

## Thailand – Smart Grid/Energy Efficiency in the Infrastructure

### Business trip to Germany

20<sup>th</sup> – 24<sup>th</sup> June 2016

#### - Program -

Saturday or Sunday	Program	Location
individual	Flight from Bangkok to Frankfurt	<b>Suvarnabhumi Airport</b>
<b>Monday 20<sup>th</sup> June</b>	<b>Program</b>	<b>Location</b>
6.00 – 8.00 a.m	<u>Arrival at Frankfurt</u> Pick-up by Mr. Marius Mehner, German-Thai Chamber of Commerce and by bus company	<b>Airport Frankfurt</b> <u>Meeting Point:</u> tbc
	<u>Walk/Transfer to Fraport</u>	
9.00 a.m.	<b><u>Fraport</u></b> E-Fleet operated by Fraport within the “ <u>Electromobility Alliance</u> ” Topics: - survey of the suitability of e-cars in different service areas - enquiry of optimization possibilities in the electricity supply by demand-adapted, controlled charging - comparison of different charging systems - analysis and improvement of the user acceptance - Input of the knowledge gained in the »Electromobility Alliance«	<b>Fraport AG</b> Frankfurt Airport Services Worldwide 60547 Frankfurt am Main
11.00 a.m.	<u>Bus transfer to the City of Frankfurt</u>	
12.00 a.m.	<u>Lunch</u>	
1.00 p.m.	<b><u>Mainova AG</u></b> Topics: - <u>Smart Grid “iNES”</u> (intelligent local network station, which was developed as a system solution for net monitoring in low voltage systems) --> an economic alternative to conventional network expansion - Presentation of the <u>decentral energy storage concept</u> of a public school (Peak-Shaving-System, reducing of peaks, photovoltaic equipment on the roof of the school building) - sustainable charging infrastructure for electromobility/ The „Modell Frankfurt“: <u>electric charging at parking ticket machines</u>	<b>Mainova AG</b> Solmsstraße 38 60623 Frankfurt am Main
3.00 p.m.	<u>Bus transfer to Stuttgart</u>	
5.00 p.m.	<u>Check-in</u> hotel	<b>Hotel Stuttgart (tbc)</b>

6.00 p.m	Pick-up at hotel lobby by Marius Mehner S-Bahn-ride to Stuttgart downtown	
6.30 p.m	Shared Dinner and get-together <u>Handing out of programmes by bw-i</u>	<b>Schönbuch Bräu</b> Bolzstrasse 10 70173 Stuttgart Tel.: 0711-72230930 info@brauhaus- schoenbuch.de
<b>Tuesday 21<sup>st</sup> June</b>	<b>Program</b>	<b>Location</b>
8.15 a.m	Pick-up at the hotel by bus	<b>Hotel Stuttgart (tbc)</b>
9.00 – 10.30 am	<p><b><u>Information and Networking Event</u></b></p> <p><b>Lectures</b></p> <ul style="list-style-type: none"> <li>- Welcome remarks Presentation “German Energy Solutions Initiative” <u>Baden-Württemberg International</u> Mr. Tobias Meyer</li> <li>- Doing Business Germany-Thailand &amp; the current status of energy efficiency in the infrastructure in Thailand Introduction of the Thai Delegation <u>German-Thai Chamber of Commerce (GTCC)</u> Mr. Marius Mehner</li> <li>- Presentation of SINTEG Programme (window display „Smart Energy – Digital Agenda for Energiewende (energy transition) <u>Smart Grids-Plattform Baden-Württemberg e.V.</u> Dr. Albrecht Reuter</li> </ul> <p><i>alternative</i></p> <ul style="list-style-type: none"> <li>- Sustainable grids “<u>Electricity grids</u>” research initiative of the federal government Dr. Hermann Stelzer</li> </ul>	<p><b>Haus der Wirtschaft Studio A, 3<sup>rd</sup> floor</b> Willi-Bleicher-Str. 19 70174 <u>Stuttgart</u></p> <p>Kepler-Saal</p> <p>Studio A</p> <p>Keplersaal</p>
10.30 – 11.00 am	<u>Coffee break</u>	
11.00 – 12.30 am	<p><b>Lectures</b></p> <ul style="list-style-type: none"> <li>- Grid integration of renewables, electrical planning of wind- und solarparks <u>M.P.E. Moeller &amp; Poeller Engineering GmbH</u> Dr.-Ing. Markus Pöller</li> <li>- Development and support of PV-based stand-alone grids <u>Cdw Stiftungsverbund gGmbH</u> Ms. Sarah Link</li> </ul> <p><i>alternative</i></p> <p><u>Reiner Lemoine Institut</u> Mr. Philipp Blechinger</p>	

<p>12.30 – 2.00 pm</p>	<ul style="list-style-type: none"> <li>- Traffic telematics, traffic information systems, mobile Communication, smart houses <u>Kompetenzzentrum ITS Baden-Württemberg e.V.</u> Prof. Dr.-Ing. Günter Sabow</li> <li><i>alternative</i></li> <li>- Car-Sharing <u>Car2go Deutschland GmbH</u> Mr. Thomas Beermann</li> <li><i>alternative</i></li> <li>- Project ALIS: Aufbau charging infrastruktur Stuttgart and region <u>„Schaufenster Elektromobilität livinglab BWemobil“</u></li> <li>- <u>Buffet-lunch &amp; get-together</u> Get-together with German participants</li> </ul>	
<p>2.15 p.m.</p>	<p>Pick-up in front of the main entrance of “Haus der Wirtschaft” and transfer to Stuttgart-Vaihingen</p>	
<p>2.45 – 4.45 p.m</p>	<p><b>Fraunhofer-Institut für Arbeitswirtschaft und Organisation IAO</b></p> <ul style="list-style-type: none"> <li>- Mobilitäty- und city system-buildup</li> <li>- Elektromobile Systems (urban und interurban charging infrastructures)</li> <li>- Prospective city concepts (Morgenstadt, sustainable quarter concepts, resilient cities) – energy concepts (Micro Smart Grids)</li> <li>- Sharing economy</li> </ul> <p><u>Speech subjects:</u></p> <p>Morgenstadt-Initiative</p> <p>» Urban Futures – Innovations, Strategies and processes for the city of tomorrow«</p> <ol style="list-style-type: none"> <li>1. Living Labs for urban system solutions</li> <li>2. Business models for smart cities und districts</li> <li>3. Innovation-partnerships and strategies</li> <li>4. Flexible Cities – adaptive concepts for building and infrastructure</li> </ol> <p>Common mobility (GeMo)</p> <p>The project GeMo (<a href="http://www.gemo.fraunhofer.de">www.gemo.fraunhofer.de</a>) is a future-oriented-project of Fraunhofer-Gesellschaft. In this framework a consortium of six Fraunhofer-Instituts is developing solutions for the joint use of e-cars.</p> <p>Charging infrastructure in Stuttgart und surroundings</p>	<p><b>Fraunhofer IAO</b> Nobelstr. 12 70569 Stuttgart Prof. Dr.-Ing. Wilhelm Bauer Leitung Morgenstadt-Initiative</p>
<p>5.15 – 6.15 p.m</p>	<p><b>Guided tour</b> in Stuttgart downtown</p>	

07.00 p.m.	<b>Welcome-Dinner</b> on Baden-Württemberg International  Welcome by <u>Ms. Marianne Zorn, Thai Honorary Consul</u> in Stuttgart (mobile: 0172/3421009)	<b>Kwan Kao – Taste of Thailand</b> Ludwigstr. 99 70197 Stuttgart T: 0711/50494374 www.kwankao.de
9.00 p.m.	Transfer back to hotel	<b>Hotel Stuttgart (tbc)</b>

<b>Wednesday 22<sup>nd</sup> June</b>	<b>Programme</b>	<b>Location</b>
8.00 a.m. 8.00 – 10.00 a.m	Pick-up in front of the hotel and Bus transfer to Mannheim	<b>Hotel Stuttgart (tbc)</b>
10.00 – 12.00 a.m	<b>MVV Energie AG</b> Topics: - Virtual Power Plants - Energy management (smart control concepts und energy infrastructure) - Innovatives load- and generation management - implementation in practice ( MVV Energie AG has integrated the solar field Rauenberg (Rhein-Neckar-Kreis) of Wirsol Solar AG, Waghäusel, in its virtual power plant) - presentation results model city Mannheim (MOMA)	<b>MVV Energie AG</b> Luisenring 49 68159 Mannheim
12.15 - 1.30 p.m.	Lunch at canteen	
1.30 – 3.30 p.m.	Transfer to Ostfildern	
3.30 – 5.30 p.m.	<b>ZVEI – Association of electrical engineering and electrical industry</b> Topics: - charging infrastructure for e-mobility - report about the progress of the National Platform Electronic Mobility - Initiative „Energy Efficiency-Network“ - Energy efficiency by process automation	<b>ZVEI e.V.</b> <b>Zentralverband Elektrotechnik- und Elektronikindustrie e.V.</b> Gerhard-Koch-Str. 2-4 73760 Ostfildern
5.30 – 6.15 p.m.	Transfer to Stuttgart Hotel	

<b>Thursday 23<sup>rd</sup> June</b>	<b>Program</b>	<b>Location</b>
8.00 a.m. 8.00 – 10.15 a.m.	Pick up in the hotel Bus transfer to Mindelheim	<b>Hotel Stuttgart (tbc)</b>
10.15 - 12.00 am	<b>Gebrüder Bauer GbR</b> The company offers smart meter and electrical	<b>Gebrüder Bauer</b> Breitenbergstr. 2

	charging stations. The portfolio includes: - electrical charging pumps und wallboxes for e-mobiles - charging wallboxes for e-Bikes - Authorization- and accounting procedures as well as test devices	87719 Mindelheim
12.15 – 1.45 p.m.	Lunch	
1.45 – 3.00 p.m.	Transfer to Munich	
3.00 – 5.00 p.m	<b>Siemens Aktiengesellschaft; Division: Smart Grid &amp; Energy Automation</b>  Topics: - Smart Grid solutions - Smart Grid Software Solutions (Distributed Energy Management System) - Monitoring und Diagnosis - Smart Metering - Power Quality and Measurements - Virtual power plants for effective generating- and load management with decentral energy-resources	<b>Siemens AG</b> Wittelsbacherplatz 2 80333 München
5.00 p.m.	<u>Bus-transfer</u> to hotel	
5.30 p.m	Check in hotel	<b>Hotel tbc</b>

Friday 24 <sup>th</sup> June	Program	Location
8.30	Pick up by bus Bus transfer from hotel to trade fair INTERSOLAR	<b>Hotel tbc</b>
9.00 a.m. – 13.00 p.m.	<b>Visit of INTERSOLAR</b> <u>Guided tour</u> with focus on infrastructure - reception at the Baden-Württemberg International booth	
1.15 -2.00 p.m	Pick up by bus And transfer to Claudius-Keller-Straße	
2.00 – 3.30 p.m	<b>EnerNOC/ Entelios AG</b> Supplier of so-called "Powerful Energy intelligence Software" (demand response management /load management)  EnerNOC enables utilities, commercial, institutional and industrial clients efficient energy management with a comprehensive Series of Demand Response-services to reduce the electricity demand, increase of the energy efficiency, improvement of the energy-supply transparence in the market competition and for reducing of emissions. EnerNOC Utility Solutions™ support hundreds of utilities and network	<b>EnerNOC/ Entelios AG</b> Claudius-Keller-Str. 3c 81669 München

	operators worldwide with the compliance of their demand Response-targets with several energy management-applications, e.g: DemandSMART™ for a comprehensive load management; EfficiencySMART™ for continuing energy savings; SupplySMART™ for Energy price- and risk-management.	
3.30 – 4.15 pm	Transfer to “Am Blütenanger”	
4.15 – 5.45 p.m	<p><b>Research Center for the Energy Sector e. V.</b></p> <ul style="list-style-type: none"> <li>- mobility</li> <li>- Industrial facilities and processes</li> <li>- generation and market</li> <li>- storage and grids</li> <li>- resources und climate protection</li> <li>- buildings and appliances</li> </ul> <p>Prospective lectures:</p> <ul style="list-style-type: none"> <li>- Sun2Car@GAP – own consumption of photovoltaic energy by e-mobiles</li> <li>- energy systems of the future</li> <li>- Merit Order network expansion - 2030 (MONA 2030)</li> <li>- comparison across systems regarding net-optimizing measures</li> <li>- Smart Grids: Innovation or already standard?</li> <li>- power plant of the 21st century - E3</li> <li>- Technical requirements regarding new power plants in the field of decentral electricity generation with combined heat and power-systems and renewable energies</li> </ul>	<p><b>Forschungsstelle für Energie-wirtschaft e. V.</b> Am Blütenanger 71 80995 München</p>
5.30 – 6.30 p.m	Transfer to Munich Airport	
individual	Flight from Munich to Bangkok	

Mobile numbers:

Bw-i, Katja Lison: 0172/7402006

GTCC, Marius Mehner: + 66 (0) 81 843 9440

Interpreter: Dirk Heidersbach: 01578/3843266

Hassler Reisen, bus driver: tbc

Emergency Call: 112