

International Brokerage Event
Brussels, 26-27/10/2017



TUBITAK MAM
Abdulahad Özdemir
abdulahad.ozdemir@tubitak.gov.tr

Description of the Organization

TUBITAK MAM & Energy Institute



INFRASTRUCTURE

Laboratory
213



PERSONNEL

R&D
73%
TOTAL **942**



PROJECTS

Ongoing
208

Energy Institute working areas,

**POWER ELECTRONICS
AND CONTROL
TECHNOLOGIES**

**FOSSIL FUEL
TECHNOLOGIES**

**ALTERNATIVE /
RENEWABLE ENERGY
TECHNOLOGIES**

**TRANSPORTATION
TECHNOLOGIES**

EU Projects



Energy Institute

1. 5TOI_4EWAS (H2020)
2. BIOMASUD PLUS (H2020)
3. CITYFIED (FP7)
4. IRP-WIND (FP7)
5. ETRERA 2020 (FP7)
6. ELECTRA (FP7)
7. BRISK (FP7)
8. MCFC-CONTEX (CP) (FP7)
9. TyGre (CP) (FP7)
10. EPHESTUS (CP) (FP6)
11. MC-WAP (IP) (FP6)
12. TERMISOL (STREP) (FP6)
13. EU-DEEP (IP) (FP6)
14. NATURALHY (IP) (FP6)
15. CASES (FP6)
16. HYPROSTORE (FP6)
17. BIGPOWER (FP6)
18. NETBIOCOF (FP6)
19. MOCAMI (FP5)
20. IRMATECH (FP5)
21. BIOCOGEN (FP5)

Food Institute

1. Quality Low Input Food (IP)
2. HEATOX (STREP)
3. SAFEFOODERA (CA)
4. FOODLINK (SSA)
5. MYCOGLOBE
6. EUROFIR (NoE)
7. FERBEV (CRAFT)
8. SAFEFOODNET (SSA)
9. MONIQA (NoE)
10. SAFETechnoPACK (REGPOT)
11. MYCORED (CP)
12. EAST-NMR (CP)
13. APIFRESH (CP)
14. EuroFIR-Nexus
15. GREENFOODEC
16. TDS EXPOSURE
17. RESFOOD
18. MycoKey (HORIZON 2020)
19. PRO-METROFOOD (HORIZON 2020)

Environment and Cleaner Prod. Institute

1. ANVOC (SSA)
2. SPICOSA (IP)
3. PREPARED (CP)
4. HEISST (CP)
5. PROMITHEAS-4 (CSA)
6. SEAS-ERA (CP)
7. SeaDataNet II
8. MicroB3
9. EUROFLEETS2
10. IRIS-SES

Materials Institute

1. NanoStrBioSens
2. PRIMA-ERA
3. LBL OF CNTS FOR SCS
4. URBAN-EV
5. CHEETAH
6. UNDERWATER ACOUSTIC (EURAMET)

Earth and Marine Sciences Institute

1. FORESIGHT (STREP)
2. SCHEMA (STREP)
3. BlackSeaHazNet (IRSES)
4. EPOS (CP-CSA)
5. PRE-EARTHQUAKES (CP)
6. MARSITE

Genetic Eng. And Biotech. Institute

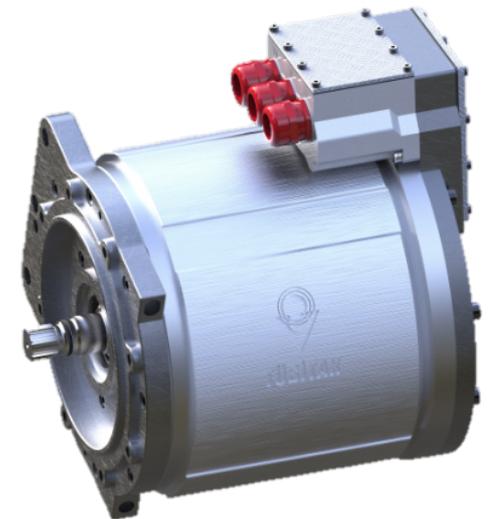
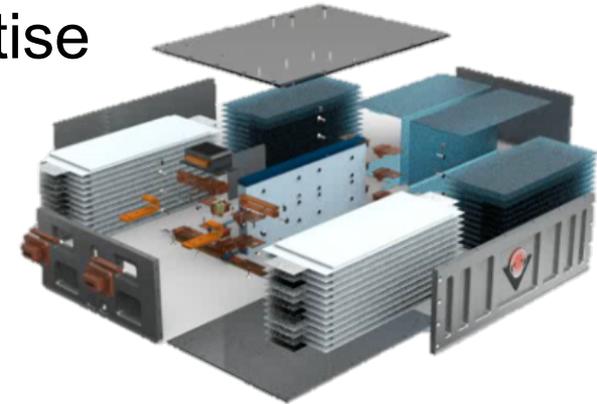
1. FAD (IP)
2. BRIDGE (CP)
3. BioWaste4SP

Chemical Technology Institute

1. ALUSALT

Automotive Technologies Group

- Automotive Technologies Group Expertise
 - Energy Storage Systems
 - Thermal Management
 - Internal Combustion Engine
 - Electric Powertrain
 - CAD/CAE
 - Vehicle Integration
 - Chassis/Body
 - Vehicle Electronics
 - Component and Vehicle Level Testing
 - Homologation



Automotive Technologies Group - Infrastructures

EM Dynamometer



Battery Testing



Vehicle
Dyno

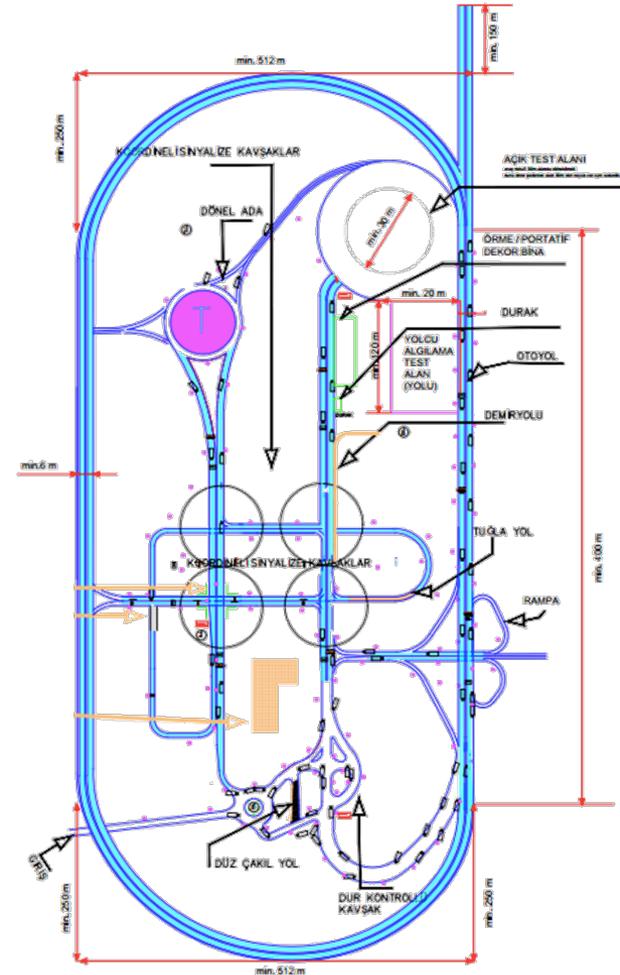


ICE
Dynamometer

Automotive Technologies Group - Infrastructures

Smart Mobility Test Center is anticipated to be built in the following years which will be capable of developing/testing;

- Autonomous and Semi-Autonomous Vehicle Systems
- Advanced Driver Assistance Systems
- Traffic Management Systems
- Planned Public Transportation
- Electronic Toll Collection



Smart Mobility Cluster



- Smart Mobility Clustering is coordinated by TUBITAK MAM with 103 active members including Universities, Research Centers, Industry Chambers, Agencies, OEMs, Suppliers and Engineering Companies.
- Working areas;
 - Electromobility
 - Autonomous Vehicles
 - V2X Systems
 - Smart Transportation Management Systems
 - E-Charge Infrastructures

TUBITAK MAM's working areas and infrastructures are related with the call topics;

-DT-ART-01-2018: Testing, validation and certification procedures for highly automated driving functions under various traffic scenarios based on pilot test data

-DT-ART-02-2018: Support for networking activities and impact assessment for road automation

-DT-ART-04-2019: Developing and testing shared, connected and cooperative automated vehicle fleets in urban areas for the mobility of all

-LC-MG-1-2-2018: Sustainable multi-modal inter-urban transport, regional mobility and spatial planning

-LC-MG-1-10-2019: Logistics solutions that deal with requirements of the 'on demand economy' and for shared-connected and low-emission logistics operations

-MG-3-3-2018: "Driver" behaviour and acceptance of connected, cooperative and automated transport

-LC-GV-04-2019: Low-emissions propulsion for long-distance trucks and coaches

Abdulahad Özdemir
TUBITAK MAM
Energy Institute
TURKEY

+90 262 643 0462 / 2412

abdulahad.ozdemir@tubitak.gov.tr

<http://www.mam.tubitak.gov.tr/en>

Please add relevant 2017 CALL TOPIC
Please add TITLE of the PROJECT IDEA



- Objectives:
 - to ...
 - to ...

- Expected results
 - ...
 - ...

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



| No | Partner Name | Type | Country | Role in the Project |
|----|--------------|------|---------|---------------------|
| 01 | | RTD | | |
| 02 | | SME | | |
| 03 | | IND | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |

Consortium - required partners



| No | Expertise | Type | Country | Role in the project |
|----|-----------|------|---------|---------------------|
| 01 | | RTD | | |
| 02 | | SME | | |
| 03 | | IND | | |
| 04 | | | | |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |

BACK UP

Facility Certificates



National Secret Facility Security Clearance
NATO Secret Facility Security Clearance
Production Permit from the Ministry of National Defense



ISO 14001-2004
Environmental Management System Certificate

ISO 9001-2008
Quality Management System



EFQM
Excellence Award

ISO 17025
Accreditation of Laboratory Services



Completed EU Projects - EE



Energy, Water and Agriculture in the South Mediterranean Neighbourhood

5TOI_4EWAS (H2020) Quintuple Helix Approach to Targeted Open Innovation In Energy, Water, Agriculture in the South Mediterranean Neighborhood



BIOMASUD Plus (H2020) - Developing the sustainable market of residential Mediterranean solid biofuels



CITUFIED (7th FP) - RepliCable and InnovaTive Future Efficient Districts and cities

ETRERA 2020 (7th FP) – Empowering Trans-Mediterranean Renewable Energy Research Alliance for Europe 2020 Challenges

ELECTRA (7th FP) - European Liaison on Electricity Committed Towards long-term Research Activities for Smart Grids

IRPWIND (7th FP) –Integrated Research Program on Wind Energy



BRISK (7th FP) European Research Infrastructure for Thermochemical Biomass Conversion



MCFC-CONTEX (7th FP) Effects of CONtaminants in biogenous fuels on MCFC catalyst and stack component degradation and lifetime and EXtraction



TYGRE (7th FP) High Added Value Materials From Waste Tyre Gasification Residues



AB-E2PHEST2US (7th FP) -Enhanced Energy Production of Heat And Electricity By a Combined Solar Thermionic-Thermoelectric Unit System



MC-WAP (6th FP) Molten-Carbonate Fuel Cells For Water Borne Applications



EU-DEEP (6th FP) The Birth of A European Distributed Energy Partnership That Will Help The Large-Scale Implementation of Distributed Energy Resources in Europe



NATURAL-HY (6th FP) Preparing for the hydrogen economy by using the existing natural gas system as a catalyst.

Ongoing EU Projects - EE

- ✓ **HYPROSTORE** (6th FP) Improving of the S&T Research Capacity of TUBITAK MRC IE in the Fields of Hydrogen Technologies
- ✓ **BIGPOWER** (6th FP) Improving of the S&T Research Capacity of TUBITAK MRC IE in the Fields of Integrated Biomass Gasification with Power Technologies
- ✓ **NETBIOCOF** (6th FP) Integrated European Network For Biomass Co-Firing
- ✓ **CASES** (6th FP) Cost Assessment Sustainable Energy Systems
- ✓ **MOCAMI** (5th FP) Development and demonstration of a small-sized hybrid system with the combination of the MCFC technology and a micro-turbine
- ✓ **IRMATECH** (5th FP) Integrated Research on Materials, Clean and efficient energy Technologies and processes to enhance MCFC in a sustainable development
- ✓ **BIOCOGEN** (5th FP) Biomass Cogeneration Network



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 until **23 September 2016.**