Elsabet Nomonde Noma Nielsen - DTU Orbit (08/10/2018)

Elsabet Nomonde Noma Nielsen
Senior Researcher
Department of Civil Engineering
Energy and Services
Postal address:
Nordvej 119, 105
2800 Kgs. Lyngby
Denmark
Email: ean@byg.dtu.dk
Phone: 45251901

Publications:

Yearly thermal performances of solar heating plants in Denmark – Measured and calculated
Publication: Research - peer-review › Journal article – Annual report year: 2018

Availability of high quality weather data measurements
Publication: Research › Report – Annual report year: 2017

Experimental investigations on solar heating/heat pump systems for single family houses
Publication: Research › Report – Annual report year: 2017

Solaffugter
Publication: Research › Report – Annual report year: 2017

Applications of Polysun at DTU Denmark
Publication: Research - peer-review › Paper – Annual report year: 2017

Calculated thermal performance of solar collectors based on measured weather data from 2001-2010
Publication: Research - peer-review › Conference article – Annual report year: 2015

Measurements of the angular distribution of diffuse irradiance
Publication: Research - peer-review › Conference article – Annual report year: 2015

Inlet stratification device
Publication: Research › Patent – Annual report year: 2014

Investigations of Intelligent Solar Heating Systems for Single Family House
Publication: Research - peer-review › Conference article – Annual report year: 2014

Upgrade and extension of the climate station at DTU Byg
Publication: Research › Report – Annual report year: 2014

Solar/electric heating systems for the future energy system
Publication: Research - peer-review › Report – Annual report year: 2013

A simplified heat pump model for use in solar plus heat pump system simulation studies
Publication: Research - peer-review › Conference article – Annual report year: 2012
Development of seasonal heat storage based on stable supercooling of a sodium acetate water mixture
Publication: Research - peer-review › Conference article – Annual report year: 2012

Efficiencies of flat plate solar collectors at different flow rates
Publication: Research - peer-review › Conference article – Annual report year: 2012

Investigation of Thermal Performance of Flat Plate and Evacuated Tubular Solar Collectors According to a New Dynamic Test Method
Publication: Research - peer-review › Conference article – Annual report year: 2012

Measurement and modelling of a multifunctional solar plus heat pump system from Nilan: Experiences from one year of test operation.
Publication: Research - peer-review › Paper – Annual report year: 2012

Model predictive control for a smart solar tank based on weather and consumption forecasts
Publication: Research - peer-review › Conference article – Annual report year: 2012

Thermal behavior of a heat exchanger module for seasonal heat storage
Publication: Research - peer-review › Conference article – Annual report year: 2012

Thermal performance of marketed SDHW systems under laboratory conditions
Publication: Research - peer-review › Paper – Annual report year: 2012

Afprøvning af energisolfanger med luftsolfangerfunktion fra Venetian Solar ApS
Publication: Research › Report – Annual report year: 2011

Energy savings for solar heating systems in one family houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Experimental studies on seasonal heat storage based on stable supercooling of a sodium acetate water mixture
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Heat transfer capacity of a heat exchanger module for seasonal heat storage
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Modeling, Measurements and Validation of a solar plus heat pump compact unit from Nilan
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Prøvestand til luftsolfangere
Publication: Research › Report – Annual report year: 2011

Solar combisystems with forecast control to increase the solar fraction and lower the auxiliary energy cost
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Study on a tracking solar collector
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Thermal performance of small SDHW systems with differently designed mantle tanks
Publication: Research - peer-review › Report – Annual report year: 2011
Thermal stratification in hot water storage tanks with fabric stratification inlet pipes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A method to determine stratification efficiency of thermal energy storage processes independently from storage heat losses
Publication: Research - peer-review › Journal article – Annual report year: 2010

DETAILED MODELLING OF CHARGING BEHAVIOUR OF SMART SOLAR TANKS
Publication: Research - peer-review › Poster – Annual report year: 2010

DETAILED MODELLING OF CHARGING BEHAVIOUR OF SMART SOLAR TANKS
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Kombinerede sol/varmepumpeanlæg i praksis: analyse af måledata
Publication: Research › Report – Annual report year: 2010

Solar Electric heating systems using smart solar tanks and variable electricity costs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

The covariation of heating load and solar energy production with the electricity price variations in Denmark
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Thermal advantage of tracking solar collectors under Danish weather conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Towards seasonal heat storage based on stable super cooling of sodium acetate trihydrate
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Comparative analysis of thermal energy storage stratification efficiency: A new method combines advantages of previous approaches
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Methods to determine stratification efficiency of thermal energy storage processes–Review and theoretical comparison
Publication: Research - peer-review › Journal article – Annual report year: 2009

Solar Electric Heating for the future Energy System
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Theoretical variations of the thermal performance of different solar collectors and solar combi systems as function of the varying yearly weather conditions in Denmark
Publication: Research - peer-review › Journal article – Annual report year: 2009

Udvikling af fremtidssikret solvarmeanlæg
Publication: Communication › Journal article – Annual report year: 2009

Advanced storage concepts for solar and low energy buildings: IEA Task 32 final report
Publication: Research › Report – Annual report year: 2008

Heat storage for solar heating systems - now and in the future
Publication: Research - peer-review › Conference article – Annual report year: 2008
Inlet stratifiers
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Investigation of solar radiation models for high northern latitudes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Investigations on stratification devices for hot water stores
Publication: Research - peer-review › Journal article – Annual report year: 2008

Long time durability tests of fabric inlet stratification pipes
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Stratification devices
Publication: Research › Article in proceedings – Annual report year: 2008

Solar combi systems
Publication: Research › Ph.D. thesis – Annual report year: 2007

Heat losses from pipes connected to hot water storage tanks
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

Heat losses through pipe connections in hot water stores
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Long time durability tests of fabric inlet stratifiers and calculations with T32 reference conditions
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

Measured reflection from snow
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Multilayer fabric stratification pipes for solar tanks
Publication: Research - peer-review › Journal article – Annual report year: 2007

Theoretical comparison of solar combi systems and stratification design options with T32 reference conditions
Publication: Research › Sound/Visual production (digital) – Annual report year: 2007

Theoretical comparison of solar water/space-heating combi systems and stratification design options
Publication: Research - peer-review › Journal article – Annual report year: 2007

Theoretical investigations of solar combi systems
Publication: Research › Paper – Annual report year: 2007

Towards new standards for advanced stores: Final report
Publication: Research - peer-review › Report – Annual report year: 2007

Advanced storage concepts for solar thermal systems in low energy buildings. Slutrapport
Publication: Research › Report – Annual report year: 2006
Design of medium sized solar combi systems
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fabric inlet stratifiers for advanced water stores
Publication: Research › Paper – Annual report year: 2006

Fabric inlet stratifiers for solar tanks with different volume flow rate
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fabric inlet stratifiers for solar tanks with different volume flow rates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Fabric inlet stratifiers for solar tanks with different volume flow rates
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fabric stratification devices-Multilayer fabric stratifier
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Fyrtånsbygd - 083 Sarfannguaq: Forprojekt
Publication: Research › Report – Annual report year: 2006

INLET STRATIFICATION DEVICE
Publication: Research › Patent – Annual report year: 2006

Investigations of medium sized solar combi systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Investigations of medium sized solar combi systems
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Stratification design options
Publication: Research › Sound/Visual production (digital) – Annual report year: 2006

Theoretical comparison of solar combi systems and stratification design options
Publication: Research › Paper – Annual report year: 2006

Vind- og solprojekt i Uummannaq Kommunia: Forprojekt
Publication: Research › Report – Annual report year: 2006

Investigations of fabric stratifiers for solar tanks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Investigations of fabric stratifiers for solar tanks
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Investigations of medium sized solar heating systems
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Investigations of solar combi systems
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005
Investigations of solar combi systems
Publication: Research - peer-review › Poster – Annual report year: 2005

Investigations of solar combi systems and investigations of fabric stratifiers for solar tanks
Publication: Research › Sound/Visual production (digital) – Annual report year: 2005

Performance improvement by discharge from different levels in solar storage tanks
Publication: Research - peer-review › Journal article – Annual report year: 2005

Smart solar tanks for small solar domestic hot water systems
Publication: Research - peer-review › Conference article – Annual report year: 2005

Stofindløbsrør
Publication: Research › Paper – Annual report year: 2005

Theoretical and Experimental investigations of Inlet Stratifiers for Solar Storage Tanks.
Publication: Research - peer-review › Journal article – Annual report year: 2005

Advantages by discharge from different levels in solar storage tanks
Publication: Research › Sound/Visual production (digital) – Annual report year: 2004

Advantages by discharge from different levels in solar storage tanks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Experimental and theoretical investigations of different water storages for solar combi systems
Publication: Research › Paper – Annual report year: 2004

Investigation of the Solvis stratification inlet pipe for solar tanks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Investigations of the SOLVIS stratification inlet pipe for solar tanks
Publication: Research - peer-review › Poster – Annual report year: 2004

Investigations of the SOLVIS stratification inlet pipe for solar tanks
Publication: Research › Sound/Visual production (digital) – Annual report year: 2004

The influence of the solar radiation model on the calculated solar radiation from a horizontal surface to a tilted surface
Publication: Research - peer-review › Poster – Annual report year: 2004

The influence of the solar radiation model on the calculated solar radiation from a horizontal surface to a tilted surface
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Thermal performance of Danish solar combi systems in practice and in theory
Publication: Research - peer-review › Journal article – Annual report year: 2004

Ph.D. project on solar combi systems
Publication: Research › Sound/Visual production (digital) – Annual report year: 2003

Prøvestand til kombianlæg
Publication: Research › Sound/Visual production (digital) – Annual report year: 2003
Smart solar tanks for small solar domestic hot water systems
Publication: Research › Article in proceedings – Annual report year: 2003

The influence of weather on the thermal performance of solar heating systems
Publication: Research › Article in proceedings – Annual report year: 2003

The influence weather on the thermal performance of solar heating systems
Publication: Research › Sound/Visual production (digital) – Annual report year: 2003

Vejrets indflydelse på solvarmeanlægs ydelse
Publication: Research › Paper – Annual report year: 2003

Afprøvning af solvarmeanlæg med Gas-Sol Compact
Publication: Research › Report – Annual report year: 2002

Afprøvning af solvarmeanlæg med Nilan Sunshine Ecotec naturgaskedel-soltank-unit til brugsved og rumopvarmning
Publication: Research › Report – Annual report year: 2001

Design of combi systems
Publication: Research › Article in proceedings – Annual report year: 2001

Intelligente solvarmeanlæg: Udvikling og afprøvning
Publication: Research › Report – Annual report year: 2001

Intelligente solvarmeanlæg med oliefyr eller gaskedel som backupenergi
Publication: Research › Report – Annual report year: 2001

Undersøgelse af gas-sol compact i lagerprøvestand
Publication: Research › Report – Annual report year: 2001

Smart SDHW systems.
Publication: Research › Report – Annual report year: 2000

Cold water inlet in solar tanks - valuation.
Publication: Research › Report – Annual report year: 1999

DEVELOPMENT OF A SMART SOLAR TANK
Publication: Research › Article in proceedings – Annual report year: 1999

Development of smart solar tanks.
Publication: Research › Report – Annual report year: 1999

Thermal destratification in small standard solar tanks due to mixing during tapping
Publication: Research › Article in proceedings – Annual report year: 1999

Thermal destratification in small standard solar tanks due to mixing during tapping
Publication: Research › Book chapter – Annual report year: 1999

Thermal destratification in small standard solar tanks due to mixing during tapping.
Publication: Research › Report – Annual report year: 1999
Mixing during draw-off in small SDHW systems: Proposal for maximum acceptable mixing.
Publication: Research - peer-review › Report – Annual report year: 1998

Simple characterisation of solar DHW tanks.
Publication: Research - peer-review › Report – Annual report year: 1998

Temperature stratification in a hot water tank with circulation pipe.
Publication: Research - peer-review › Report – Annual report year: 1998

Thermal performance of small solar domestic hot water systems in theory, in the laboratory and in practice.
Publication: Research - peer-review › Book chapter – Annual report year: 1998

Testing of Solar Heated Domestic Hot Water System for Solahart Scandinavia ApS
Publication: Research - peer-review › Report – Annual report year: 1997

Test of a small SDHW-system form the company Solahart Scandinavia ApS.
Publication: Research - peer-review › Report – Annual report year: 1997

Projects:

IEA SHC Task 55 - Integration of Large SHC Systems into District Heating and Cooling (DHC) Networks (II)
Project

IEA PVPS Task 16 Solar resource for high penetration
Project

Highly Efficient and Simplified Thermodynamic Cycle with Isolated Heating and Cooling – Cost Optimized
Project

European Committee for Standardization (CEN) Project ECOTEST
Project

IEA Task 46 Solar resource assessment and forecasting
Project

Follow up on large scale storage in Denmark, Gram
Project

Air collector for dehumidification
Project

Experimental and theoretical investigations of combined solar heating/heat pump systems for single Family houses
Project

EUDP 12-II, IEA Task 42 Compact Thermal Energy Storage 2. period
Project

Advanced Solar Resource Assessment and Forecasting
Project
IEA Task 44 Systems Using Solar Thermal Energy in Combination with Heat Pumps
Project

Upgrade and extension of the Climate station at DTU Byg
Project

Fabric inlet stratification device
Project

Combined development of compact thermal energy storage technologies
Project

Intelligent styresystem til fremtidens solvarmeanlæg
Project

Optimal designs for hot water tanks for solar domestic hot water systems
Project

Effektiviteten af en ny luftsolfanger
Project

Sustainable energy
Project

Beregning af effektivitet af luftsolfangere
Project

Test facility for air collectors
Project

Udvikling af profileret tagintegreret solfanger
Project

Optimization of solar heating and water heating combisystems applied in buildings
Project

Dansk deltagelse i IEA Task 44: Systems using solar thermal energy in combination with heat pumps
Project

Ydelser for stationære og trackende solfangere
Project

IEA Task 42: Compact Thermal Energy Storage: Material development and System Integration
Project

Forskningsamarbejde mellem forskningsinstitutioner og små og mellemstore virksomheder : Solar/electric heating systems in the future energy system
Project

Solar/electric heating systems in the future energy system
Project
**Solvarmeanlægs energibesparelser, fase 2**
*Project*

**Solvarmeanlægs energibesparelser**
*Project*

**Proof of Concept, PoC, Inlet stratification device**
*Project*

**Solar Thermal Components adapted to common building standards**
*Project*

**Advanced storage concepts for solar and low energy buildings, IEA-SHC Task 32**
*Project*

**NEGST (Next Generation of Solar Thermal Systems)**
*Project*

**IEA Task 32: Advanced storage concepts for solar thermal systems in low energy buildings**
*Project*

**Kombinerede solvarmeanlæg til nemvarme og opvarmning af brugsvand**
*Project: PhD*

**DANISH/SWISS RESEARCH COOPERATION ON SOLAR HEATING SYSTEMS**
*Project*

**Large low flow solar heating system with a smart solar tank and pump**
*Project*

**Solar Energy Center Denmark**
*Project*

**Smart solar tank**
*Project*

**Test methods for solar DHW tanks**
*Project*

**Solar energy systems**
*Project*

**Solar heating systems**
*Project*

**Activities:**

**Building and Environment (Journal)**
*Activity: Research › Peer review of manuscripts*
Syns- og skønserklæring, B-1906-07: Vedr. varmtvandsforsyning til ejerlejlighed - Ejerforeningen Løvparken ff od Ulla og Lasse Sørensen

Activity: Other