

***Technical University of Sofia***

***Prof. Dr. Ivan Ivanov***

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- ▣ TUS is the oldest (70 years) and biggest Bulgarian technical higher school with more than 12000 students.
- ▣ TUS provides Bach, Master and PhD degrees in the fields of electrical power engineering, thermal- and nuclear power engineering, computer sciences, electronic, transport, etc.
- ▣ TUS has national role for the distribution of electrical and power engineering, transport and other knowledge, and for development of the Energy, RES and Industrial Research Areas in Bulgaria.

The Research and Development Sector (R&D Sector) of TUS organizes, administrates and services of the research activities of TUS.



## The Safety and Environmental & Engineering Laboratory (SE&EL) at the Electrical Faculty



is specialized in research and projects' implementation in the fields of:  
**Environmental Impact Assessment (EIA); GHG emission assessment; Smart Energy Systems and Smart Cities; Safety and Risk Analysis and Studies in the fields of Energy, Transport and Renewable Energy Sources, etc.**

The Head of **SE&EL** Prof. Dr. Ivan Ivanov is simultaneously a CEO of **"IVECOL CONSULT" Ltd.** (IVECOL) - a SME registered in Sofia, 1991.

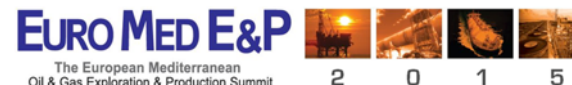


# Our research activities and further interest

With our team of Professors, PhDs and high level researchers and experts we have completed over 60 projects in the 5FP, 6FP, 7FP and other EC' Programs and in Bulgaria in the fields of energy and industrial sectors.



Prof. Dr. Ivan Ivanov has speeches and papers in worldwide summits and conferences in different countries in Europe, Nord and South America, Asia and Africa. He is a Senior Expert of APCEO „Asia-Pacific CEO Association Worldwide”, Member of Global Science and Technology Forum (GSTF), etc.



**Our priority research interest now is a in the fields of smart energy systems and smart, sustainable and resilient cities' development.**

Of course in the all other above indicated fields of our experience and expertise we also have continued interest.



**So, depend of the interest of the potential coordinator and for a balance in the consortium concerning the types of the partners, as Bulgarian partner in H2020' or other projects could be involved as university - TU-Sofia / SE&EL or as SME - “IVECOL CONSULT” Ltd.**

**Default in both cases person in charge will be Prof. Dr. Ivan Ivanov.**

**CALL TOPIC: “Smart Energy Systems and Consumers”**



**PROJECT IDEA: Smart energy bridges between smart energy islands on the way Turkey-Bulgaria-EU for flexible, safe and environmentally energy supplies to consumers**

- **Objectives:**

- to select of interested Smart Energy Islands/Municipalities in Turkey, Bulgaria and other 2-3 or more European countries and other Municipalities or Regions, which have an interest and potential to develop smart, sustainable and resilient cities, each presented with relevant partner(s) in the project.
- to create of model and roadmap for application of smart energy system approach and environmentally, safe and efficient development of innovative practical opportunities to cover significant part of the energy needs of the participated Smart Energy Islands/Municipalities.
- To create a model for development of the existing energy interconnections in smart energy interconnections between Turkey, Bulgaria and other European countries.
- to multiply the smart energy system approach in other Municipalities and Regions in Turkey, Bulgaria and other European countries.

- **Expected results:**

- Model and roadmap for application of smart energy system approach and environmentally, safe and efficient development of innovative practical opportunities to cover significant part of the energy needs of the participated Smart Energy Islands/Municipalities in the project.
- Using of available electricity interconnections and different renewable sources in the specific case to build new or convert existing energy capacities, with involvement of energy storage technologies and smart grids, rationally integrated with the central energy systems for electrical supply.

# Consortium - profile of known partners *(if any)*



No	Partner Name	Type	Country	Role in the Project
01	Technical University of Sofia (TUS) <b>or</b>	RTD	Bulgaria	Coordinator or Partner
02	“IVECOL CONSULT” Ltd.	SME	Bulgaria	Coordinator or Partner
03		IND		
04				
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# Consortium - required partners



No	Expertise	Type	Country	Role in the project
01	R&DI experience with efficient solutions for Smart Energy Systems	RTD	Turkey, Greece, Italy, Spain, France, Croatia and other	Partners.If there is interest is possible eventual coordinator from other country instead Bulgaria
02	Tech transfer, development and market sustainable and efficient solutions for Smart Energy Systems	SME	Turkey, Greece, Italy, Spain, France, Croatia and other	Partners.If there is interest is possible eventual coordinator from other country instead Bulgaria
03	Relevant to the idea of the project or related interest, competences and qualifications, including for discussion and initiating of other projects	R T D , SME IND	Turkey, Greece, Italy, Spain, France, Croatia and other	

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# Recommendations

- The presentation **has to** last up to **4 minutes (maximum)**
- Do not overload your slides
- Provide weblinks to additional material
- Slides should be in English
- Do not use videos etc. – they might be not supported by the Infoday IT system
- Send your presentations in PDF format to: [CoF@turkeyinh2020.eu](mailto:CoF@turkeyinh2020.eu) until 23 September 2016.