

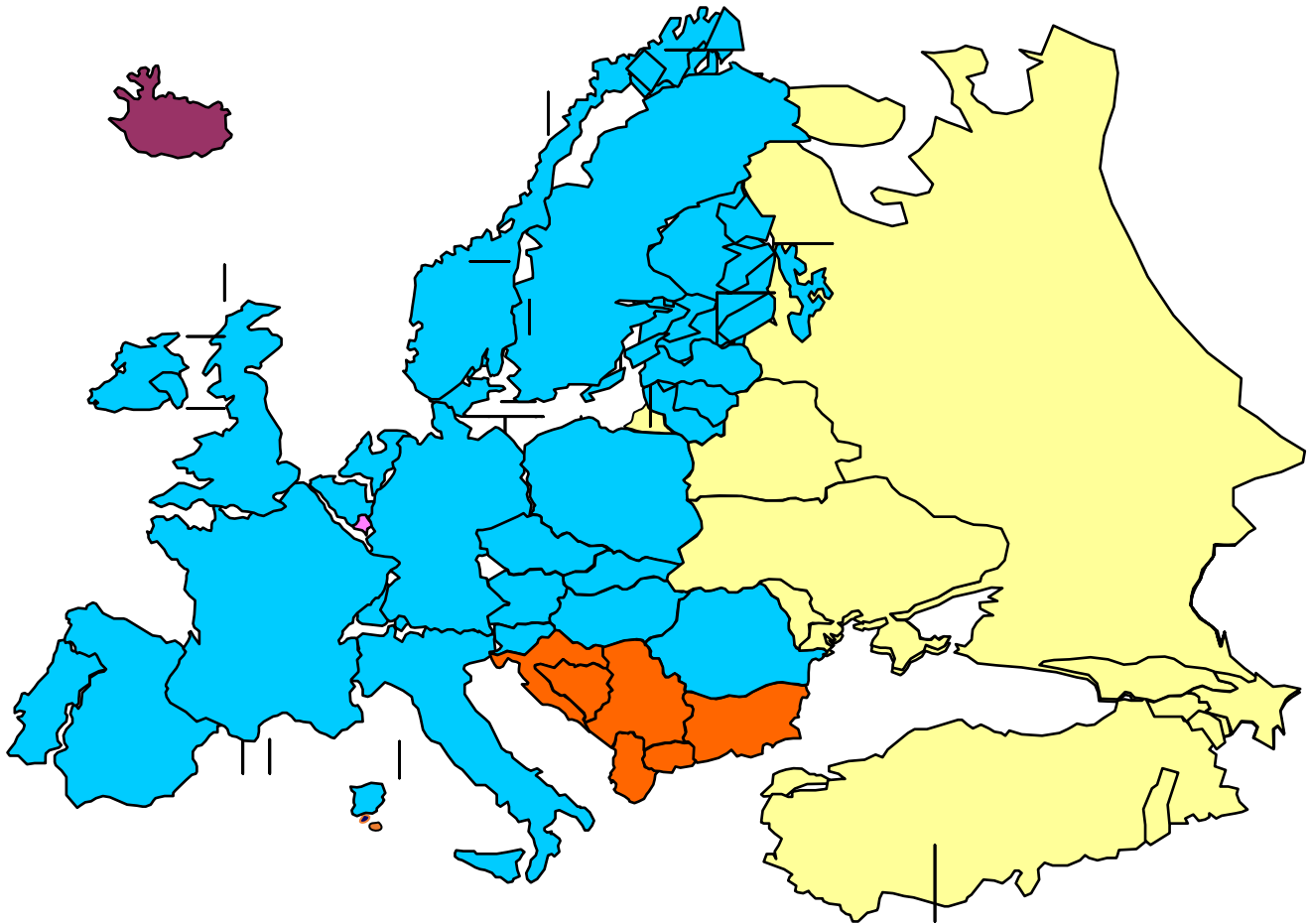


USAID
FROM THE AMERICAN PEOPLE

SARI/EI

IRADe Integrated Research and
Action for Development

SOUTH ASIA REGIONAL INITIATIVE FOR ENERGY INTEGRATION (SARI/EI)
STUDY TOUR TO EUROPEAN REGIONAL POWER MARKET
AMSTERDAM & PARIS
13th to 19th July, 2014



Funded by
U.S. Agency for International Development (USAID)
Under the:
South Asia Regional Initiative for Energy Integration (SARI/EI)
Organised by
**Integrated Research and Action for Development (IRADe) in association with
Indian Energy Exchange limited (IEX)**



INTRODUCTION:

Over the last two decades, the South Asian Region (SAR) has grown at an average annual GDP rate of six percent making it one of the fastest growing areas in the world. The region has a variety of energy resources at its disposal with maximum potential coming from hydropower resources (combined hydro potential is 350 GW). Yet, despite its potential and the impressive macroeconomic growth in the SAR, the South Asian power sector has not kept pace with the demand and the region continues to experience chronic power shortages and poor power quality. Systematic deployment of this potential along with an investment in infrastructure and a market-based electricity trade system can help in harnessing the untapped resources. Currently, compared to its potential, limited cross-border power trading is taking place between India-Bhutan (1300MW), India-Bangladesh (500MW) and India-Nepal (150MW) with a total trade of around 2000MW (all of which are on bilateral basis).

The lack of harmonized/coordinated laws, policies and regulations as well as the absence of a regional power market in South Asia are the key factors hampering the growth of cross border electricity trade (CBET) in the region. In the South Asian context, the risks associated with forging an intraregional, cross-border electricity project would be greatly minimized if each participating country adopts complementary national energy policies and develops a harmonized/coordinated laws, policies and regulations for CBET. SARI/EI has constituted three task forces comprising of representatives from the governments of different South Asian Country (SAC) to address the issues of: harmonization/coordination of laws, policies and regulations; advancement of physical transmission interconnections, and; formation of South Asian Market for Electricity (SAME).

As the process of regional energy cooperation is taking shape in South Asia, there is a need to familiarize the task force members and representatives from different South Asian governments with the best practices in other regional power markets; understand the evolutionary process of harmonization of legal/regulatory/policy issues; and learn the design and operations of the other regional power markets. Visiting the European power market, which is currently one of the most successful power market in the world, will help the participants to understand the transition from bilateral to multilateral trading and trading through the regional energy market.

OBJECTIVE OF THE STUDY TOUR:

The study tour, as part of USAID's SARI/EI program, aims to facilitate knowledge transfer and build the capacity of the task force members and other representatives from the SAC by giving them an opportunity to obtain first-hand knowledge and experience the process of evolution of European regional power markets by dwelling upon the legal and regulatory issues, institutional governance, operational and market aspects.

The study tour is being undertaken by the members of task forces constituted under the program, other senior government officials from different SAC and representatives from the SARI/EI secretariat (IRADe Project Team). The study tour will include a combination of class room training as well as site visits. It is being organised by IRADe in association with the Indian Energy Exchange (IEX), a leading power exchange in India

The main objective of the study tour:

1. Understand the legal, regulatory and operational structure of the European regional power markets.
2. Understand and learn from the process of evolution of European regional power markets and regional energy cooperation in Europe.
3. Learn and understand the organizational, governance and institutional arrangements of the European regional power markets and their different roles and responsibilities.
4. Understand the process of harmonization of the legal, regulatory, institutional and operational aspects of power trade among participating countries and development of common rules to facilitate cross-border transfers of energy and transmission services, etc.
 - a. Lessons learned from the success story of European regional power markets.
 - b. Challenges and constraints faced during the implementation stage.
5. Understand the existing supply, demand, as well as transmission constraints and trading arrangements of the European regional power markets.
6. Learn and assess the approaches and strategy adopted by European regional power markets for attracting investments through competitive electricity markets.
7. Assess and understand various power market regulation and role of regulators in power trading/exchange.
8. Understand the power exchange and various products available in the exchanges, markets for renewable energy in the European power market etc.
9. Learn techniques for cross border transmission allocation, electricity market operation, managing electricity markets, managing transmission system congestion, power trading strategies, pricing mechanisms, open access tariff structures, etc.
10. Site visits to system operators, exchanges and power utilities, etc. to gain hands-on knowledge and experiences.

OUTPUTS

- ✓ A comprehensive trip report including key learnings and the recommendations for the implementation of a regional market and other energy products (if applicable) in the South Asian context.
- ✓ Trip report appendix including presentations, description of the site visits and list of contacts.
- ✓ Presentation to the PSC and task force members and USAID by SARI/EI secretariat (IRADe Project staff) on key learnings and outcomes.

EXPECTED OUTCOMES:

- ✓ Informed participants and task force members who will use the learnings and understanding from the study trip (market evolution, process adopted for harmonization of legal/regulatory/policy aspects, institutional structure, etc.) in the activities of the task forces to promote regional energy cooperation in South Asia.
- ✓ Informed task force members who will use the learnings on the design and operation of the European regional power market for creation of a regional power market in South Asia.

AGENDA

DAY 1 (13.07.14), AMSTERDAM

16:00 Onwards	Canal Tour of Amsterdam, Welcome Dinner and Introduction to the Study Tour
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DAY 2 (14.07.14), AMSTERDAM

	Welcome address by Rajesh K. Mediratta, Director (BD) IEX Introductory Remarks by V.K. Kharbanda, Project Director, IRADe
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09:45-11:00 Hrs	<p style="text-align: center;">Session -1: Evolution and Integration of European Power Markets Speaker: Mr. Bert Den Ouden, Former CEO, APX Group</p> <p>This session will cover :</p> <ul style="list-style-type: none"> • The process of evolution of European regional power markets and regional energy cooperation in Europe. • Legal, Regulatory and Operational structures of the European regional power markets. • Organizations, governance and institutional arrangements of European regional power markets & their roles and responsibilities.
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11:00-11:15Hrs	Tea/Coffee Break
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11:15-13:00Hrs	Session 1 continues
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13:00-14:00Hrs	Lunch
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14:00-15:15Hrs	<p style="text-align: center;">Session 2: Challenges & Solution : Integration of European Power Markets Speaker: Mr. Bert Den Ouden, Former CEO, APX Group</p> <p>This session will cover :</p> <ul style="list-style-type: none"> • Process of harmonization of the legal, regulatory, institutional and operational aspects of power trade among European countries and developing coordination and common rules to facilitate cross-border transfers of energy and transmission services, etc. • Constrained faced during process of harmonization. • Lessons learnt from the success of legal, policy and regulatory harmonization for formation of European regional power markets • Approaches and strategy adopted by European Regional Power Markets for attracting investments through competitive energy markets. • Learn and understand the EU roadmap for creation of Internal Electricity Market (IEM) and current status of IEM . • Probable model for South Asia and road map for harmonization of the legal, policy and regulatory issues in south Asia.
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15:15-15:30Hrs	Tea/Coffee Break
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15:30-16:30Hrs	Session 2 continues
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DAY 3 (15.07.14), AMSTERDAM	
09:30–11:00Hrs	<p>Session 3: Power Exchange and Various Products Speaker: Mr James Matthys, COO, APX</p> <p>The session will cover</p> <ul style="list-style-type: none"> • Introduction to Power Market at National level. • Existing supply, demand, as well as transmission constraints and trading arrangements. • Access and various power market regulation including role of regulatory agencies in structuring and monitoring power exchanges. • Spot Market. • Other Products in Electricity market. • Electricity market operations, managing energy markets and power trading strategies and pricing mechanisms. • Reserves/Ancillary & Balancing Market. • Basic Concept of Clearing Corporation <ul style="list-style-type: none"> ○ Roles and responsibilities ○ Rules and procedures ○ Risk Management
11:00-11:15Hrs	Tea/Coffee Break
11:15-13:00Hrs	Session 3 continues
13:00-14:00Hrs	Lunch
14:00-15:30Hrs	Session 3 Continues
15:45 Hours	Participants to assemble and be seated in the coach for transfer to APX office
16:00 -17:15 Hrs	<p>Site Visit 1: APX APX Group (Power Exchange) (PX) Atlas Arena Amsterdam, Australia Building, Hoogoorddreef 7, 1101 BA, Amsterdam (Participants will be given a short 30 minute presentation followed by a tour to the APX operations floor to understand the working of the Exchange) Presentation by</p>
DAY 4 16.07.14, AMSTERDAM	
09:30–11:15Hrs	<p>Session 4: Certificate Market for Renewable Power in Europe Speaker: Max van Meer, Managing Director, STX Services</p> <p>The session will cover :</p> <ul style="list-style-type: none"> • Certificate Mechanism in Europe (REC/ROC). • Voluntary REC Market
11:15-11:30Hrs	Tea/Coffee Break
11:30 –13:15Hrs	<p>Session 5: Integration of Renewable Power in Europe Speakers: Guadalupe Vazquez Gonzalez, Renewable Energy Manager, Acciona Energia</p> <p>The session will cover :</p> <ul style="list-style-type: none"> • Renewable Energy Scenario in Europe

	<ul style="list-style-type: none"> • Different markets for Renewable Energy Generation in different European countries. • Solution for Wind and Solar generators.
13:15 -14:00 Hrs	Lunch
14:00 -15:30 Hrs	<p>Session 6: Electricity Derivatives Speaker: Paul Stefiszyn, Director, ESP Consulting</p> <p>The session will cover :</p> <ul style="list-style-type: none"> • Understanding future options, Contracts for Difference (“CfDs”) with case study • Detailed understanding of Margining principal • Detail understanding of Settlement Period • Derivative as hedging tool • Understanding related concepts like cascading of futures contract etc.
DAY 5 17.07.14, AMSTERDAM	
07.00 Hrs	Leave for the Site Visit 2 destination by coach
09:30–12:00Hrs	<p>Site Visit 2: TenneT(100 KM from Hotel,TenneT TSO B.V.,Utrechtseweg 310 , Arnhem, Postbus 718 , 6800)</p> <ul style="list-style-type: none"> • Presentation by: Mr Ben Voorhost, COO, TenneT • Presentation on “ Balancing, Security of Supply, National Control Centre “ by Mr Jaap Hagen Department Head of National Control Centre of TenneT. • Presentation on ‘ Facilitating the electricity market by TenneT ‘ by Mr.Thomas Donders
12:00- 13:00 Hrs	Lunch
13.00-15.30 Hrs	Travel back to Amsterdam Central Station by coach
15:30Hrs	Arrive at Amsterdam Central Station
17:00-20:35Hrs	Travel to Paris
20:35Hrs	Arrive at Paris NORD Station
21:00 Hrs Onwards	Dinner hosted by IEX
DAY 6 18.07.14, PARIS	
09:30 -13:00Hrs	<p>Site Visit 3: EPEX Spot 5 boulevard Montmartre • 75002 Paris (France)</p> <ul style="list-style-type: none"> • Presentation on “EPEX Spot : A power Exchnage at the Heart of Europe: Our role in Wholesale Market “ by Dr. Sandrine Wachon , Head of International Business Development,EPEX Spot,Paris , France. <p>Site Visit 4: PowerNext 5 boulevard Montmartre • 75002 Paris (France)</p> <ul style="list-style-type: none"> • Presentation on “PowerNext “ by Jean-Pierre Goux, Deputy CEO, Powernext, Paris , France. <p>Presenation by the Jonas Tornquist, Head of Economics & Regulation, EDF</p>
13:00–14:00 Hrs	Lunch

14:00 –16:30Hrs	Site Visit 5: RTE France 1Terrasse Bellini TSA 41000,92919 LA DEFENCE Cedax France +33 (0) 141 021000 <ul style="list-style-type: none"> • Presentation on“ European electricity market : evolutions and challenges“by RTE France • Presentation on Electricity markets, cross-border capacityallocation and the role of RTE“ by Galileo BARBIERI,RTE France
16:30–18:00Hrs	Site Visit 6: Alstom Grid 51, Esplanade du Général de Gaulle,92907 La Défense Cedex France Tel: +33 (0)1 73 03 76 74 <ul style="list-style-type: none"> • Presentation on “ Overview of electricity markets“ by Eric Goutard, ALSTOM
DAY 7 19.07.14, PARIS	
10:00 -12:00Hrs	Study tour Sum-up Feedback session with the participants

Bert Den Ouden, Former CEO, APX Group



With expertise in the Energy Markets and experience of over 20 Years, Mr. Bert has held various positions in his illustrious career. He joined Berenschot on 1stNovember, 2013 as Managing Director and is jointly responsible for creating the Energy and Sustainability business unit. Berenschot is a well-established consultancy with 75 years of experience and more than 350 employees. He has been appointed as independent General Director at Flexible power Alliance Network (FAN) and also chairs the board of the Alliance. Prior to Berenschot, Mr Bert was the CEO of APX-ENDEX and APX from 2008 to 2013. He was also with the APX Energy Exchange, where he was General Manager since its foundation in 1999. During his tenure, the exchange grew by acquiring British gas and power exchanges, launching gas exchanges in the Netherlands and Belgium, followed by integration of the gas and power derivatives exchange ENDEX in 2008 and the merger with the Belgian power exchange Belpex in 2010. He played a pivotal role in the integration of European electricity markets through the Market Coupling mechanism. He has also worked for the Energie-Nederland sector association and for the Ministry of Economic Affairs where he was involved in various activities, such as energy efficiency, decentralised energy production and the liberalisation of the energy market.

James Matthys-Donnadieu – COO of APX Group and CEO Belpex



James Matthys-Donnadieu currently works as the COO of APX Group and CEO Belpex. Previously James Matthys-Donnadieu has worked at the Belgian system operator Elia and the Belgian power exchange Belpex. Starting as a Product Manager at Elia, he participated in the set-up of Belpex in 2005 where he later became in charge of product and market development. He returned to Elia in 2010 to head the European Market Integration department. In this period, he was also the chairman of the steering committee of the Central Western Europe Regional Group, which is the forum where Transmission System Operators develop and coordinate the different market integration and security of supply tasks for that region. James Matthys-Donnadieu holds a Master in Business Economics degree from the University of Antwerp and a Master in Business Administration degree from VlerickLeuvenGhent Management School.

Alexander Dusolt, Market Advisor, ENTSO-E



Mr. Alexander Dusolt currently works at ENTSO-E and His role at ENTSO-E primarily focuses on: 1) Ancillary Services; 2) Electricity Balancing Network Code; and 3) Long Term Market Design. He has previously worked with TenneT TSO GmbH, Bayreuth in the department of Customers & Markets where he majorly worked on: coordination and development of international and national electricity markets (capacity auctions, market coupling, intraday); designing and implementing market improving measures in interdisciplinary internal and external cooperation; and representing the company in international working groups within transmission system operators, power exchanges and regulators.

Max Van Meer, Managing Director, STX Services



Max van Meer started his career at Fortis Bank NV in 2003 in a management traineeship. He worked as an Operational Auditor in the Financial Markets, did project management for new offices in Denmark, Sweden, Norway and China and worked as an account manager for Corporate lending and special products. Since April 2009, Max van Meer is working as Head of Green Desk for STX Services where he is responsible for the Green Energy Certificates desk with a focus on target compliance

markets and the European voluntary market. At present, Max van Meer is Chairman RECS Netherlands and board member for RECS International. Mr Van Meer has done one-year Executive Master in Internal Auditing from the Amsterdam Graduate Business School and Masters in International Financial Economics from the University of Amsterdam.

**Guadalupe Vazquez Gonzalez, Renewable Energy Manager,
Acciona Energia**



As the energy manager in Acciona Energia, her key role includes coordination and management of International Energy Management activities, pursuing, negotiation and search management of PPAs, alternative structured hedges and other Commercial Contracts (vg RECs, GCs, CERS, EUA, etc) and create and maintain relationships with brokers and counter parties to manage portfolio. Additionally, she has been involved in marketing of environmental products, including market registrations for EPEX Spot (Germany, France), Capacity Auctions, follow up of Regulatory developments. She has collaborated with the Regulatory team to assess regulatory, technical, and market issues in an effort to evaluate competitive dynamics of various resource options.

Site Visits

Site Visit no 1:- APX:

APX is Europe's premier provider of power exchange and clearing services for the wholesale market, operating transparent platforms in the Netherlands, the United Kingdom and Belgium. APX provides exchange trading, central clearing and settlement and benchmark data and industry indices distribution services to over 150 members from more than 15 countries. Belpex SA of Belgium is a 100% subsidiary of APX.

As an experienced and innovative European energy exchange, APX offers an efficient, transparent and secure electronic trading environment and provide market data for use by traders, energy suppliers and energy-intensive industries. In addition, APX promotes market innovation and creates new opportunities by working closely with its members, Transmission System Operators (TSOs) and other power exchanges.

APX shares the vision of the EU for the realisation of a single, integrated market. APX therefore focuses on delivering an integrated electricity market through its involvement in projects such as the North-Western European Price Coupling and the establishment of an integrated European Intraday market. It will remain a leading force in the design process of market coupling and act as one of its daily operators.

There will be a half hour presentation by the officials of APX on the working of the Exchange followed by a visit to the operations of Exchange.

Site Visit no 2:- TenneT B.V.:

TenneT B.V. is the national electricity transmission system operator of the Netherlands, headquartered in Arnhem. Controlled and owned by the Dutch government, it is responsible for overseeing the operation of the 380 and 220 kV high-voltage grid throughout the Netherlands and its

interconnections with neighbouring countries. It is additionally responsible for the 150 kV grid in South Holland. In Germany, it is one of the four transmission system operators operating through its subsidiary TenneT TSO GmbH. As of 2006, it operates 3,286 km of lines and cables at 150 kV and above, connecting at 51 high-voltage substations. Peak demand for 2006 was 14,846 MW. The sole shareholder is the Dutch Ministry of Finance.

There will be a presentation by the COO of TenneT and the department head of the National Council Centre of TenneT explaining the working and role of the Transmission Operator in Europe followed by a visit to the operations floor(control centre) ending with a Q&A session.

Site Visit no 3:- EPEX SPOT SE:

EPEX SPOT SE operates the power spot markets for short-term trading in Germany, France, Austria and Switzerland, with Germany and Austria forming one price zone. These countries account together for about one third of the European power consumption. EPEX SPOT counts over 200 members. EPEX SPOT is one of the stakeholders in several market coupling initiatives, such as the market coupling in Central Western Europe (see below) and the Interim Tight Volume Coupling with the Nordic markets via the European Market Coupling Company EMCC.

There will be a short presentation by the EPEX officials covering the European power market fundamentals, EPEX SPOT in a nutshell, Markets and Products, challenges faced in the European power market followed by a visit to their operations floor.

Site Visit no 4:- Power Next:

Power next incorporated in 2001, manages several complementary, transparent and anonymous energy markets: Power next Gas Spot and Power next Gas Futures were launched on November 26, 2008 in order to hedge volume and price risks for natural gas in France from within-Day to the next three gas seasons. Since 1st December 2009, Power next Gas Spot also allows the Transmission System Operator GRTgaz to progressively cover parts of its daily balancing needs on the market. EPEX Spot, based in Paris and owned equally by Power next and by EEX, the German energy organized market, was launched on January 1st 2009 and facilitates, 365 days a year, the hourly balancing of physical power delivered the following day on the French, German/Austrian and Swiss hubs. In April 2009, Power next contributed the French power derivatives to EEX Power Derivatives, a company dedicated to European power derivatives, based in Leipzig, against a 20 percent equity stake in this company.

There will be a presentation by the officials giving the Overview of Power next, Markets and products and will also elaborate on the PEGAS: POWERNEXT-EEX Cooperation.

Site Visit no 5:- Réseau de Transport d'Électricité (Electricity Transmission Network):

Réseau de Transport d'Électricité (Electricity Transmission Network), usually known as RTE, is the electricity transmission system operator of France. It is responsible for the operation, maintenance and development of the French high-voltage transmission system, which at approximately 100,000 kilometres (62,000 mi), is Europe's largest. RTE is a wholly owned subsidiary of the partially public-owned French generator Électricité de France (EdF), headquartered in Paris. RTE's transmission system operates at voltages of 63 kV, 90 kV, 150 kV, 225 kV and 400 kV.[6] RTE deems the 63 to 150 kV circuits to be "high voltage" and the 225 kV and 400 kV "extra high voltage".

Participants will be given a brief overview of the working of the transmission operator of France followed by a Q&A session.

Site Visit no 6:- Alstom Grid:

Alstom Grid is one of the power grid companies who design, manufacture, supply and support of products and services for power transmission and smart grid technology including software for grid and market operations.

Participants will be given a brief overview of the working of the company followed by a Q&A session

LOGISTICAL DETAILS

Travel Advisory covering Hotel details including addresses, transfer from and to the airports, Weather information and Emergency contact numbers in Europe is attached in the Annexure 1.

ABOUT SOUTH ASIA REGIONAL INITIATIVE/ENERGY INTEGRATION:

Over the last two decades South Asia has been one of the fastest growing regions in the world, with an average annual growth rate of 6% as measured by GDP per capita. Yet despite this impressive macroeconomic growth, the energy sector in the region has not been able to keep pace, and continues to experience chronic problems of shortage of supply and poor quality of service. South Asia's energy security dilemma is one of the signal energy development challenges of the 21st century critical to the economic future of almost 1.5 billion people and the political future of one of the world's most volatile regions. Given this dilemma the only long-term solution is the sustained increase in regional energy cooperation among South Asian nations. South Asia Regional Initiative/Energy's (SARI/E) role over the past decade in advocating energy cooperation in South Asia has transited to the next phase of advancing regional energy integration and Cross-Border Energy Trade in eight South Asian Countries (Afghanistan, Bangladesh, Bhutan, India, Pakistan, Nepal, Sri Lanka & Maldives). This new phase titled South Asia Regional Initiative for Energy Integration (SARI/EI) is designed to build upon SARI/Energy's successful initiatives of the past to move South Asian countries towards increased regional energy security. The program will address policy, legal, and regulatory issues related to energy in the region; promote transmissions interconnections; and work towards establishing a regional market exchange for electricity.

Integrated Research and Action for Development (IRADe) through a competitive process was selected by U.S. Agency for International Development (USAID) for the implementation of the South Asia Regional Initiative for Energy Integration (SARI/EI) program. During this five year program (2012-2017), SARI/EI programme will work to promote integration of energy systems and enhance Cross-Border Energy Trade (CBET) among the participating South Asian countries.

PROGRAM MESSAGE:

The main message of the program is to "Promote integration of Energy Systems and enhance Cross-Border Energy Trade (CBET) among the South Asian countries by focusing on the following three development outcomes for overall socio-economic development of the region:

1. Harmonize Policy, Legal and Regulatory Issues:

The key result of the Harmonization of Policy, Legal and Regulatory Issues component is to create the enabling systemic conditions for a sustainable market for investment and implementation of Cross-Border Energy Trade.

2. Advance Transmission System Interconnections:

The key result of the Advancement of Transmission System Interconnections component is to create the enabling, systemic conditions for a sustainable market for investment and implementation of sub-regional bilateral transmission interconnections beginning with the eastern sub-region of South Asia.

3. Establishment of South Asia Regional Electricity Markets:

The key result of this component on Establishment of South Asia Regional Energy Market is to create the enabling and systemic conditions for a sustainable market for energy trading and exchange among the South Asian countries.

The overarching objective of the South Asia Regional Initiative for Energy Integration (SARI/EI) program is to develop a common template for technical and commercial aspects of power exchange among the South Asian countries. It intends to create the right enabling environment to support the establishment of a South Asian electricity market, gain consensus and support from the key decision makers and stakeholders in the South Asia region.

US Agency for International Development (USAID):

The US Agency for International Development (USAID) is an independent government agency that provides economic, development, and humanitarian assistance around the world in support of the foreign policy goals of the United States. USAID's mission is to advance broad-based economic growth, democracy, and human progress in developing countries and emerging economies. To do so, it is partnering with governments and other actors, making innovative use of science, technology, and human capital to bring the most profound results to a greatest number of people.

Integrated Research and Action for Development (IRADe):

IRADe is a fully autonomous advanced research institute, which aims to conduct research and policy analysis and connect various stakeholders including government, on-governmental organizations (NGOs), corporations, and academic and financial institutions. Its research covers many areas such as energy and power systems, urban development, climate change and environment, poverty alleviation and gender, food security and agriculture, as well as the policies that affect these areas.

INDIAN ENERGY EXCHANGE (IEX):

INDIAN ENERGY EXCHANGE LTD. (IEX) is India's premier power trading platform. Providing a transparent, neutral, demutualized and automated platform for physical delivery of electricity and Renewable Energy Certificates (REC), IEX enables efficient price discovery and price risk management for participants of the Electricity and REC market. IEX have the requisite expertise, in relation to organizing the study tour, as it is regularly organizing study tours on Regional Power Markets. IEX is playing a key role in setting up the common market for trading power among SAARC nations.

CONTACT DETAILS:

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SARI/EI

SOUTH ASIA REGIONAL INITIATIVE FOR ENERGY INTEGRATION (SARI/EI)

STUDY TOUR TO EUROPEAN REGIONAL POWER MARKET

AMSTERDAM & PARIS

13th to 19th July, 2014

Participants Feed Back form

Dear Participant,

We wish to thank you for your participation in the “Study tour to European regional power market” conducted under USAID's South Asia Regional Initiative for Energy Integration (SARI/EI) program. Your participation in this program is an important contribution for advancing cross border electricity trade in South Asia and harmonization/coordination of laws, policies and regulation and formation of South Asian Market for Electricity (SAME). The questions below are regarding the above study tour organized by IRADe through IEX from 13th to 19th July, 2014. The information and comments on this form will be treated confidentially, but will immensely help us in planning and designing better study tours under the (SARI/EI) program. Thank you for your cooperation.

1. About You

1.1. Name: 1.2. Designation/Organization:

1.3. What are the key work areas of your organization?

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.....

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1.4. How many persons work in your organization?.....

1.5. What are your organization's role in Cross Border Electricity Trade and in Power market in South Asia?

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.....

2. Rating the Program

Please tick () in the appropriate box: **4 outstanding, 3 very good, 2 satisfactory, 1 needs improvement**

Study Tour Rating	1	2	3	4
Class room Trainings				
Relevance to your organization's work area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Relevance to SARI/EI program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Structure of the study trip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Topics covered in the study trip	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of Training and Reading materials provided	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality of Speakers/Trainer				
Mr. Bert Den Ouden	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mr James Matthys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Guadalupe Vazquez Gonzalez	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Max van Meer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Paul Stefiszyn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Jaap Hagen	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mr Ben Voorhost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Site Visits

Site Visit No-1: Meeting with APX Group (Power Exchange)

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Site Visit No-2: Meetings with System Operator –TenneT

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Site Visit No-3: Meetings with EPEX SPOT SE

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Site Visit No-4: Meetings with Power Next (Gas)

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Site Visit No-5: Meetings with Réseau de Transport d'Électricité

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Site Visit No-6: Meetings with Alstom Grid

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3. Please provide your observations and comments regarding the study tour, training sessions and site visits

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4. Did you find any particular session of particular interest? If so, please provide your comments

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5. What has been the key learnings/take away from the study tour?

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6. How will you benefit in the short to medium term with the information obtained through this study trip

Short-term	Medium-term

7. Do you have any suggestions /areas of improvements for future study tour under the SARI/EI program

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ANNEXURE 1: LOGISTICAL, TRAVEL SCHEDULE AND TRAVEL, ADVISORY DETAILS:

1. Hotel and Venue details

a. In Amsterdam

<p>Conference Venue:</p>	<p>Van Gogh Hall Hotel NH Amsterdam Centre <i>Stadhouderskade 7</i> Amsterdam, Netherlands Tel: +31 20 685 1351 Reservations: +44 (0)870 80 71235</p>
<p>Stay in Hotel:</p>	<p>Hotel NH Amsterdam Centre <i>Stadhouderskade 7</i> Amsterdam, Netherlands Tel: +31 20 685 1351</p>

About NH Amsterdam:

The luxurious four-star NH Amsterdam Centre hotel is conveniently located in the heart of Amsterdam. It is right across from the lively Leidse Square in the fashion and museum district, an area brimming with entertainment, dining and nightlife options. Characteristic canals and the top museums are just a short stroll from the hotel, as is the exclusive shopping street and the Vondelpark, a sprawling urban green space. The hotel is also within walking distance of the Heineken Brewery and the world famous Rijksmuseum, featuring a slew of Dutch masterpieces, including Rembrandt's "The Night Watch". The Museumsquare, home to several museums including the Van Gogh Museum, is just a ten-minute walk away from the NH Amsterdam Centre. The NH Amsterdam Centre hotel features 232 stylish standard and superior rooms as well as two elegant suites.



Enjoy the best of the traditional Italian gastronomy and experience the authentic Italian atmosphere. The Lounge & in the lobby of the hotel is the perfect place to plan your day or unwind after seeing the sights. Relax with a coffee or cocktail while enjoying the views of the bustling Stadhouderskade and Leidse Square. The hotel is within a three-minute walk to all tram connections and it offers direct airport shuttle service (surcharge). Plus, their knowledgeable staff is available to assist you with canal tour bookings and museum tickets. The NH Amsterdam Centre hotel offers a relaxing Wellness Center and state-of-the-art fitness centre, which are the perfect ending to your busy day.

b. In PARIS

Stay in Hotel:	<p style="text-align: center;">Novotel Paris <i>17 Porte d'Asnières</i> <i>34 Avenue de la Porte d'Asnières, 75017 Paris, France</i> <i>Phone: +33 1 44 40 52 52</i> <i>Email: h4987-re@accor.com</i> <i>Hotel code: 4987</i></p>
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About Novotel Paris:

The 4-star Novotel Paris 17 hotel is close to the Arc de Triomphe and Porte Maillot. Access to Paris city center by metro (lines 3 & 13 -875 yards [800m] away bus (53 & 341 - 22 yards [20m] away) or RERC. The hotel offers air-conditioned and soundproofed rooms with free WIFI, a restaurant, bar, video games area, private car park (paying) and 6 meeting rooms, making the hotel ideal for business trips or vacations as a couple or with family.



IMPORTANT TRAVEL ADVISORY:

Before you leave please check

- Valid passport
- Visa documentation
- Invitation letter
- Pre departure materials with the contact information
- All of your flight boarding passes and luggage claim.
- All the participants should carry Health and accident Coverage Insurance policies.
- All participants are requested to carry the required medicines in carry on luggage at all the time and have a two week supply before departing. Europe pharmacy visit are very expensive without private insurance policies.
- All participant must carry their passport for during the site visit

Note: In case of flight delay/missed flights (from India to the Europe) please inform Nitin Sabhiki immediately. This will help in making alternate arrangements for airport pick up.

2. Venue and Lodging:

The Meeting venue is NH Amsterdam Centre at Amsterdam and Hotel Novotel Paris at Paris. We have also made arrangements for your lodging at the same hotel. The check in date is 13th July and check out date 20th July 2014. Your lodging would be paid by Indian Energy Exchange Limited.

3. Airport Pickup and Drop:

Airport pickup and drop at Amsterdam and Paris has been arranged by us. Please look for a placard with your name (or for the group) at the arrival gate of the airport. Drivers will be present at the airport with the placard.

Local Travel Coordinator for airport pick-up and site visits (Amsterdam) please contact Mr. Ronald Van Megen, Tel: +31624966318

Local Travel Coordinator for airport drop and site visits (Paris): please contact .Mr. Nitin Sabikhi, Tel: +44 7726685844

4. Details of Meals and transportation Arranged:

Your stay includes complimentary breakfast provided by the hotel. The rest of the meals would have to be paid by you from the per diem provided by us. Travel to site visits has been arranged by us, any other local travel would be at your own expense. You are requested to please clear any other amounts due to the hotel before checking out.

5. Incidental expenses (if applicable):

Please note that the per-diem is provided to cover all other expenses including laundry, room service, telephone charges or any other incidental expenses. All the extra expenses incurred at the hotels (such as personal phone calls, room service, etc) shall have to be paid individually by the participants. You are requested to please clear any other amounts due to the hotel before checking out.

6. Per-diem distribution:

As per the IRADe policy, per diem will be handed over to you at the meeting venue. **For the purpose of per dim distribution, you are required to provide your original boarding pass, receipt of visa, insurance fees and your visiting cards.**

IMPORTANT: PLEASE KEEP YOUR BOARDING CARDS, VISA AND INSURANCE RECEIPT. THIS WILL BE REQUIRED BY US FOR DISBURSING THE PER-DIEMS.

7. Important Contacts:

Mr. Nitin Sabikhi: Manager (IEX)

Phone : +91- 9654125157

Tel: (UK) +44 7726685844

Mr.Rajiv Ratna Panda,

Sr. Project Manager, SARI/EI

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Mr. Ronald Van Megen

Credit Risk Consultancy | Global

Mobile: +31 624 966 318

Email: Megen@NavitasResources.com

Hotel Address:

NH Amsterdam Centre

Hotel NH Amsterdam Centre

Stadhouderskade 7

Amsterdam, Netherlands

Tel: +31 20 685 1351

Novotel Paris

17 Porte d'Asnières

34 Avenue de la Porte d'Asnières, 75017 Paris, France

Phone: +33 1 44 40 52 52

8. Important contacts at IRADe:

Mr. V. K. Kharbanda

Project Director

SARI/EI, IRADe

Mobile: +91-9560004227, 00 44 7452097199

Mr. Rajiv Ratna Panda

Senior Project Manager, SARI/EI, IRADe

Mobile: +91-9958126333, 00 44 745209719, rajivpanda@irade.org

9. Details of the Site Visits:

- **Site Visits**

1. **APX Group (Power Exchange) (PX)**

PO Box 12628 | 1100 AP | AMSTERDAM | The Netherlands

Atlas Arena Amsterdam | Australia Building | Hoogoorddreef 7 | 1101 BA | Amsterdam | The Netherlands

2. **TenneT TSO B.V.**

Utrechtseweg 310 , Arnhem, Postbus 718 , 6800

Mr. Jan Vorrink, Manager National Control Center

T +31 (026) 373 13 78, E Jan.Vorrink@tennet.eu , www.tennet.eu

3. **EPEX SPOT**

5 boulevard Montmartre • 75002 Paris (France)

Dr. Sandrine Wachon

Head of International Business Development

Tel +33 (0)1 73 03 61 74 • Cell +33 6 16 60 02 43

E-Mail s.wachon@epexspot.com • Web www.epexspot.com

4. **Powernext**

5 boulevard Montmartre • 75002 Paris (France)

5. **RTE France**

1Terrasse Bellini

TSA 41000

92919 LA DEFENCE Cedax

France +33 (0) 141 021000

Mr. Bruno Malih

M:E: bruno.mailh@rte-france.com

Visit	Travel Detail
Pick up from airport(Amsterdam)	Taxi /Coach has been arranged based on the itinerary
Site Visit 1: APX	Travel by Coach
Site visit 2: TenneT	Travel by Coach (Participants to carry passports)
Travel to Paris	By Train
Site Visit 3&4: EPEX Spot & PowerNext	Travel by Coach
Site Visit 5: RTE	Travel by Coach
Site Visit 6: Alstom Grid	Travel by Coach
Airport Drop(Paris)	Taxi /Coach has been arranged based on the itinerary

10. Weather Details

AMSTERDAM

Date	Day	City	Temperature (Degree C)	Forecast
13 July 2014,	Sunday	Amsterdam	23	Partly sunny
14 July 2014	Monday	Amsterdam	24	Partly sunny
15 July 2014	Tuesday	Amsterdam	23	Cloudy with a shower
16 July 2014	Wednesday	Amsterdam	26	Sunny & Warm
17 July 2014	Thursday	Amsterdam	26	Sunny & Warm

Weather Details: PARIS

Date	Day	City	Temperature (Degree C) Max	Temperature (Degree C) Min	Forecast
18 July ,2014	Friday	Paris	29	18	Sunny & Humid
19 July 2014	Saturday	Paris	24	19	Cloudy
20 July 2014	Sunday	Paris	22	17	Cloudy with shower