT	=	differential temperature (K)
β	=	constant value
α	=	constant value